

### **AC losses analysis approaches for electric vehicle motors with hairpin winding configuration**

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Marques Cardoso, Antonio J.; **Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas** IECON 2021 - 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-4 : ill <https://doi.org/10.1109/IECON48115.2021.9589339> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **AC magnetic loss reduction of SLM processed Fe-Si for additive manufacturing of electrical machines**

Tiismus, Hans; **Kallaste, Ants; Belahcen, Anouar; Tarraste, Marek; Vaimann, Toomas; Rassõlkin, Anton; Asad, Bilal; Ghahfarokhi, Payam Shams** Energies 2021 / 13 p. : ill <https://doi.org/10.3390/en14051241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Accessibility and system reduction of nonlinear time-delay control systems**

Bartosiewicz, Zbigniew; **Kaldmäe, Arvo; Kawano, Yu; Kotta, Ülle; Pawluszewicz, Ewa; Simha, Ashutosh; Wyrwas, Małgorzata** IEEE Transactions on Automatic Control 2021 / p. 3781-3788 <https://doi.org/10.1109/TAC.2020.3028566> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Accessible battery model with aging dependency**

Savard, Christophe; Iakovleva, Emilia; Ivanchenko, Daniil; **Rassõlkin, Anton** Energies 2021 / art. 3493, 16 p <https://doi.org/10.3390/en14123493> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Accommodation to defects in the discrete dynamic systems**

Zhirabok, Alexey N.; **Kotta, Ülle; Shumsky, A. E.** Automation and remote control 2014 / p. 997-1009 : ill <https://doi.org/10.1134/S0005117914060010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Achieving of Magnus effect with Agros Suite**

**Lukin, Aleksandr; Demidova, Galina; Rassõlkin, Anton** Periodica polytechnica electrical engineering and computer science 2021 / p. 131-137 : ill <https://doi.org/10.3311/PPee.17743> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Acoustic forward model for guided wave propagation and scattering in a pipe bend**

**Rasgado Moreno, Carlos Omar; Rist, Marek; Land, Raul; Ratassepp, Madis** Sensors 2022 / art. 486 <https://doi.org/10.3390/s22020486> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Acoustic noise computation of electrical motors using the boundary element method**

Sathyan, Sabin; Aydin, Ugur; **Belahcen, Anouar** Energies 2020 / art. 0245 <https://doi.org/10.3390/en13010245> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Acoustic spectrum analysis of genuine and counterfeit euro coins**

**Gavrijaševa, Alina; Märtens, Olev; Land, Raul** Elektronika ir elektrotechnika = Electronics and electrical engineering 2015 / p. 54-57 : ill <https://doi.org/10.5755/j01.eee.21.3.10384> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Active power electronic transformer based on modular building blocks**

**Roasto, Indrek; Romero-Cadaval, Enrique; Martins, Joao** Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5922-5927 : ill <https://doi.org/10.1109/IECON.2013.6700106> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **The Activities of IGIP**

Polyakova, Tatiana; Prikhodko, Viacheslav; **Rüütmann, Tiia; Auer, Michael E.** The International Society for Engineering Pedagogy: 1972-2022 2023 / p. 33-146 [https://doi.org/10.1007/978-3-031-19890-8\\_2](https://doi.org/10.1007/978-3-031-19890-8_2) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **AdAM: adaptive fault-tolerant approximate multiplier for edge DNN accelerators**

**Taheri, Mahdi; Cherezova, Natalia; Nazari, Samira; Rafiq, Ahsan; Azarpeyvand, Ali; Ghasempouri, Tara; Daneshtalab, Masoud; Raik, Jaan; Jenihhin, Maksim** 2024 IEEE European Test Symposium (ETS): ETS 2024 : May 20-24, 2024, The Hague, Netherlands : proceedings 2024 <https://doi.org/10.1109/ETS61313.2024.10567161> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Adaptive LINE-P : an adaptive linear energy prediction model for wireless sensor network nodes**

Ahmed, Faisal; **Tamberg, Gert; Le Moullec, Yannick; Annus, Paul** Sensors 2018 / art. 1105, 26 p. : ill <https://doi.org/10.3390/s18041105> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Adaptive LQR controller for Networked Control Systems subjected to random communication delays**

**Srinivasan, Seshadri; Vallabhan, Mishiga; Ramaswamy, Srin; Kotta, Ülle** American Control Conference (ACC), 2013 : 17 - 19 June 2013, Washington, DC, USA (2013) 2013 / p. 783 - 787 <https://doi.org/10.1109/acc.2013.6579931> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Adaptive ventilation for climate control in a medieval church in cold climate**

**Napp, Margus; Wessberg, Magnus; Kalamees, Targo; Broström, Tor** International journal of ventilation 2016 / p. 1-14 : ill

**Additive Manufacturing and Performance of E-Type Transformer Core**

**Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Rassõlkin, Anton; Vaimann, Toomas; Ghahfarokhi, Payam Shams** Energies 2021 / art. 3278 <https://doi.org/10.3390/en14113278> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Additive manufacturing of electrical machines - towards the industrial use of a novel technology**

**Vaimann, Toomas; Kallaste, Ants** Energies 2023 / art. 544 <https://doi.org/10.3390/en16010544> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Adjoint polynomial formulas for nonlinear state-space realization**

**Belikov, Juri; Kotta, Ülle; Tönso, Maris** IEEE transactions on automatic control 2014 / p. 256-261 <https://doi.org/10.1109/TAC.2013.2270868> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**An advanced diagnostic approach for broken rotor bar detection and classification in DTC controlled induction motors by leveraging dynamic SHAP interaction feature selection (DSHAP-IFS) GBDT methodology**

**Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants** Machines 2024 / art. 495 <https://doi.org/10.3390/machines12070495> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Advances in climatic form finding in architecture and urban design**

**De Luca, Francesco** Energies 2023 / art. 3935 <https://doi.org/10.3390/en16093935> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Aggregation ready flexibility management methods for mechanical ventilation systems in buildings**

**Maask, Vahur; Rosin, Argo; Korõtko, Tarmo; Thalfeldt, Martin; Syri, Sanna; Ahmadiyahangar, Roya** Energy and buildings 2023 / art. 113369, 14 p. : ill <https://doi.org/10.1016/j.enbuild.2023.113369> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Air distribution and air handling unit configuration effects on energy performance in an air-heated ice rink arena**

**Taebnia, Mehdi; Toomla, Sander; Leppä, Lauri; Kurnitski, Jarek** Energies 2019 / art. 693, 21 p. : ill <https://doi.org/10.3390/en12040693> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Airtightness, air exchange and energy performance in historic residential buildings with different structures**

**Eskola, Lari; Alev, Üllar; Arumägi, Endrik; Jokisalo, Juha; Donarelli, Anna; Sirén, Kai; Kalamees, Targo** International journal of ventilation 2015 / p. 11-26 : ill <https://doi.org/10.1080/14733315.2015.11684066> Journal metrics at Scopus Article at Scopus

**Algebraic approach for analysis and control of a water tank system**

**Belikov, Juri; Kotta, Ülle; Tepljakov, Aleksei** Information technology and control 2016 / p. 175-183 : ill <https://doi.org/10.5755/j01.itc.45.2.13212> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**An algorithm to transform discrete-time state equations into the extended observer form**

**Kaldmäe, Arvo; Kotta, Ülle** Automatica 2024 / art. 111598 <https://doi.org/10.1016/j.automatica.2024.111598> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**All-solution-processed transparent front contact for monograin layer kesterite solar cells**

**Edinger, Stefan; Bansal, Neha; Wibowo, Adhi Rachmat; Winkler, Nina; Illich, Peter; Zechmeister, Armin; Plessing, Lukas; Meissner, Dieter** Progress in photovoltaics : research and applications 2019 / p. 547-555 <https://doi.org/10.1002/ppp.3122> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Ambient data-based online identification and location of frequency oscillations**

**Cai, Guowei; Xuan, Lei; Sun, Zhenglong; Chao, Jiang; Belikov, Juri; Levron, Yoash** International Journal of Electrical Power and Energy Systems 2024 / art. 109843 <https://doi.org/10.1016/j.ijepes.2024.109843> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Ammonia production as alternative energy for the Baltic Sea Region**

**Prause, Gunnar Klaus; Olaniyi, Eunice Omolola; Gerstlberger, Wolfgang Dieter** Energies 2023 / art. 1831 <https://doi.org/10.3390/en16041831> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**An expectation-based approach to policy-based security of the Border Gateway Protocol**

**Li, Jun; Stein, Josh; Zhang, Mingwei; Maennel, Olaf Manuel** 2016 IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS) : GI 2016 : IEEE Global Internet Symposium : April 10-14, 2016, San Francisco, CA, USA 2016 / p. 340-345 : ill <https://doi.org/10.1109/INFCOMW.2016.7562098> Conference Proceedings at Scopus Article at Scopus Article at WOS

**An indirect adaptive control paradigm for wind generation systems**

**Kamal, Tariq; Karabacak, Murat; Hassan, Syed Zulqadar; Fernández Ramírez, Luis M.; Roasto, Indrek; Khan, Laiq** Advanced control

and optimization paradigms for wind energy systems 2019 / p. 235-257 [https://doi.org/10.1007/978-981-13-5995-8\\_10](https://doi.org/10.1007/978-981-13-5995-8_10) [Article collection metrics at Scopus](#) [Article at Scopus](#)

**An integrated electroactive polymer sensor-actuator : design, model-based control, and performance characterization**  
**Hunt, Andres;** Chen, Zheng; Tan, K.; **Kruusmaa, Maarja** Smart materials and structures 2016 / art. 035016, p. 1-16 : ill  
<https://doi.org/10.1088/0964-1726/25/3/035016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An interleaved ZVS high step-up converter for renewable energy systems applications**  
Nouri, Tohid; Branch, Sari; Shانه, Mahdi; Benbouzid, Mohamed; **Vosoughi Kurdkandi, Naser** IEEE Transactions on Industrial Electronics 2022 / p. 4786-4800 <https://doi.org/10.1109/TIE.2021.3080211> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An optimization framework for dynamic pipeline management in computing systems**  
Naqvi, Syed Rameez; Zahid, Anjum; Sawalha, Lina; **Jenihhin, Maksim** Computers & electrical engineering 2019 / p. 242-258 : ill  
<https://doi.org/10.1016/j.compeleceng.2019.07.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An SVM scheme for three-level quasi-switched boost T-type inverter with Enhanced voltage gain and capacitor voltage balance**  
Tran, Vinh-Thanh; Nguyen, Minh-Khai; Do, Duc-Tri; **Vinnikov, Dmitri** IEEE transactions on power electronics 2021 / p. 11499-11508  
<https://doi.org/10.1109/TPEL.2021.3071011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analysis of a flywheel storage system for ultra-fast charging station of electric vehicles with regard to electric machine design and operational speed range**  
Dziechciaruk, Grzegorz; Grzesiak, Lech; Vezzini, Andrea; **Höimoja, Hardi** Przegląd Elektrotechniczny = Electrical Review 2013 / [7] p. :ill [https://www.researchgate.net/publication/288576180\\_Analysis\\_of\\_a\\_flywheel\\_storage\\_system\\_for\\_ultra-fast\\_charging\\_station\\_of\\_electric\\_vehicles\\_with\\_regard\\_to\\_electric\\_machine\\_design\\_and\\_operational\\_speed\\_range](https://www.researchgate.net/publication/288576180_Analysis_of_a_flywheel_storage_system_for_ultra-fast_charging_station_of_electric_vehicles_with_regard_to_electric_machine_design_and_operational_speed_range) [Journal metrics at Scopus](#) [Article at Scopus](#)

**Analysis of black start strategies for microgrids with renewable distributed generation**  
**Armstorfer, Andreas;** Biechl, Helmut; **Rosin, Argo** IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 2121-2125 : ill <https://doi.org/10.1109/IECON.2019.8926631> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Analysis of deep level centers in GaAs pin-diode structures**  
**Korolkov, Oleg;** Toompuu, Jana; Rang, Toomas Elektronika ir elektrotehnika = Electronics and electrical engineering 2013 / [4 p. ] : ill <https://doi.org/10.5755/j01.eee.19.10.5903> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analysis of electromagnetic force ripple in a bearingless synchronous reluctance motor**  
Mukherjee, Victor; Rasilo, Paavo; Martin, Florian; **Belahcen, Anouar** IEEE transactions on magnetics 2021 / art. 9277612, 8 p. : ill  
<https://doi.org/10.1109/TMAG.2020.3041703> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analysis of fault-tolerant operation capabilities of an isolated bidirectional current-source DC-DC converter**  
**Blinov, Andrei;** Kosenko, Roman; Chub, Andrii; Ivakhno, Volodymyr Energies 2019 / art. 3203, p. 14 : ill  
<https://doi.org/10.3390/en12163203> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analysis of historical MERIS and MODIS data to evaluate the impact of dredging to monthly mean surface TSM concentration**  
**Raag, Laura;** Uiboupin, Rivo; Sipelgas, Liis Remote sensing of the ocean, sea ice, coastal waters, and large water regions 2013 : 24 September 2013, Dresden, Germany 2013 / art. 88880B <https://doi.org/10.1117/12.2032327> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Analysis of holdup time for DC grid-forming isolated active front-end converters**  
**Carvalho da Silva, Edivan Laercio;** Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6 <https://doi.org/10.1109/IECON49645.2022.9969075> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Analysis of keyword spotting performance across IARPA Babel languages**  
Hartmann, William; Karakos, Damianos; Hsiao, Roger; Zhang, Le; **Alumäe, Tanel;** Tsakalidis, Stavros; Schwartz, Richard 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 5765-5769 : ill <https://doi.org/10.1109/ICASSP.2017.7953261> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Analysis of the vibration magnitude of an induction motor with different numbers of broken bars**  
Martinez, Javier; **Belahcen, Anouar;** Muetze, Annette IEEE transactions on industry applications 2017 / p. 2711-2720 : ill  
<https://doi.org/10.1109/TIA.2017.2657478> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analysis of traditional and alternative methods for solving voltage problems in low voltage grids : an Estonian case study**  
**Rosin, Argo; Drovitar, Imre; Mölder, Heigo; Haabel, Kaija; Astapov, Victor; Vinnal, Toomas; Korõtko, Tarmo** Energies 2022 / art. 1104 <https://doi.org/10.3390/en15031104> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analysis of ventilation load flexibility depending on indoor climate conditions**

**Maask, Vahur; Häring, Tobias; Ahmadihangar, Roya; Rosin, Argo; Korõtko, Tarmo** 2020 IEEE International Conference on Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 607-612 <https://doi.org/10.1109/CIT45562.2020.9067153> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Analytical approach for maximizing self-consumption of nearly zero energy buildings- case study : Baltic region**

**Ahmadihangar, Roya; Karami, Hossein; Husev, Oleksandr; Blinov, Andrei; Rosin, Argo; Jonaitis, Audrius; Sanjari, Mohammad Javad** Energy 2022 / art. 121744, 11 p. : ill <https://doi.org/10.1016/j.energy.2021.121744> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analytical modelling and prediction formulas for domestic hot water consumption in residential Finnish apartments**

**Ferrantelli, Andrea; Ahmed, Kaiser; Pylsy, Petri; Kurnitski, Jarek** Energy and buildings 2017 / p. 53-60 : ill <https://doi.org/10.1016/j.enbuild.2017.03.021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analytical modelling of synchronous reluctance motor including non-linear magnetic condition**

**Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton** IET electric power applications 2022 / p. 511-524 <https://doi.org/10.1049/elp2.12172> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analytical thermal model and flow network analysis suitable for open self-ventilated machines**

**Shams Ghahfarokhi, Payam; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas** IET Electric Power Applications 2020 / p. 929-936 : ill <https://doi.org/10.1049/iet-epa.2019.1020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Anisotropic and strain-dependent model of magnetostriction in electrical steel sheets**

**Belahcen, Anouar; Singh, Deepak; Rasilo, Paavo; Martin, Floran; Ghalamestani, Setareh Gorji; Vandevelde, Lieven** IEEE transactions on magnetics 2015 / p. 200-204 : ill <https://doi.org/10.1109/TMAG.2014.2361681> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Anomaly detection and classification in power system state estimation: Combining model-based and data-driven methods**

**Asefi, Sajjad; Mitrovic, Mile; Cetenovic, Dragan; Levi, Victor; Gryazina, Elena; Terzija, Vladimir** Sustainable energy, grids and networks 2023 / art. 101116, 14 p. : ill <https://doi.org/10.1016/j.segan.2023.101116> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Antidictionary-based cardiac arrhythmia classification for smart ECG sensors**

Duforest, Julien; Larras, Benoit; Frappe, Antoine; Deepu, John Deepu; **Märtens, Olev** 2022 IEEE International Symposium on Circuits and Systems (ISCAS) : proceedings 2022 / p. 414-418 : ill <https://doi.org/10.1109/ISCAS48785.2022.9937853> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Any dynamical system is fully accessible through one single actuator and related problems**

Kawano, Yu; **Kotta, Ülle**; Moog, Claude International journal of robust and nonlinear control 2016 / p. 1748-1754 <https://doi.org/10.1002/rnc.3379> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Application of an advanced repetitive controller to mitigate harmonics in MMC with APOD scheme**

Madichetty, Sreedhar; Dasgupta, Abhijit; **Mishra, Sambeet**; Panigrahi, Chinmoy Kumar; Basha, Ghouse IEEE transactions on power electronics 2016 / p. 6112-6121 : ill <https://doi.org/10.1109/TPEL.2015.2501314> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Application of cycle skipping modulation in buck-boost photovoltaic microconverters**

**Maheri, Hamed Mashinchi; Vinnikov, Dmitri; Chub, Andrii; Sidorov, Vadim; Galkin, Ilja** IEEE transactions on industry applications 2022 / p. 4804-4815 <https://doi.org/10.1109/TIA.2022.3163083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Application of extensible processing platforms for experiments with FPGA-based circuits**

Sklyarov, Valery; Skliarova, Ioulia; Silva, João; **Rjabov, Artjom; Sudnitsõn, Aleksander** MELECON 2014 : 2014 17th IEEE Mediterranean Electrotechnical Conference : 13-16 April 2014, Beirut, Lebanon 2014 / p. 467-471 : ill <https://doi.org/10.1109/MELCON.2014.6820579> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Applications of game theory to design and operation of modern power systems: a comprehensive review**

Navon, Aviad; Yosef, Gefen Ben; Machlev, Ram; Shapira, Shmuel; Chowdhury, Nilanjan Roy; **Belikov, Juri**; Orda, Ariel; Levron, Yoash Energies 2020 / art. 3982, 34 p <https://doi.org/10.3390/en13153982> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)



[at WOS](#) [Article at WOS](#)

**Aqueous bromide oxidized with pulsed corona discharge**

**Petrotsenko, Irina; Preis, Sergei** Journal of electrostatics 2024 / art. 103978, 9 p. : ill <https://doi.org/10.1016/j.elstat.2024.103978>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Aqueous mineral carbonation of oil shale mine waste (limestone) : a feasibility study to develop a CO2 capture sorbent**

**Puthiya Veetil, Sanoop Kumar; Rebane, Kaarel; Yörük, Can Rüstü; Lopp, Margus; Trikkel, Andres; Hitch, Michael William** Energy 2021 / art. 119895 <https://doi.org/10.1016/j.energy.2021.119895> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Areeba : an area efficient binary huff-curve architecture**

**Sajid, Asher; Rashid, Muhammad; Jamal, Sajjad Shaukat; Imran, Malik; Alotaibi, Saud S.; Sinky, Mohammed H.** Electronics (Switzerland) 2021 / art. 1490 <https://doi.org/10.3390/electronics10121490> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ash and flue gas from oil shale oxy-fuel circulating fluidized bed combustion**

**Loo, Lauri; Konist, Alar; Nešumajev, Dmitri; Pihu, Tõnu; Maaten, Birgit; Siirde, Andres** Energies 2018 / art. 1218, 12 p. : ill <https://doi.org/10.3390/en11051218> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Assessment of mixed energy storage system considering high spatial resolution data from a real PV installation**

**Rogowski, Szymon; Hasan, Sayeed; Chub, Andrii; Sibinski, Maciej** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737964> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Assessment of power system asset dispatch under different local energy community business models**

**Korötko, Tarmo; Plaum, Freddy; Häring, Tobias; Mutule, Anna; Lazdins, Roberts; Boršcevis, Olegs; Rosin, Argo; Carroll, Paula** Energies 2023 / art. 3476 <https://doi.org/10.3390/en16083476> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Atomic layer deposition of alumina on g-Al<sub>2</sub>O<sub>3</sub> nanofibres**

**Jõgiaas, Taivo; Arroval, Tõnis; Kollo, Lauri; Hussainova, Irina** Physica status solidi (a) : applications and materials science 2014 / p. 403-408 : ill <https://doi.org/10.1002/pssa.201330083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**At-speed testing of inter-die connections of 3D-SICs in the presence of shore logic**

**Shibin, Konstantin; Chickermane, Vivek; Keller, Brion; Papamaleitis, Christos; Marinissen, Erik Jan** 2015 Asian Test Symposium : ATS 2015 : 22-25 November 2015, Mumbai, Maharashtra, India : proceedings 2015 / p. 79-84 : ill <https://doi.org/10.1109/ATS.2015.21>  
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Automated design error localization in RTL designs**

**Jenihhin, Maksim; Tšepurov, Anton; Tihomirov, Valentin; Raik, Jaan; Hantson, Hanno; Ubar, Raimund-Johannes; Bartsch, Günter; Meza Escobar, Jorge Hernan; Wuttke, Heinz-Dietrich** IEEE design & test of computers 2014 / p. 83-92 : ill <https://doi.org/10.1109/MDAT.2013.2271420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Automated fault diagnosis for an autonomous underwater vehicle**

**Dearden, Richard; Ernits, Juhan-Peep** IEEE journal of oceanic engineering 2013 / p. 484-499 : ill <https://doi.org/10.1109/JOE.2012.2227540> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Automated identification of application-dependent safe faults in automotive systems-on-a-chips**

**Bagbaba, Ahmet Cagri; Augusto da Silva, Felipe; Sonza Reorda, Matteo; Hamdioui, Said; Jenihhin, Maksim; Sauer, Christian** Electronics 2022 / art. 319 <https://doi.org/10.3390/electronics11030319> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Autonomous driving in the real-world : the weather challenge in the Sohjoa Baltic Project**

**Bellone, Mauro; Ismailogullari, Azat; Müür, Jaanus; Nissin, Oscar; Sell, Raivo; Soe, Ralf-Martin** Towards connected and autonomous vehicle highways : technical, security and social challenges 2021 / p. 229-255 [https://doi.org/10.1007/978-3-030-66042-0\\_9](https://doi.org/10.1007/978-3-030-66042-0_9)  
[Article collection metrics at Scopus](#) [Article at Scopus](#)

**Autothermal Siberian pine nutshell pyrolysis maintained by exothermic reactions**

**Astafiev, Alexander; Shanenkov, Ivan; Ibraeva, Kanipa; Tabakaev, Roman; Preis, Sergei** Energies 2022 / art. 7118 <https://doi.org/10.3390/en15197118> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Batch and fed-batch ethanol fermentation of cheese-whey powder with mixed cultures of different yeasts**

**Farkas, Csilla; Rezessy-Szabo, Judit M.; Gupta, Vijai Kumar; Bujna, Erika; Pham, Tuan M.; Pásztor-Huszár, K.; Friedrich, László; Bhat, Rajeev; Thakur, Vijay Kumar; Nguyen, Quang D.** Energies 2019 / Art. 4495 <https://doi.org/10.3390/en12234495> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Battery storage technologies for electrical applications : impact in stand-alone photovoltaic systems**

Akinyele, Daniel; **Belikov, Juri**; Levron, Yoash Energies 2017 / art. 1760, 39 p. : ill <https://doi.org/10.3390/en10111760> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Battery technologies in electric vehicles : improvements in electric battery packs**

**Mohseni, Parham**; Husev, Oleksandr; **Vinnikov, Dmitri**; Strzelecki, Ryszard; Romero-Cadaval, Enrique; Tokarski, Igor IEEE industrial electronics magazine 2023 / p. 55-65 <https://doi.org/10.1109/MIE.2023.3252265> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bbuzz : a Bit-aware fuzzing framework for network protocol systematic reverse engineering and analysis**

Blumbergs, Bernhards; **Vaarandi, Risto** MILCOM 2017 - 2017 IEEE Military Communications Conference : Baltimore, Maryland, USA, 23-25 October 2017 2017 / p. 707-712 <https://doi.org/10.1109/MILCOM.2017.8170785> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **The bearing faults detection methods for electrical machines — the state of the art**

Khan, Muhammad Amir; **Asad, Bilal**; Kudelina, Karolina; **Vaimann, Toomas**; **Kallaste, Ants** Energies 2023 / art. 296 <https://doi.org/10.3390/en16010296> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bidirectional DC-DC converter for modular residential battery energy storage systems**

**Chub, Andrii**; **Vinnikov, Dmitri**; **Kosenko, Roman**; **Liivik, Liisa**; Galkin, Ilja IEEE transactions on industrial electronics 2020 / p. 1944-1955 : ill <https://doi.org/10.1109/TIE.2019.2902828> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bidirectional isolated current source DAB converter with extended ZVS/ZCS range and reduced energy circulation for storage applications**

**Blinov, Andrei**; **Kosenko, Roman**; **Vinnikov, Dmitri**; Parsa, Leila IEEE transactions on industrial electronics 2020 / p. 10552-10563 <https://doi.org/10.1109/TIE.2019.2958291> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bidirectional isolated hexamode DC-DC converter**

**Sidorov, Vadim**; **Chub, Andrii**; **Vinnikov, Dmitri** IEEE transactions on power electronics 2022 / p. 12264-12278 <https://doi.org/10.1109/TPEL.2022.3170229> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bidirectional soft-switching dc-dc converter for battery energy storage systems**

**Blinov, Andrei**; **Kosenko, Roman**; **Chub, Andrii**; **Vinnikov, Dmitri** IET power electronics 2018 / p. 2000-2009 : ill <https://doi.org/10.1049/iet-pel.2018.5054> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bidirectional twisted single-stage single-phase buck-boost DC-AC converter**

**Husev, Oleksandr**; **Matiushkin, Oleksandr**; Roncero-Clemente, Carlos; **Vinnikov, Dmitri**; Chopyk, Vasiliy Energies 2019 / art. 3505, 14 p. : ill <https://doi.org/10.3390/en12183505> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bioimpedance sensors : instrumentation, models, and applications**

Naranjo-Hernández, David; Reina-Tosina, Javier; Buendía, Rubén; **Min, Mart** Journal of Sensors 2019 / art. 5078209 <https://doi.org/10.1155/2019/5078209> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Bipolar duty cycle control for dual side LCC compensated inductive power transfer system for wide output voltage range**

Kishan, D.; **Chub, Andrii**; Vinod, Marupuru IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2025 / 4 p <https://doi.org/10.1109/IECON55916.2024.10905524> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Black start and fault tolerant operation of isolated matrix converter for DC microgrids**

**Emiliani, Pietro**; **Blinov, Andrei**; **Chub, Andrii**; de Carne, Giovanni; **Vinnikov, Dmitri** IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / 5 p <https://doi.org/10.1109/IECON49645.2022.9968735> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **1-butyl-3-methylimidazolium chloride assisted electrospinning of SAN/MWCNTs conductive reinforced composite membranes**

**Gudkova, Viktoria**; **Krumme, Andres**; **Märtson, Triin**; **Rikko, M.**; **Tarasova, Elvira**; **Savest, Natalja**; **Viirsalu, Mihkel** Journal of electrostatics 2015 / p. 11-16 : ill <https://doi.org/10.1016/j.elstat.2015.09.002> [Journal metrics](#) [Article at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Boost half-bridge DC-DC converter with reconfigurable rectifier for ultra-wide input voltage range applications**

**Vinnikov, Dmitri**; **Chub, Andrii**; **Liivik, Elizaveta**; Blaabjerg, Frede; Siwakoti, Yam P. 2018 IEEE Applied Power Electronics Conference and Exposition (APEC 2018), San Antonio, Texas, USA, 4-8 March 2018 2018 / p. 1528-1532 : ill <https://doi.org/10.1109/APEC.2018.8341219> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Boundary Mittag-Leffler stabilization of coupled time fractional order reaction–advection–diffusion systems with non-constant coefficients**

Chen, Juan; **Tepljakov, Aleksei; Petlenkov, Eduard**; Chen, YangQuan; Zhuang, Bo Systems & control letters 2021 / art. 104875  
<https://doi.org/10.1016/j.sysconle.2021.104875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Bridging the gap in technology transfer for advanced process control with industrial applications**

**Vansovits, Vitali; Petlenkov, Eduard; Tepljakov, Aleksei; Vassiljeva, Kristina; Belikov, Juri** Sensors 2022 / art. 4149  
<https://doi.org/10.3390/s22114149> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Broken rotor bar fault detection of the grid and inverter-fed induction motor by effective attenuation of the fundamental component**

**Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Iqbal, Muhammad Naveed** IET electric power applications 2019 / p. 2005–2014 <https://doi.org/10.1049/iet-epa.2019.0350> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Camera-LIDAR fusion based object segmentation in adverse weather conditions for autonomous driving**

**Gu, Junyi; Bellone, Mauro**; Lind, Artjom 2024 19th Biennial Baltic Electronics Conference (BEC) 2024  
<https://doi.org/10.1109/BEC61458.2024.10737955> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Can 3D printing bring droplet microfluidics to every lab? - A systematic review**

**Gyimah, Nafisat; Scheler, Ott; Rang, Toomas; Pardy, Tamas** Micromachines 2021 / art. 339 <https://doi.org/10.3390/mi12030339>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**CAP waveform estimation from the measured electrical bioimpedance values : patient's heart rate variability analysis**

**Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Annus, Paul**; Uuetoa, Tiina; Lamp, Jürgen Conference proceedings : 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : Milan, Italy, August 25-29 2015 2015 / p. 2788-2791 : ill <https://doi.org/10.1109/EMBC.2015.7318970> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Carrier level-shifted based control method for the PWM 3L-T-Type qZS inverter with capacitor imbalance compensation**

Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Ruiz-Cortes, Mercedes; **Husev, Oleksandr** IEEE transactions on industrial electronics 2018 / p. 8297-8306 : ill <https://doi.org/10.1109/TIE.2018.2814020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Catalytic effect of oil shale ash on CO2 gasification of leached wheat straw and reed chars**

**Link, Siim**; Tran, Khanh-Quang; Bach, Quang-Vu; Yrjas, Patrik; **Rosin, Argo** Energy 2018 / p. 906-913  
<https://doi.org/10.1016/j.energy.2018.04.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**CCM and DCM analysis of Quasi-Z-Source derived push-pull DC/DC converter**

**Chub, Andrii; Husev, Oleksandr; Blinov, Andrei; Vinnikov, Dmitri** Journal of microelectronics, electronic components and materials 2014 / p. 224-234 : ill [http://www.midem-drustvo.si/Journal%20papers/MIDEM\\_44\(2014\)3p224.pdf](http://www.midem-drustvo.si/Journal%20papers/MIDEM_44(2014)3p224.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Challenges of applying e-learning in the libyan higher education system**

Ghawail, Entisar Alhadi Al; **Ben Yahia, Sadok**; Alrshah, Mohamed A. International journal of advanced trends in computer science and engineering 2019 / p. 38-43 : ill <https://doi.org/10.30534/ijactse/2019/0681.42019> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Challenges of microgrids in remote communities: a STEEP model application**

Akinyele, Daniel; **Belikov, Juri**; Levron, Yoash Energies 2018 / art. 432, 35 p. : ill <https://doi.org/10.3390/en11020432> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A chameleon algorithm for solving economic dispatch problem in microgrid system**

**Zahraoui, Younes**; Alhamrouni, Ibrahim; Mekhilef, Saad; **Korōtko, Tarmo**; Jusoh, Awang; Sutikno, Tole Bulletin of electrical engineering and informatics 2023 / p. 1982-1992 : ill <https://doi.org/10.11591/eei.v12i4.4700> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Changing of magnetic flux density distribution in a squirrel-cage induction motor with broken rotor bars**

**Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants** Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 11-14 : ill <https://doi.org/10.5755/j01.eee.20.7.8018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Characterization of the ensemble of lignin-remodeling DyP-type Peroxidases from Streptomyces coelicolor A3(2)**

**Pupart, Hegne; Jõul, Piia; Bramanis, Melissa Ingela; Lukk, Tiit** Energies 2023 / art. 1557, 15 p. : ill <https://doi.org/10.3390/en16031557> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Chemical bath deposition of SnS thin films on ZnS and CdS substrates**

**Safonova, Maria**; Nair, Padmanabhan Pankajakshy Karunakaran; **Mellikov, Enn**; Garcia, A. R.; **Kerm, Karin**; **Revathi, Naidu**; Romann, Tavo; **Mikli, Valdek**; **Volobujeva, Olga** Journal of materials science : materials in electronics 2014 / p. 3160-3165 : ill

**Cities4ZERO approach to foresight for fostering smart energy transition on municipal level**

Tatar, Merit; Kalvet, Tarmo; Tiits, Marek *Energies* 2020 / art. 3533 <https://doi.org/10.3390/en13143533> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Cleaning of floating photovoltaic systems : a critical review on approaches from technical and economic perspectives**

Zahedi, Rafi; Ranjbaran, Parisa; Gharehpetian, Gevork B.; Mohammadi, Fazel; Ahmadihangar, Roya *Energies* 2021 / art. 2018, 25 p. : ill <https://doi.org/10.3390/en14072018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Cleaning procedure for the screen-printed RuO<sub>2</sub> pH electrodes**

Lazouskaya, Maryna; Vetik, Iuliia; Uppuluri, Kiranmai; Razmi, Nasrin; Scheler, Ott *IEEE Sensors* 2022 : Dallas, Texas, USA : 30 October 2022 - 02 November 2022 : *Sensors 2022 conference proceedings 2022* / 4 p. : ill <https://doi.org/10.1109/SENSOR52175.2022.9967177> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Closed-loop control system design for wireless charging of low-voltage EV batteries with time-delay constraints**

Shevchenko, Viktor; Pakhaliuk, Bohdan; Zakis, Janis; Veligorskyi, Oleksandr; Luszcz, Jaroslaw; Husev, Oleksandr; Lytvyn, Oksana; Matiushkin, Oleksandr *Energies* 2021 / art. 3934, 21 p. : ill <https://doi.org/10.3390/en14133934> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Coalitional game-based transactive energy management in local energy communities**

Feng, Changsen; Wen, Fushuan; You, Shi; Li, Zhiyi; Shahnia, Farhad; Shahidehpour, Mohammad *IEEE Transactions on Power Systems* 2020 / p. 1729 - 1740 <https://doi.org/10.1109/TPWRS.2019.2957537> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Code development of a DSP-FPGA based control platform for power electronics applications**

Minambres-Marcos, Victor; Roasto, Indrek; Szczepankowski, P.; Romero-Cadaval, Enrique; Vinnikov, Dmitri; Barrero-Gonzalez, Fermin 2015 *IEEE International Conference on Industrial Technology (ICIT 2015)* : Seville, Spain, 17-19 March 2015 2015 / p. 2890-2895 : ill <https://doi.org/10.1109/ICIT.2015.7125524> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Co-design of a wireless networked control system for reliability and resource-efficiency**

Ashraf, Kanwal; Le Moullec, Yannick; Pardy, Tamas; Rang, Toomas 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 7 p <https://doi.org/10.1109/BEC61458.2024.10737965> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Combinational fault simulation in sequential circuits**

Ubar, Raimund-Johannes; Kõusaar, Jaak; Gorev, Maksim; Devadze, Sergei 2015 *IEEE International Symposium on Circuits and Systems* : 24-27 May 2015, Lisboa, Portugal : [proceedings] 2015 / p. 2876-2879 : ill <https://doi.org/10.1109/ISCAS.2015.7169287> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Comments on "PBH tests for nonlinear systems"**

Sarafrazi, Mohammad Amin; Bartosiewicz, Zbigniew; Kotta, Ülle *Automatica* 2020 / art. 108617 <https://doi.org/10.1016/j.automatica.2019.108617> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comments on "When retarded nonlinear time-delay systems admit an input–output representation of neutral type"**

[*Automatica* 49 (2013) 561–567]

Kaldmäe, Arvo *Automatica* 2023 / art. 110797, 2 p <https://doi.org/10.1016/j.automatica.2022.110797> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Commons-based peer production and digital fabrication : the case of a RepRap-based, Lego-built 3D printing-milling machine**

Kostakis, Vasileios; Papachristou, Marios *Telematics and informatics* 2014 / p. 434-443 : ill <https://doi.org/10.1016/j.tele.2013.09.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparative analysis of high power density bidirectional DC-DC converters for portable energy storage applications**

Tytelmaier, Kostiantyn; Zakis, Janis; Husev, Oleksandr; Vinnikov, Dmitri *Elektronika ir elektrotechnika = Electronics and electrical engineering* 2018 / p. 33–41 : ill <https://doi.org/10.5755/j01.eie.24.6.22287> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparative analysis of intelligent braking controllers for electric vehicles**

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard *Renewable energy and power quality journal* 2022 / p. 55-60 <https://doi.org/10.24084/repqj20.217> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Comparative analysis of machine learning techniques for non-intrusive load monitoring**

Shabbir, Noman; Vassiljeva, Kristina; Hokmabad, Hossein Nouroollahi; Husev, Oleksandr; Petlenkov, Eduard; Belikov, Juri *Electronics* 2024 / art. 1420 <https://doi.org/10.3390/electronics13081420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



**Comparative assessment of heat recovery from treated wastewater in the district heating systems of the three capitals of the Baltic countries**

**Ziemele, Jelena; Volkova, Anna; Latšov, Eduard;** Murauskaite, Lina; Džiuvė, Vytautas Energy 2023 / art. 128132

<https://doi.org/10.1016/j.energy.2023.128132> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparative evaluation of common-ground converters for dual-purpose application**

**Hemmati Shahsavari, Tala; Rahimpour, Saeed; Vosoughi Kurdkandi, Naser;** Fesenko, Artem; **Matiushkin, Oleksandr; Husev, Oleksandr; Vinnikov, Dmitri** Energies 2023 / art. 2977 <https://doi.org/10.3390/en16072977> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparative simulation study of pump system efficiency driven by induction and synchronous reluctance motors**

**Gevorkov, Levon; Dominguez-Garcia, Jose Luis; Rassölkin, Anton; Vaimann, Toomas** Energies 2022 / art. 4068

<https://doi.org/10.3390/en15114068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A comparative study of marginal loss pricing algorithms in electricity markets**

**Yang, Jiajia; Dong, Zhao Yang; Wen, Fushuan** IET generation, transmission and distribution 2021 / 13 p. : ill

<https://doi.org/10.1049/gtd2.12030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparative study of rectifier topologies for quasi-Z-source derived push-pull converter**

**Chub, Andrii; Husev, Oleksandr; Vinnikov, Dmitri** Elektronika ir elektrotechnika = Electronics and electrical engineering 2014 / p. 29-34 : ill <https://doi.org/10.5755/j01.eee.20.6.7264> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

<https://doi.org/10.5755/j01.eee.20.6.7264> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A comparative study of the growth dynamics and tribological properties of nanocrystalline diamondfilms deposited on the (110) single crystal diamond and Si(100) substrates**

**Podgurski, Vitali; Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Volobujeva, Olga; Mere, Arvo; Raadik, Taavi** Diamond and related materials 2019 / p. 159-167 : ill <https://doi.org/10.1016/j.diamond.2018.12.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

<https://doi.org/10.1016/j.diamond.2018.12.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparative study of the phase-integrated converter as universal power converter**

**Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri; Vosoughi Kurdkandi, Naser;** Kouro, Samir Annual IEEE

Conference on Applied Power Electronics Conference and Exposition (APEC) 2022 / p. 58-63

<https://doi.org/10.1109/APEC43599.2022.9773553> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Comparison of district heating supply options for different CHP configurations**

**Rušelj, Pavel; Dedov, Andrei; Hlebnikov, Aleksandr; Lepiksaar, Kertu; Volkova, Anna** Energies 2023 / art. 603, 14 p. : ill

<https://doi.org/10.3390/en16020603> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparison of excitation signals and methods for a wideband bioimpedance measurement**

**Ojarand, Jaan; Rist, Marek; Min, Mart** I2MTC 2016 : 2016 IEEE International Instrumentation and Measurement Technology

Conference : May 23-26, 2016, Taipei International Convention Center, Taipei, Taiwan : proceedings 2016 / p. 1291-1296 : ill

<https://doi.org/10.1109/I2MTC.2016.7520555> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Comparison of impedance-source networks for two and multilevel buck-boost inverter applications**

**Husev, Oleksandr;** Blaabjerg, Frede; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri;** Siwakoti, Yam P.;

Strzelecki, Ryszard IEEE transactions on power electronics 2016 / p. 7564-7579 : ill <https://doi.org/10.1109/TPEL.2016.2569437> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparison of LPV and nonlinear system theory : a realization problem**

**Belikov, Juri; Kotta, Ülle; Tönso, Maris** Systems & control letters 2014 / p. 72-78 <https://doi.org/10.1016/j.sysconle.2013.10.009>

<https://doi.org/10.1016/j.sysconle.2013.10.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparison of model order reduction methods for a switched reluctance machine characterization**

**Boumesbah, Allaa Eddine; Martin, Florian; Krebs, Guillaume; Belahcen, Anouar;** Marchand, Claude IEEE transactions on magnetics

2021 / art. 9355193, 7 p. : ill <https://doi.org/10.1109/TMAG.2021.3059969> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

<https://doi.org/10.1109/TMAG.2021.3059969> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparison of performance of phase-shift and asymmetrical pulse width modulation techniques for the novel galvanically isolated buck-boost dc-dc converter for photovoltaic applications**

**Vinnikov, Dmitri; Chub, Andrii; Kosenko, Roman; Zakis, Janis; Liivik, Elizaveta** IEEE journal of emerging and selected topics in power electronics 2017 / p. 624-637 : ill <https://doi.org/10.1109/JESTPE.2016.2631628> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

<https://doi.org/10.1109/JESTPE.2016.2631628> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparison of renewable electricity generation options with household electrical load patterns**

**Auväärt, Aivar; Rosin, Argo; Rosin, Kai; Drovkar, Imre; Lehtla, Madis** Proceedings : IECON 2013 - 39th Annual Conference of

the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 1555-1560 : ill

<https://ieeexplore.ieee.org/document/6699364> <https://doi.org/10.1109/IECON.2013.6699364> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Comparison of the carbon nanofiber-/fiber- and silicone-based electrodes for bioimpedance measurements**

**Kõiv, Hip; Pesti, Ksenija; Min, Mart; Land, Raul;** Must, Indrek IEEE transactions on instrumentation and measurement 2020 / p. 1455-1463 <https://doi.org/10.1109/TIM.2019.2962297> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparison of three-phase three-level voltage source inverter with intermediate dc-dc boost converter and quasi-Z-source inverter**

**Panfilov, Dmitry; Husev, Oleksandr;** Blaabjerg, Frede; **Zakis, Janis;** Khandakji, Kamal IET Power Electronics 2016 / p. 1238 - 1248 <https://doi.org/10.1049/iet-pel.2015.0539> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparison of time-varying phasor and dq0 dynamic models for large transmission networks**

**Belikov, Juri;** Levron, Yoash International journal of electrical power & energy systems 2017 / p. 65-74 <https://doi.org/10.1016/j.ijepes.2017.05.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comprehensive comparative analysis of impedance-source networks for DC and AC application**

**Husev, Oleksandr;** Shults, Tatiana; **Vinnikov, Dmitri; Chub, Andrii** Electronics 2019 / 21 p. : ill <https://doi.org/10.3390/electronics8040405> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comprehensive performance and robustness analysis of 2D turn models for network-on-chips**

**Azad, Siavoosh Payandeh; Niazmand, Behrad; Janson, Karl; Kogge, Thilo; Raik, Jaan; Jervan, Gert; Hollstein, Thomas** 2017 IEEE International Symposium on Circuits and Systems (ISCAS) 2017 / p. 1476-1479 : ill <https://doi.org/10.1109/ISCAS.2017.8050634> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Computation of hysteresis torque and losses in a bearingless synchronous reluctance machine**

**Belahcen, Anouar;** Mukhrejee, Victor; Martin, Florian; Rasilo, Paavo IEEE transactions on magnetics 2018 / art. 7300804, 4 p. : ill <https://doi.org/10.1109/TMAG.2017.2765080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Conformational switching of ethano-bridged Cu<sub>2</sub>H<sub>2</sub>-bis-porphyrin induced by aromatic amines**

Bettini, Simona; Maglie, Emanuela; Pagano, Rosanna; **Borovkov, Victor** Beilstein journal of nanotechnology 2015 / p. 2154-2160 : ill <https://doi.org/10.3762/bjnano.6.221> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Considerations on combining unfolding inverters with partial power regulators in battery-grid interface converters**

Galkin, Ilya A.; Saltanovs, Rodions; Bubovich, Alexander; **Blinov, Andrei;** Peftitsis, Dimosthenis Energies 2024 / art. 893 <https://doi.org/10.3390/en17040893> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Constitutive modeling with single and dual internal variables**

**Berezovski, Arkadi** Entropy 2023 / art. 721, 26 p <https://doi.org/10.3390/e25050721> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Continuous, near-bed current velocity estimation using pressure and inertial sensing**

**Ristolainen, Asko; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja** IEEE sensors journal 2019 / p. 12398 - 12406 : ill <https://doi.org/10.1109/JSEN.2019.2937954> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Control of a three-input DC-DC converter suitable for DC motors**

Alizadeh Asl, Amin; Hosseini, Seyed Hossein; **Vosoughi Kurdkandi, Naser;** Alizadeh Asl, Ramin International transactions on electrical energy systems 2022 / art. 4264649, 20 p. : ill <https://doi.org/10.1155/2022/4264649> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Control of radial increment and winding density of composite cylindrical shells**

Kutin, Aleksei; **Arjassov, Gennadi; Vu, Trieu Minh;** Musalimov, Victor; Moezzi, Reza; Cyrus, Jindrich MM science journal 2020 / p. 4149-4153 [https://doi.org/10.17973/MMSJ.2020\\_11\\_2020058](https://doi.org/10.17973/MMSJ.2020_11_2020058) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Control scheme of a Three-Phase Three-Level NPC qZ-Source inverter with LCL filter for RES applications**

Roncero-Sanches, Pedro; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr; Makovenko, Elena** Proceedings of the IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society : Florence, Italy, October 24-27 2016 2016 / p. 6540-6547 <https://doi.org/10.1109/IECON.2016.7793338> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Controlled bidirectional DC circuit breaker with zero negative current for high load shift applications**

Raghavendra I, Venkata; Naik, Satish B.; Sreekanth, Thamballa; **Chub, Andrii** IEEE transactions on industry applications 2022 / p. 6942-6951 <https://doi.org/10.1109/TIA.2022.3193345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Converting Tallinn's historic centre's (Old Town) heating system to a district heating system**

**Volkova, Anna; Krupenski, Igor; Kovtunova, Natalja; Hlebnikov, Aleksandr; Mašatin, Vladislav; Ledvanov, Aleksandr** Energy 2023 / art. 127429 <https://doi.org/10.1016/j.energy.2023.127429> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Cooling thermal comfort and efficiency parameters of ceiling panels, underfloor cooling, fan-assisted radiators, and fan coil**

**Vösa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek** Energies 2022 / art. 4156 <https://doi.org/10.3390/en15114156> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Cooperative scheduler to enhance massive connectivity in 5G and beyond by minimizing interference in OMA and NOMA**

**Mwakwata, Collins Burton; Elgarhy, Osama Mohamed Mostafa; Alam, Muhammad Mahtab; Le Moullec, Yannick; Päränd, Sven; Trichias, Konstantinos; Ramantas, Kostas** IEEE Systems Journal 2022 / p. 5044-5055 <https://doi.org/10.1109/JSYST.2021.3114338> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Co-pyrolysis of woody biomass and oil shale — a kinetics and modelling study**

**Lyons Ceron, Alejandro; Ochieng, Richard; Sarker, Shiplu; Järvik, Oliver; Konist, Alar** Energies 2024 / art. 1055 <https://doi.org/10.3390/en17051055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Co-Pyrolysis of Woody Biomass and Oil Shale in a Batch Reactor in CO<sub>2</sub>, CO<sub>2</sub>-H<sub>2</sub>O, and Ar Atmospheres**

**Lyons Ceron, Alejandro; Konist, Alar** Energies 2023 / art. 3145 <https://doi.org/10.3390/en16073145> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Corporate social responsibility and self-regulation**

**Alavi, Hamed; Hąbek, Patrycja; Cierna, Helena** MM Science Journal 2016 / p. 1121 - 1126 [https://doi.org/10.17973/MMSJ.2016\\_10\\_201681](https://doi.org/10.17973/MMSJ.2016_10_201681) [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Correcting systematic errors in corona losses measured with phasor measurement units**

**Tuttelberg, Kaur; Löper, Mari; Kilter, Jako** IEEE transactions on power delivery 2019 / p. 2275-2277 : ill <https://doi.org/10.1109/TPWRD.2019.2917610> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Correction to: Implementation and evaluation of the DAOM framework and support tool for designing blockchain decentralized applications (International Journal of Information Technology, (2021), 13, 6, (2245-2263), 10.1007/s41870-021-00816-6)**

**Udokwu, Chibuzor; Brandtner, Patrick; Norta, Alexander; Kormiltsõn, Aleksandr; Matulevičius, Raimundas** International Journal of Information Technology (Singapore) 2022 <https://doi.org/10.1007/s41870-022-01026-4> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Cost and energy reduction of a New nZEB wooden building**

**Arumägi, Endrik; Kalamees, Targo** Energies 2020 / art. 3570, 16 p. : ill <https://doi.org/10.3390/en13143570> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Cost effectiveness of energy performance improvements in Estonian brick apartment buildings**

**Kuusk, Kalle; Kalamees, Targo; Maivel, Mikk** Energy and buildings 2014 / p. 313-322 : ill <https://doi.org/10.1016/j.enbuild.2014.03.026> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Cost optimal and nearly zero energy building solutions for office buildings**

**Pikas, Ergo; Thalfeldt, Martin; Kurnitski, Jarek** Energy and buildings 2014 / p. 30-42 : ill <https://doi.org/10.1016/j.enbuild.2014.01.039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Cost-benefit analysis of nZEB energy efficiency strategies with on-site photovoltaic generation**

**Pikas, Ergo; Kurnitski, Jarek; Thalfeldt, Martin; Koskela, Lauri** Energy 2017 / p. 291-301 : ill <https://doi.org/10.1016/j.energy.2017.03.158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **The cost-competitiveness of concentrated solar power with thermal energy storage in power systems with high solar penetration levels**

**Miron, Dror; Navon, Aviad; Levron, Yoash; Belikov, Juri; Rotschild, Carmel** Journal of Energy Storage 2023 / art. 108464 <https://doi.org/10.1016/j.est.2023.108464> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **A cost-effective electric vehicle intelligent charge scheduling method for commercial smart parking lots using a simplified convex relaxation technique**

**Jawad, Muhammad; Qureshi, Muhammad Bilal; Ali, Sahibzada Muhammad; Shabbir, Noman; Khan, Muhammad Usman; Aloraini, Afnan; Nawaz, Raheel** Sensors 2020 / p. 1-19 <https://doi.org/10.3390/s20174842> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Cost-effective piggyback forward dc-dc converter**

**Matiushkin, Oleksandr; Husev, Oleksandr; Afshari, Hossein; Vinnikov, Dmitri; Strzelecki, Ryszard** 2024 IEEE Applied Power Electronics Conference and Exposition (APEC) 2024 / p. 2106-2111 <https://doi.org/10.1109/APEC48139.2024.10509355> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Cost-efficient network planning for the cross-border Baltic corridor—a study**

**Elgarhy, Osama Mohamed Mostafa; Alam, Mohammad Saad; Tammets, Anet; Roosipuu, Priit;** Ancans, Guntis; Saidans, Guntars; Tutovs, Jurijs; Salinš, Klavs; Verdinš, A.; Aleksandrovs, M.; Perševics, A.; Zariņš, D.; Uusmaa, Mart; Uhtlik, Ove; Soom, Priit Sensors 2023 / art. 8111 <https://doi.org/10.3390/s23198111> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Current challenges in operation, performance, and maintenance of photovoltaic panels**

Orosz, Tamas; **Rassólkin, Anton;** Arsenio, Pedro; Poor, Peter; **Valme, Daniil;** Sleisz, Adam Energies 2024 / art. 1306 <https://doi.org/10.3390/en17061306> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Current harmonic aggregation cases for contemporary loads**

**Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; Shabbir, Noman** Energies 2022 / art. 437 <https://doi.org/10.3390/en15020437> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Current sensorless control for half-bridge based AC/DC PFC converter with consideration of conduction losses**

Suzdalenko, Alexander; **Chub, Andrii** International journal of circuit theory and applications 2016 / p. 2072-2084 : ill <https://doi.org/10.1002/cta.2212> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A current spectrum-based algorithm for fault detection of electrical machines using low-power data acquisition devices**

**Asad, Bilal; Raja, Hadi Ashraf; Vaimann, Toomas; Kallaste, Ants;** Pomarnacki, Raimondas; Hyunh, Van Khang Electronics 2023 / art. 1746 <https://doi.org/10.3390/electronics12071746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Current-fed partial power converter for photovoltaic applications in DC microgrids**

**Jalakas, Tanel; Kosenko, Roman; Chub, Andrii; Vinnikov, Dmitri; Blinov, Andrei** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / p. 1-5 : ill <https://doi.org/10.1109/IECON48115.2021.9589899> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**DAT: deep learning-based acceleration-aware trajectory forecasting**

Sharifi, Ali Asghar; Zoljodi, Ali; **Daneshtalab, Masoud** Journal of imaging 2024 / art. 321, 16 p. : ill <https://doi.org/10.3390/jimaging10120321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Data-driven occupancy profile identification and application to the ventilation schedule in a school building**

**Vassiljeva, Kristina; Matson, Margarita; Ferrantelli, Andrea; Petlenkov, Eduard; Thalfeldt, Martin; Belikov, Juri** Energies 2024 / art. 3080 <https://doi.org/10.3390/en17133080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Day-ahead market modelling of large-scale highly-renewable multi-energy systems : analysis of the North Sea region towards 2050**

Gea-Bermudez, Juan; Das, Kaushik; **Koduvere, Hardi;** Koivisto, Matti J. Energies 2021 / art. 88, 17 p. : ill <https://doi.org/10.3390/en14010088> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The DC transformer power electronic building block : powering next-generation converter design**

Flores-Bahamonde, Freddy; Renaudineau, Hugues; **Chub, Andrii** IEEE industrial electronics magazine 2023 / p. 21-35 <https://doi.org/10.1109/MIE.2022.3147168> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**DC voltage sensorless predictive control of a high-efficiency PFC single-phase rectifier based on the versatile buck-boost converter**

González-Castaño, Catalina; Restrepo, Carlos; Sanz, Fredy; **Chub, Andrii;** Giral, Roberto Sensors 2021 / art. 5107 <https://doi.org/10.3390/s21155107> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**DC-ready photovoltaic solar converter**

**Matiushkin, Oleksandr; Husev, Oleksandr; Vinnikov, Dmitri; Kurnitski, Jarek** PCIM Europe 2023 : Conference proceedings 2023 / 7 p <https://doi.org/10.30420/566091094> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Degradation of aqueous alachlor in pulsed corona discharge**

**Bolobajev, Juri; Gornov, Daniil;** Kornev, Iakov; **Preis, Sergei** Journal of electrostatics 2021 / art. 103543 <https://doi.org/10.1016/j.elstat.2020.103543> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Delightful daylighting : a framework for describing the experience of daylighting in Nordic homes and 'coupling it with quantitative assessments**

**Viikberg, Hanna; Sepulveda Luque, Abel; De Luca, Francesco** Energies 2022 / art. 1815 <https://doi.org/10.3390/en15051815>



**Demand controlled ventilation indoor climate and energy performance in a high performance building with air flow rate controlled chilled beams**

Ahmed, Kaiser; **Kurnitski, Jarek**; Sormunen, Piia Energy and buildings 2015 / p. 115-126 : ill

<https://doi.org/10.1016/j.enbuild.2015.09.052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Demand response potential of district heating in a swimming hall in Finland**

Yuan, Xiaolei; Lindroos, Leo; **Jokisalo, Juha**; **Kosonen, Risto**; Pan, Yiqun; Jin, Hui Energy and buildings 2021 / art. 111149, 12 p. : ill

<https://doi.org/10.1016/j.enbuild.2021.111149> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Demand side management in small power systems - the Estonian case study**

**Drovtar, Imre**; **Rosin, Argo**; **Kilter, Jako** Elektronika ir elektrotehnika = Electronics and electrical engineering 2016 / p. 13-19 : ill

<https://doi.org/10.5755/j01.eie.22.3.15308> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Depth control of the biomimetic U-CAT turtle-like AUV with experiments in real operating conditions**

Chemori, Ahmed; **Kuusmik, Keijo**; **Salumäe, Taavi**; **Kruusmaa, Maarja** 2016 IEEE International Conference on Robotics and Automation : Stockholm, Sweden, May 16th-21st 2016 / p. 4750-4755 : ill

<https://doi.org/10.1109/ICRA.2016.7487677> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Derivation of Bioimpedance Model Data Utilizing a Compact Analyzer and Two Capacitive Electrodes : A Forearm Example**

**Ojarand, Jaan**; **Priidel, Eiko**; **Min, Mart** IEEE Transactions on Biomedical Circuits and Systems 2022 / p. 891-901

<https://doi.org/10.1109/TBCAS.2022.3206666> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Design and analysis of a DC solid-state circuit breaker for residential energy router application**

**Rahimpour, Saeed**; **Husev, Oleksandr**; **Vinnikov, Dmitri** Energies 2022 / art. 9434 <https://doi.org/10.3390/en15249434> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Design and applications of Rogowski coil sensors for power system measurements : a review**

**Shafiq, Muhammad**; Stewart, Brian G.; Hussain, Ghulam Amjad; Hassan, Waqar; **Choudhary, Maninder**; **Palo, Ivo** Measurement : journal of the International Measurement Confederation 2022 / art. 112014, 10 p. : ill <https://doi.org/10.1016/j.measurement.2022.112014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Design and experimental validation of a single-stage PV string inverter with optimal number of interleaved buck-boost cells**

Fesenko, Artem; **Matiushkin, Oleksandr**; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Strzelecki, Ryszard; Kołodziejek, Piotr Energies 2021 / art. 2448, p., 17 p. : ill <https://doi.org/10.3390/en14092448> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Design and implementation of fractional-order PID controllers for a fluid tank system**

**Tepljakov, Aleksei**; **Petlenkov, Eduard**; **Belikov, Juri**; Halas, Miroslav 2013 American Control Conference (ACC) : Washington, DC, USA, June 17-19, 2013 2013 / p. 1777-1782 : ill <https://doi.org/10.1109/acc.2013.6580093> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Design and prototyping of directly driven outer rotor permanent magnet generator for small scale wind turbines [Online resource]**

**Vaimann, Toomas**; **Kudrjavitsev, Oleg**; **Kilk, Aleksander**; **Kallaste, Ants**; **Rassõlkin, Anton** Advances in electrical and electronic engineering 2018 / p. 271-278 : ill <https://doi.org/10.15598/aeet.v16i3.2698> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Design for accelerated testing of DC-link capacitors in photovoltaic inverters based on mission profiles**

Sangwongwanich, Ariya; Shen, Yanfeng; **Chub, Andrii**; **Liivik, Elizaveta**; **Vinnikov, Dmitri**; Wang, Huai; Blaabjerg, Frede IEEE transactions on industry applications 2021 / p. 741-753 <https://doi.org/10.1109/TIA.2020.3030568> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Design of a simple modular active power electronic transformer**

Strzelecki, Ryszard; **Roasto, Indrek**; Romero-Cadaval, Enrique Proceedings : IECON 2014 - 40th Annual Conference of the IEEE Industrial Electronics Society : Sheraton Hotel Dallas, Dallas, TX, USA, 30. October-01. November, 2014 2014 / p. 1410-1415 : ill <https://doi.org/10.1109/IECON.2014.7048686> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Detailed and simplified window model and opening effects on optimal window size and heating need**

**Thalfeldt, Martin**; **Kurnitski, Jarek**; **Voll, Hendrik** Energy and buildings 2016 / p. 242-251 : ill

<https://doi.org/10.1016/j.enbuild.2016.06.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Detailed insight into the CZTS/CdS interface modification by air annealing in monograin layer solar cells**

**Kauk-Kuusik, Marit**; **Timmo, Kristi**; **Muska, Katri**; **Pilvet, Maris**; **Krustok, Jüri**; **Josepson, Raavo**; Brammertz, Guy; Vermang,

Bart; **Danilson, Mati; Grossberg, Maarja** ACS Applied Energy Materials 2021 / p. 12374–12382

<https://doi.org/10.1021/acsaem.1c02186> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A detailed testing procedure of numerical differential protection relay for EHV auto transformer**

Ehsan, Umer; Jawad, Muhammad; Javed, Umar; Zaidi, Khurram Shabih; Rehman, Ateeq Ur; **Rassölkin, Anton**; Althobaiti, Maha M.; Hamam, Habib; **Shafiq, Muhammad** Energies 2021 / art. 8447 <https://doi.org/10.3390/en14248447> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Detection of cracks in a sawblade by eddy current measurements**

**Märtens, Olev; Land, Raul; Metshein, Margus; Abdullayev, Anar; Vennikas, Henri; Le Moullec, Yannick** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737981> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Detection of induction motor broken bars in grid and frequency converter supply**

**Vaimann, Toomas; Belahcen, Anouar**; Martinez, Javier; **Kilk, Aleksander** Przegląd elektrotechniczny 2014 / p. 90-94 : ill <https://www.pe.org.pl/articles/2014/1/22.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Detection of pulmonary micronodules in computed tomography images and false positive reduction using 3D convolutional neural networks**

Gupta, Anindya; Saar, Tõnis; **Märtens, Olev; Le Moullec, Yannick**; Sintorn, Ida-Maria International Journal of Imaging Systems and Technology 2019 / p. 327-339 : ill <https://doi.org/10.1002/ima.22373> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Determination of e/h ratio by optical measurements**

Kübarsepp, Toomas; **Tamre, Mart**; Gran, Jarle; Monakhov, Edouard; Merimaa, M.; Werner, Lutz; Rastello, Maria Luisa 29th Conference on Precision Electromagnetic Measurements, DIGEST, Rio de Janeiro, Brazil, August 24-29, 2014 2014 / p. 236-237 <https://doi.org/10.1109/CPEM.2014.6898346> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Determination of heat transfer coefficient from housing surface of a totally enclosed fan-cooled machine during passive cooling**

**Shams Ghahfarokhi, Payam**; Podgornovs, Andrejs; **Kallaste, Ants**; Cardoso, Antonio J. Marques; **Belahcen, Anouar; Vaimann, Toomas; Asad, Bilal; Tiismus, Hans** Machines 2021 / art. 120 <https://doi.org/10.3390/machines9060120> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Determination of heat transfer coefficient of finned housing of a TEFC variable speed motor**

**Shams Ghahfarokhi, Payam; Kallaste, Ants**; Podgornovs, Andrejs; **Belahcen, Anouar; Vaimann, Toomas; Asad, Bilal** Electrical Engineering 2021 / p. 1009–1017 : ill <https://doi.org/10.1007/s00202-020-01132-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Determining sea surface heights using small footprint airborne laser scanning**

**Gruno, Anti**; Liibus, Aive; **Ellmann, Artu** Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2013 : 24 September 2013, Dresden, Germany 2013 / p. 88880R-1-88880R-13 : ill <https://doi.org/10.1117/12.2029189> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Determining the optimal directions of investment in regional renewable energy development**

Sotnyk, Iryna; Kurbatova, Tetiana; Romaniuk, Yaroslavna; Prokopenko, Olha; Gonchar, Viktoriya; **Prause, Gunnar Klaus**; Sapiński, Aleksander Energies 2022 / art. 3646 <https://doi.org/10.3390/en15103646> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Developing a framework for smart stormwater management in Tallinn, Estonia**

**Suits, Kristjan; Vassiljev, Anatoli; Kaur, Katrin; Kõiv, Kerta; Kändler, Nils; Annus, Ivar** Engineering Proceedings 2024 / art. 23 <https://doi.org/10.3390/engproc2024069023> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Developing energy calculation methodology and calculation tool validations : Application in air-heated ice rink arenas**

Taebnia, Mehdi; Toomla, Sander; Leppä, Lauri; **Kurnitski, Jarek** Energy and buildings 2020 / art. 110389, 19 p. : ill <https://doi.org/10.1016/j.enbuild.2020.110389> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Development and performance assessment of prefabricated insulation elements for deep energy renovation of apartment buildings**

**Pihelo, Peep; Kuusk, Kalle; Kalamees, Targo** Energies 2020 / art. 1709, 20 p. : ill <https://doi.org/10.3390/en13071709> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Development of a battery sizing tool for nearly zero energy buildings**

**Ahmadihangar, Roya; Husev, Oleksandr; Blinov, Andrei**; Karami, Hossein; **Rosin, Argo** IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics Society 2020 / p. 5149-5154 : ill <https://doi.org/10.1109/IECON43393.2020.9254557> [Conference proceeding](#) [Article at Scopus](#) [Article at WOS](#)

**Development of a low-cost, wireless smart thermostat for isothermal DNA amplification in lab-on-a-chip devices**

Pardy, Tamas; Sink, Henri; Koel, Ants; Rang, Toomas Micromachines 2019 / art. 437, 13 p. : ill <https://doi.org/10.3390/mi10070437>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of a measurement system for estimation of local peripheral arterial stiffness parameters**

Pilt, Kristjan; Karai, Deniss; Fridolin, Ivo 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / p. 1-5  
<https://doi.org/10.1109/BEC61458.2024.10737944> [Article at Scopus](#) [Conference proceeding at Scopus](#) [Article at WOS](#)

**Development of a reduced order model of solar heat gains prediction**

Tamm, Meril; Cid, Jordi Macia; Paramio, Roser Capdevila; Baulenas, Joan Farnos; Thalfeldt, Martin; Kurnitski, Jarek Energies 2020 / art. 6316, 17 p. : ill <https://doi.org/10.3390/en13236316> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)  
[Article at WOS](#)

**Development of a wireless communication network for monitoring and controlling of autonomous robots**

Vu, Trieu Minh; Tamre, Mart; Musalimov, Victor; Kovalenko, Pavel; Monahov, Juri International journal of robotics and automation 2018 / 16 p <https://doi.org/10.2316/Journal.206.2018.3.206-4759> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)  
[Article at WOS](#)

**Development of a wireless sensor network combining MATLAB and embedded microcontrollers**

Vu, Trieu Minh; Tamre, Mart; Musalimov, Victor; Altunin, Valeri Sensor letters 2015 / p. 1091-1096 : ill  
<https://doi.org/10.1166/sl.2015.3594> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Development of analytical thermal analysis tool for synchronous reluctance motors**

Shams Ghahfarokhi, Payam; Kallaste, Ants; Podgornovs, Andrejs; Belahcen, Anouar; Vaimann, Toomas IET electric power applications 2020 / p. 1828-1836 <https://doi.org/10.1049/iet-epa.2020.0237> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of anti-lock braking system (ABS) for vehicles braking**

Vu, Trieu Minh; Oamen, Godwin; Vassiljeva, Kristina; Teder, Leo Open engineering 2016 / p. 554-559 : ill  
<https://doi.org/10.1515/eng-2016-0078> [Journal metrics at Scopus](#) [Article at scopus](#)

**Development of bioimpedance sensing device for wearable monitoring of the aortic blood pressure curve = Entwicklung eines Bioimpedanz-Messgerätes für die mobile Erfassung des aortalen Blutdruck**

Kõiv, Hip; Rist, Marek; Min, Mart Technisches Messen 2018 / p. 366–377 : ill <https://doi.org/10.1515/teme-2017-0113> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of experimental set-up for the investigation of photoelectric response of the pyroelectric crystal to short pulses of the Hg(Xe) lamp**

Podgurski, Vitali; Land, Raul; Bogatov, Andrei; Vlasov, A.; Nagorny, A.; Tiik, K. Journal of optoelectronics and advanced materials 2024 / p. 243 - 245 <https://joam.inoe.ro/articles/development-of-experimental-set-up-for-the-investigation-of-photoelectric-response-of-the-pyroelectric-crystal-to-short-pulses-of-the-hgxe-lamp/fulltext> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)  
[Article at WOS](#)

**Development of temperature control solutions for non-instrumented nucleic acid amplification tests (NINAAT)**

Pardy, Tamas; Rang, Toomas; Tulp, Indrek Micromachines 2017 / p. 1-11 : ill <https://doi.org/10.3390/mi8060180> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of testing method for smart substations with prosumers**

Korõtko, Tarmo; Merisalu, Ülo; Mägi, Marek; Peterson, Kristjan; Pettai, Elmo Journal of microelectronics, electronic components and materials 2014 / p. 185-200 : ill <https://www.dlib.si/details/URN:NBN:SI:doc-N5PGZIFC> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

**Differential pressure sensor speedometer for autonomous underwater vehicle velocity estimation**

Meurer, Christian; Francisco Fuentes-Perez, Juan; Palomeras, Narcis; Carreras, Marc; Kruusmaa, Maarja IEEE Journal of Oceanic Engineering 2020 / p. 946 - 978 <https://doi.org/10.1109/JOE.2019.2907822> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Differential pressure sensors for underwater speedometry in variable velocity and acceleration conditions**

Fuentes-Perez, Juan Francisco; Meurer, Christian; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja IEEE Journal of Oceanic Engineering 2018 / p. 418-426 : ill <https://doi.org/10.1109/JOE.2017.2767786> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Digital capacity and employment outcomes : microdata evidence from pre- and post-COVID-19 Europe**

Männasoo, Kadri; Pareliussen, Jon Kristian; Saia, Artjom Telematics and informatics 2023 / art. 102024  
<https://doi.org/10.1016/j.tele.2023.102024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Digital control of PFC rectifier with combined feedforward and PI regulator**

**Verbytskyi, Ievgen; Blinov, Andrei; Emiliani, Pietro;** Galkin, Ilja IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6 <https://doi.org/10.1109/IECON49645.2022.9968509> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Digital realization of retuning fractional-order controllers for an existing closed-loop control system**

**Tepljakov, Aleksei; Petlenkov, Eduard;** Gonzalez, Emmanuel A.; **Belikov, Juri** Journal of circuits, systems, and computers 2017 / art. 1750165, p. 1-26 <https://doi.org/10.1142/S0218126617501651> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Digital Twin as a virtual sensor for wind turbine applications**

**Mohamed, Mahmoud Ibrahim Hassanin; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants;** Zakis, Janis; Hyunh, Van Khang; Pomarnacki, Raimondas Energies 2023 / art. 6246 <https://doi.org/10.3390/en16176246> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Digital-toolkit for promoting tourist destinations**

**Prokopenko, Olha;** Larina, Yaroslava; Chetveryk, Olena; Kravtsov, Sergiy; Rozhko, Nataliya; Lorvi, Iryna International journal of innovative technology and exploring engineering 2019 / p. 4982-4987 : ill <https://doi.org/10.35940/ijitee.L3745.1081219> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Direct aqueous carbonation on olivine at a CO<sub>2</sub> partial pressure of 6.5 MPa**

Li, Jiajie; Jacobs, Anthony D.; **Hitch, Michael William** Energy 2019 / p. 902-910 : ill <https://doi.org/10.1016/j.energy.2019.02.125> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Direct liquid cooling in low-power electrical machines : proof-of-concept**

Lindh, Pia; Petrov, Ilya; Semken, R. Scott; **Vaimann, Toomas; Kallaste, Ants** IEEE transactions on energy conversion 2016 / p. 1257-1266 : ill <https://doi.org/10.1109/TEC.2016.2597059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Directly electrosponed electrodes for electrical double-layer capacitors from carbide-derived carbon**

**Malmberg, Siret;** Arulepp, Mati; **Savest, Natalja;** Tarasova, Elvira; **Vassiljeva, Viktoria;** Krasnou, Illia; **Käärik, Maike;** Mikli, Valdek; **Krumme, Andres** Journal of electrostatics 2020 / art. 103396, 7 p. : ill <https://doi.org/10.1016/j.elstat.2019.103396> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Distributed fusion and automated sensor tasking in ISR systems**

**Preden, Jürjo-Sören; Pahtma, Raido; Astapov, Sergei; Ehala, Johannes; Riid, Andri; Mötus, Leo** Ground/air multisensor interoperability, integration, and networking for persistent ISR V 2014 / p. 90790M-1 - 90790M-10 : ill <https://doi.org/10.1117/12.2054731> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Distributed largest eigenvalue detection**

**Ainomäe, Ahti; Trump, Tõnu;** Bengtsson, Mats 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 3519-3523 : ill <https://doi.org/10.1109/ICASSP.2017.7952811> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Distributed price-based power management for multibuses DC nanogrids EEMS**

**Carvalho da Silva, Edivan Laercio;** Bellinaso, Lucas V.; Cardoso, Rafael; Michels, Leandro IEEE journal of emerging and selected topics in power electronics 2022 / p. 5509-5521 <https://doi.org/10.1109/JESTPE.2022.3152101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Distributed storage placement policy for minimizing frequency deviations: A combinatorial optimization approach based on enhanced cross-entropy method**

Machlev, Ram; Chowdhury, Nilanjan Roy; **Belikov, Juri; Levron, Yoash** International Journal of Electrical Power and Energy Systems 2022 / p. 1-14 : ill <https://doi.org/10.1016/j.ijepes.2021.107332> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Disturbance decoupling of time delay systems**

**Kaldmäe, Arvo;** Moog, Claude Asian journal of control 2016 / p. 1130-1134 <https://doi.org/10.1002/asjc.1169> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **DoS attack detection and path collision localization in NoC-based MPSoC architectures**

**Chaves Arroyave, Cesar Giovanni; Azad, Siavoosh Payandeh; Hollstein, Thomas;** Sepulveda, Johanna Journal of low power electronics and applications 2019 / art. 7, 20 p. : ill <https://doi.org/10.3390/jlpea9010007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **A DSP-based EBI, ECG and PPG measurement platform**

**Abdullayev, Anar; Rist, Marek; Märten, Olev; Metshein, Margus;** Larras, Benoit; Frappe, Antoine; Gautier, Antoine; **Min, Mart;**



John, Deepu; Cardiff, Barry; **Krivosei, Andrei; Annus, Paul** IEEE transactions on instrumentation and measurement 2023 / art. 2007808, 8 p <https://doi.org/10.1109/TIM.2023.3320771> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **A dual-buck-boost DC–DC/AC universal converter**

Ong, Yao Rong; Cao, Shuyu; Lee, Sze Sing; Lim, Chee Shen; Chen, Max M.; **Vosoughi Kurdkandi, Naser**; Barzegarkhoo, Reza; Siwakoti, Yam P. Electronics (Switzerland) 2022 / art. 1973 <https://doi.org/10.3390/electronics11131973> [Journal metrics at scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Dual-purpose dc-dc/ac PWM modular power converter as grid-forming unit in a droop-controlled ac nanogrid**

Roncero-Clemente, Carlos; Escalona, Javier-Gutiérrez; **Matiushkin, Oleksandr**; Pires, V. Fernão; Milanés-Montero, María Isabel; **Romero-Cadaval, Enrique** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 6 p <https://doi.org/10.1109/IECON55916.2024.10906022> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Dual-source Linear Energy Prediction (LINE-P) model in the context of WSNs**

**Ahmed, Faisal; Tamberg, Gert; Le Moullec, Yannick; Annus, Paul** Sensors 2017 / art. 1666, p. 1-22 : ill <https://doi.org/10.3390/s17071666> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **DyMeP : an infrastructure to support dynamic memory binding for runtime mapping in CGRAs**

**Tajammul, Muhammad Adeel**; Jafri, Syed Mohammad Asad Hassan; **Ellervee, Peeter**; Hemani, Ahmed; Tenhunen, Hannu; Plosila, Juha 28th International Conference on VLSI Design : held concurrently with 14th International Conference on Embedded Systems : 3-7 January 2015, Bangalore, India : proceedings 2015 / p. 547-552 : ill <https://doi.org/10.1109/VLSID.2015.98> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Dynamic heating control measured and simulated effects on power reduction, energy and indoor air temperature in an old apartment building with district heating**

Hajian, Hatef; Ahmed, Kaiser; **Kurnitski, Jarek** Energy and buildings 2022 / art. 112174 <https://doi.org/10.1016/j.enbuild.2022.112174> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Dynamic slot allocation using non overlapping backoff algorithm in IEEE 802.15.6 WBAN**

**Saboor, Abdul**; Ahmad, Rizwan; Ahmed, Waqas; Kiani, Adnan Khalid; **Alam, Muhammad Mahtab**; Kuusik, Alar; **Le Moullec, Yannick** IEEE sensors journal 2020 / p. 10862-10875 : ill <https://doi.org/10.1109/JSEN.2020.2993795> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Easy to use empirical model for green vegetation reflection spectrum in VIS-NIR range**

**Udal, Andres; Jürise, Martin; Kaugerand, Jaanus; Sell, Raivo** SPIE digital library 2020 / art. 115240H-1–14 <https://doi.org/10.1117/12.2570820> [Conference proceeding](#) [Article at Scopus](#) [Article at WOS](#)

#### **Economic dispatch of CHP units through District Heating Network's demand-side management**

**Rušeljuk, Pavel; Lepiksaar, Kertu; Siirde, Andres; Volkova, Anna** Energies 2021 / art. 4553, 20 p. : ill <https://doi.org/10.3390/en14154553> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **ECS an endeavor towards providing similar cache reliability behavior in different programs**

**Ahmadilivani, Mohammad Hasan; Jahromi, Mohammad Moeini; Salehi, Mostafa E.**; Kargar, Mona Microelectronics Reliability 2024 / art. 115295 <https://doi.org/10.1016/j.microrel.2023.115295> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Editorial - IEA-ECES Annex 31 special issue on thermal energy storage**

**Kurnitski, Jarek**; Haghighat, Fariborz; Mirzaei, Parham A. Energy and buildings 2015 / p. 1-2 <https://doi.org/10.1016/j.enbuild.2015.08.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Editorial : special issue on impedance-source converter topologies and applications**

**Vinnikov, Dmitri**; Li, Yuan; Abu-Rub, Haitham IEEE Transactions on Power Electronics 2016 / p. 7417-7418 <https://doi.org/10.1109/TPEL.2016.2577418> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Editorial deciphering convergence : novel insights and future ideas on science, technology, and industry convergence**

Appio, Francesco Paolo; Broring, Stefanie; Sick, Nathalie; Lee, Sungjoo; **Mora, Luca** IEEE Transactions on Engineering Management 2023 / p. 1389 - 1401 <https://doi.org/10.1109/TEM.2023.3242518> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Effect of droop control curves on the efficiency of dual-active bridge converters**

**Carvalho da Silva, Edivan Laercio; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri** IECON 2023- 49th Annual Conference of the IEEE Industrial Electronics Society IECON Proceedings (Industrial Electronics Conference) 2023 / 6 p <https://doi.org/10.1109/IECON51785.2023.10312056> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **The effect of heat treatment on the morphology and mobility of Au nanoparticles**

**Oras, Sven;** Vlassov, Sergei; Vigonski, Simon; Polyakov, Boris; Antsov, Mikk; Zadin, Vahur; Lõhmus, Rünno; Mougin, Karine  
Beilstein Journal of Nanotechnology 2020 / p. 61-67 <https://doi.org/10.3762/bjnano.11.6> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

### **The effect of ionic liquids on the conductivity of electrospun polyacrylonitrile membranes**

**Savest, Natalja; Plamus, Tiia; Tarasova, Elvira; Viirsalu, Mihkel; Krasnou, Illia; Gudkova, Viktoria; Küppar, Kadi-Anne; Krumme, Andres** Journal of electrostatics 2016 / p. 63-68 : ill <https://doi.org/10.1016/j.elstat.2016.07.006> [Journal metrics at Scopus](#)  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of keysight 3458A jitter on precision of phase difference measurement**

**Pokatilov, Andrei; Kübarsepp, Toomas;** Vabson, Viktor IEEE transactions on instrumentation and measurement 2016 / p. 2595-2600 : ill <https://doi.org/10.1109/TIM.2016.2593965> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The effect of local cold and warm exposure on index finger photoplethysmographic signal waveform**

**Pilt, Kristjan; Meigas, Kalju; Temitski, Kristina; Viigimaa, Margus** 2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2013 / p. 2300-2303 <https://doi.org/10.1109/EMBC.2013.6609997> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Effect of Magnetic Forces and Magnetostriction on the Stator Vibrations of a Bearingless Synchronous Reluctance Motor**

**Mukherjee, Victor; Rasilo, Paavo; Martin, Florian; Belahcen, Anouar** IEEE transactions on magnetics 2019 / 4 p. : ill <https://doi.org/10.1109/TMAG.2019.2894739> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of negative and positive emotions on EEG spectral asymmetry**

**Päeske, Laura; Bachmann, Maie; Lass, Jaanus; Hinrikus, Hiie** 2015 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2015 / p. 8107 - 8110 <https://doi.org/10.1109/EMBC.2015.7320275> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Effect of punching the electrical sheets on optimal design of a permanent magnet synchronous motor**

**Martin, Florian; Aydin, Ugur; Sundaria, Ravi; Rasilo, Paavo; Belahcen, Anouar;** Arkkio, Antero IEEE Transactions on Magnetics 2018 / art. 8102004 <https://doi.org/10.1109/TMAG.2017.2768399> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of Zn:S molar ratio in solution on the properties of ZnS thin films and the formation of ZnS nanorods by spray pyrolysis**

**Dedova, Tatjana; Krunks, Malle; Gromõko, Inga; Mikli, Valdek;** Sildos, Ilmo; Utt, Kathrin; Unt, Tarmo Physica status solidi (a) : applications and materials science 2014 / p. 514-521 : ill <https://doi.org/10.1002/pssa.201300215> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The effect of tin doping on the band structure and optical properties of polycrystalline antimony selenide**

**Uslu, Mehmet Ender; Danilson, Mati; Timmo, Kristi; Grossberg-Kuusk, Maarja** Physica B : condensed matter 2024 / art. 415744 <https://doi.org/10.1016/j.physb.2024.415744> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effective scalable IEEE 1687 instrumentation network for fault management**

**Jutman, Artur; Shibin, Konstantin; Devadze, Sergei** IEEE design & test 2013 / p. 26-35 : ill <https://doi.org/10.1109/MDAT.2013.2278535> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effects of Ar+ etching of Cu<sub>2</sub>ZnSnSe<sub>4</sub> thin films : An x-ray photoelectron spectroscopy and photoluminescence study**

**Yakushev, Michael V.; Sulimov, Mikhail A.; Skidchenko, Ekaterina; Krustok, Jüri** Journal of Vacuum Science & Technology B 2018 / art. 061208, 8 p. : ill <https://doi.org/10.1116/1.5050243> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effects of coupling combined heat and power production with district cooling**

**Lepiksaar, Kertu; Mašatin, Vladislav; Krupenski, Igor; Volkova, Anna** Energies 2023 / art. 4552 <https://doi.org/10.3390/en16124552> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effects of the COVID-19 pandemic on energy systems and electric power grids — a review of the challenges ahead**

**Navon, Aviad; Machlev, Ram; Carmon, David; Onile, Abiodun Emmanuel; Belikov, Juri; Levron, Yoash** Energies 2021 / art. 1056, 14 p. : ill <https://doi.org/10.3390/en14041056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Efficiency optimization of mini unmanned multicopter**

**Penkov, Igor; Aleksandrov, Dmitri** International review of aerospace engineering 2017 / p. 277-281 : ill <https://doi.org/10.15866/irase.v10i5.12132> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Efficiency study of the single-phase solar qZS-based inverter**

**Husev, Oleksandr; Stepenko, Serhii; Vinnikov, Dmitri;** Roncero, Carlos; Santasheva, Elena; Romero-Cadaval, Enrique IECON

**An efficient authentication and key agreement scheme for secure smart grid communication services**

Hammami, Hamza; Obaidat, Mohammad S.; **Ben Yahia, Sadok** International journal of communication systems 2020 / art. e4558, p. 1–13 <https://doi.org/10.1002/dac.4558> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Efficient excitation signals for the fast impedance spectroscopy**

**Ojarand, Jaan; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 144-149 : ill <https://doi.org/10.5755/j01.eee.20.5.7115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An efficient non-inverting buck-boost converter with improved step up/down ability**

**Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri;** Peftitsis, Dimosthenis Energies 2022 / art. 4550 <https://doi.org/10.3390/en15134550> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**ELC-ECG: efficient LSTM cell for ECG classification based on quantized architecture**

Mirsalari, Seyed Ahmad; Nazari, Najmeh; Ansarmohammadi, Seyed Ali; Sinaei, Sima; Salehi, Mostafa E.; **Daneshtalab, Masoud** 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea May 22-28, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISCAS51556.2021.9401261> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Electric vehicles charging infrastructure demand and deployment : challenges and solutions**

**Singh, Praveen Prakash; Wen, Fushuan; Palu, Ivo;** Sachan, Sulabh; Deb, Sanchari Energies 2023 / art. 7 <https://doi.org/10.3390/en16010007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electrical bioimpedance analysis for evaluating the effect of pelotherapy on the human skin : methodology and experiments**

**Metshein, Margus;** Tuulik, Varje-Riin; Tuulik, Viuu; Kumm, Monika; **Min, Mart; Annus, Paul** Sensors 2023 / art. 4251 <https://doi.org/10.3390/s23094251> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electrochemical sensor based on molecularly imprinted polymer for rapid quantitative detection of brain-derived neurotrophic factor**

**Ayankojo, Akinrinade George; Boroznjak, Roman; Reut, Jekaterina; Tuvikene, Jürgen; Timmusk, Tõnis; Sõritski, Vitali** Sensors and Actuators B: Chemical 2023 / art. 134656 <https://doi.org/10.1016/j.snb.2023.134656> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electrode placement strategies for the measurement of radial artery bioimpedance : simulations and experiments**

**Pesti, Ksenija; Metshein, Margus; Annus, Paul; Kõiv, Hip; Min, Mart** IEEE transactions on instrumentation and measurement 2021 / 10 p. : ill <https://doi.org/10.1109/TIM.2020.3011784> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electrospun conductive mats from PANi-ionic liquid blends**

**Savest, Natalja; Plamus, Tiia; Kütt, Kertu; Kallavus, Urve; Viirsalu, Mihkel; Tarasova, Elvira; Vassiljeva, Viktoria; Krasnou, Illia; Krumme, Andres** Journal of electrostatics 2018 / p. 40-44 <https://doi.org/10.1016/j.elstat.2018.09.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An embedded half-bridge  $\Gamma$ -Z-source inverter with reduced voltage stress on capacitors**

**Mashinchi Maheri, Hamed; Vinnikov, Dmitri;** Nozadian, Mohsen Hasan Babayi; Shokati Asl, Elias; Babaei, Ebrahim; **Chub, Andrii** Energies 2021 / art. 6433, 21 p. : ill <https://doi.org/10.3390/en14196433> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**End-to-end multimodal sensor dataset collection framework for autonomous vehicles**

**Gu, Junyi;** Lind, Artjom; Chhetri, Tek Raj; **Bellone, Mauro; Sell, Raivo** Sensors 2023 / art. 6783, 25 p. : ill <https://doi.org/10.3390/s23156783> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy and investment intensity of integrated renovation and 2030 cost optimal savings**

**Kurnitski, Jarek; Kuusk, Kalle; Tark, Teet;** Uutar, Aivar; **Kalamees, Targo; Pikas, Ergo** Energy and buildings 2014 / p. 51-59 : ill <https://doi.org/10.1016/j.enbuild.2014.01.044> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy cascade connection of a low-temperature district heating network to the return line of a high-temperature district heating network**

**Volkova, Anna; Krupenski, Igor;** Ledvanov, Aleksandr; Hlebnikov, Aleksandr; **Lepiksaar, Kertu; Latõšov, Eduard; Mašatin, Vladislav** Energy 2020 / art. 117304, 15 p. : ill <https://doi.org/10.1016/j.energy.2020.117304> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy demand for the heating and cooling of residential houses in Finland in a changing climate**

Jylhä, Kirsti; Jokisalo, Juha; **Kalamees, Targo** Energy and buildings 2015 / p. 104-116 : ill <https://doi.org/10.1016/j.enbuild.2015.04.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy efficiency and connectivity maximization for massive machine type communication in multi-cell NOMA**

**Latif, Aamir; Elgarhy, Osama Mohamed Mostafa; Le Moullec, Yannick; Alam, Muhammad Mahtab** 2024 19th Biennial Baltic Electronics Conference (BEC) : October 2-4, 2024, Estonia 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737950> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Energy management of an isolated microgrid : a practical case**

Ghasemi-Marzbali, Ali; **Ahmadihangar, Roya**; Gouran Orimi, Sina; Shafiei, Mohammad; **Häring, Tobias; Rosin, Argo** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 13-16 October 2021, Toronto, ON, Canada 2021 / 6 p. : ill <https://doi.org/10.1109/IECON48115.2021.9589801> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Energy performance certificate classes rating methods tested with data : how does the application of minimum energy performance standards to worst-performing buildings affect renovation rates, costs, emissions, energy consumption?**

**Ferrantelli, Andrea; Kurnitski, Jarek** Energies 2022 / art. 7552 <https://doi.org/10.3390/en15207552> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metric at WOS](#) [Article at WOS](#)

**Energy performance of radiators with parallel and serial connected panels**

**Maivel, Mikk**; Konzelmann, Martin; **Kurnitski, Jarek** Energy and buildings 2015 / p. 745-753 : ill <https://doi.org/10.1016/j.enbuild.2014.10.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy pile field simulation in large buildings: validation of surface boundary assumptions**

**Ferrantelli, Andrea; Fadejev, Jevgeni; Kurnitski, Jarek** Energies 2019 / art. 770, 20 p. : ill <https://doi.org/10.3390/en12050770> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy storage facilities impact on flexibility of active distribution networks: stochastic approach**

Alipour, Manijeh; Gharehpetian, Gevork B.; **Ahmadihangar, Roya; Rosin, Argo; Kilter, Jako** Electric power systems research 2022 / art. 108645 <https://doi.org/10.1016/j.epsr.2022.108645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy storage for 1500 V photovoltaic systems : A comparative reliability analysis of DC-and AC-Coupling**

He, Jinkui; Yang, Yongheng; **Vinnikov, Dmitri** Energies 2020 / art. 3355, 16 p. : ill <https://doi.org/10.3390/en13133355> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy storage for mitigating grid congestion caused by electric vehicles : a techno-economic analysis using a computationally efficient graph-based methodology**

Navon, Aviad; Nitskansky, Ran; Lipman, Eshel; **Belikov, Juri**; Gal, Nurit; Orda, Ariel; Levron, Yoash Journal of energy storage 2023 / art. 106324 <https://doi.org/10.1016/j.est.2022.106324> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy use and indoor climate of conservation heating, dehumidification and adaptive ventilation for the climate control of a mediaeval church in a cold climate**

**Napp, Margus; Kalamees, Targo** Energy and buildings 2015 / p. 61-71 : ill <https://doi.org/10.1016/j.enbuild.2015.08.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Energy-efficient operation of linear Delta robots with an artificial intelligence model**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard; Semjonova, Natalia** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 5 p <https://doi.org/10.1109/BEC61458.2024.10737977> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Enhanced efficiency of hybrid amorphous silicon solar cells based on single-walled carbon nanotubes and polymer composite thin film**

Rajanna, Pramod M.; Gilshteyn, Evgenia P.; Yagafarov, Timur; Alekseeva, Alena A.; Anisimov, Anton S.; Neumüller, Alex; Sergeev, Oleg; **Bereznev, Sergei; Maricheva, Jelena**; Nasibulin, Albert Nanotechnology 2018 / 10 p. : ill <https://doi.org/10.1088/1361-6528/aaa647> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhanced optical and thermal conductivity properties of barium titanate ceramic via strontium doping for thermo-optical applications**

Tihtih, Mohammed; Ibrahim, Jamal Eldin F. M.; Basyooni, Mohamed A.; En-nadir, Redouane; Belaid, Walid; Abdelfattah, Mohamed M.; **Hussainova, Irina**; Pszota, Gabor; Kocserha, Istvan Optical and Quantum Electronics 2023 / art. 226, 20 p. : ill <https://doi.org/10.1007/s11082-022-04516-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhanced optimization of the wideband excitation signal for a bioimpedance measurement**

Ojarand, Jaan; **Rist, Marek; Min, Mart** 2015 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2015) : May 11-14, 2015, Pisa, Italy : proceedings 2015 / p. 1801-1806 : ill <https://doi.org/10.1109/I2MTC.2015.7151554> [Conference](#)



[proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Enhanced sensing properties of cobalt bis-porphyrin derivative thin films by a magneto-plasmonic-opto-chemical sensor**

Colombelli, A.; Manera, Maria Grazia; **Borovkov, Victor**; Giancane, Gabriele Sensors and actuators B : chemical 2017 / p. 1039-1048 : ill <https://doi.org/10.1016/j.snb.2017.01.192> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhancement of photoluminescence of GaAsBi quantum wells by parabolic design of AlGaAs barriers**

Pukiene, Simona; Karaliunas, Mindaugas; Jasinskas, A.; **Udal, Andres** Nanotechnology 2019 / art. 455001, 11 p. : ill <https://doi.org/10.1088/1361-6528/ab36f3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhancing bandgap depth in locally resonant metastructures via notch-filtered piezoelectric actuation**

**Alimohammadi, Hossein; Vassiljeva, Kristina**; HosseinNia, S. Hassan; **Petlenkov, Eduard** 2024 IEEE International Conference on Industrial Technology (ICIT) 2024 <https://doi.org/10.1109/ICIT58233.2024.10540976> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Enhancing fingerprinting-based 5G positioning accuracy with directionally transmitted synchronization signals**

**Müürsepp, Ivo; Alam, Muhammad Mahtab** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p. <https://doi.org/10.1109/BEC61458.2024.10737987> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Ensemble approach for detection of depression using EEG features**

Avots, Egils; Jermakovs, Klavs; **Bachmann, Maie; Päeske, Laura**; Ozcinar, Cagri; Anbarjafari, Gholamreza Entropy 2022 / art. 211 <https://doi.org/10.3390/e24020211> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enzymatic conversion of hydrolysis lignin - a potential biorefinery approach**

Khan, Sharib; Puss, Kait Kaarel; **Lukk, Tiit**; Loog, Mart; Kikas, Timo; Salmar, Siim Energies 2023 / art. 370, 13 p. : ill <https://doi.org/10.3390/en16010370> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**ESTCube-1 in-orbit experience and lessons learned**

Slavinskis, Andris; Pajusalu, Mihkel; Kuuste, Henri; Ilbis, Erik; Eenmäe, Tõnis; Sunter, Indrek; Laizans, Kaspars; **Ehrpais, Hendrik; Liias, Paul**; Kulu, Erik IEEE aerospace and electronic systems magazine 2015 / art. 7286959, p. 12-22 : ill <https://doi.org/10.1109/MAES.2015.150034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Estimating sparse signals using integrated wideband dictionaries**

**Butsenko, Maksim**; Swärd, Johan; Jakobsson, Andreas IEEE Transactions on Signal Processing 2018 / p. 4170-4181 : ill <https://doi.org/10.1109/TSP.2018.2835426> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Estimating sparse signals using integrated wide-band dictionaries**

**Butsenko, Maksim**; Swärd, Johan; Jakobsson, Andreas 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 4426-4430 : ill <https://doi.org/10.1109/ICASSP.2017.7952993> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Estimation of flow turbulence metrics with a lateral line probe and regression**

Chen, Ke; **Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert**; Musall, Mark; Strokina, Nataliya; Kämäräinen, Joni-Kristian; **Kruusmaa, Maarja** IEEE transactions on instrumentation and measurement 2017 / p. 651-660 : ill <https://doi.org/10.1109/TIM.2017.2658278> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Estimation of power system inertia from ambient wide area measurements**

**Tuttelberg, Kaur; Kilter, Jako**; Wilson, Douglas; Uhlen, Kjetil IEEE transactions on power systems 2018 / p. 7249-7257 <https://doi.org/10.1109/TPWRS.2018.2843381> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Estimation of removed uremic toxin indoxyl sulphate during hemodialysis by using optical data of the spent dialysate**

**Holmar, Jana; Uhlin, Nils Fredrik Arne; Ferenets, Rain; Lauri, Kai; Tanner, Risto; Arund, Jürgen; Luman, Merike; Fridolin, Ivo** The 2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) proceedings 2013 / p. 6707-6710 : ill <https://doi.org/10.1109/EMBC.2013.6611095> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Estimation of transmission loss components from phasor measurements**

**Tuttelberg, Kaur; Kilter, Jako** International journal of electrical power & energy systems 2018 / p. 62-71 : ill <https://doi.org/10.1016/j.ijepes.2017.11.040> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**European roadmap for the En-ActivETICS advancement and potential of the PV/PCM unventilated wall system application**

Heim, Dariusz; **Talvik, Martin**; Wieprzkowicz, Anna; **Ilomets, Simo**; Knera, Dominika; **Kalamees, Targo**; Czarny, Dariusz Energy and buildings 2023 / art. 113207 <https://doi.org/10.1016/j.enbuild.2023.113207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluating architectural, redundancy, and implementation strategies for radiation hardening of FinFET integrated circuits**

**Pagliarini, Samuel Nascimento**; Benites, Luis; Martins, Mayler; Rech, Paolo; Kastensmidt, Fernanda IEEE transactions on nuclear

science 2021 / p. 1045-1053 <https://doi.org/10.1109/TNS.2021.3070643> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluating outdoor thermal comfort using a mixed-method to improve the environmental quality of a university campus**  
**Eslamirad, Nasim; Sepulveda Luque, Abel; De Luca, Francesco; Lylykangas, Kimmo Sakari** Energies 2022 / art. 1577, 26 p. : ill <https://doi.org/10.3390/en15041577> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluation of deep neural network compression methods for edge devices using weighted score-based ranking scheme**  
**Ademola, Olutosin Ajibola; Leier, Mairo; Petlenkov, Eduard** Sensors 2021 / art. 7529 <https://doi.org/10.3390/s21227529> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluation of high performance aluminum for microwave filters**  
Martin-Iglesias, P.; **Raadik, Taavi**; Teberio, F.; Percz, J.M.; Martin-Iglesias, S.; Pambaguian, L.; Arregui, I.; Laso, M.A.G. 2019 IEEE MTT-S International Microwave Symposium (IMS), Boston, Massachusetts, 2-7 June 2019 : proceedings 2019 / p. 1183-1186 <https://doi.org/10.1109/MWSYM.2019.8700938> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Evaluation of level-crossing ADCs for event-driven ECG classification**  
Saeed, Maryam; Wang, Qingyuan; **Märtens, Olev** IEEE Transactions on Biomedical Circuits and Systems 2021 / p. 1129-1139 <https://doi.org/10.1109/TBCAS.2021.3136206> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Evaluation of renovation strategies : cost-optimal, COle optimal, or total energy optimal**  
**Kertsmik, Kadri-Ann; Kuusk, Kalle; Lylykangas, Kimmo Sakari; Kalamees, Targo** Energy and buildings 2023 / art. 112995 <https://doi.org/10.1016/j.enbuild.2023.112995> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Event detection based on open information extraction and ontology**  
Sahnoun, Sihem; Elloumi, Samir; **Ben Yahia, Sadok** Journal of Information and Telecommunication 2020 / p. 383-403 <https://doi.org/10.1080/24751839.2020.1763007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Event-driven ECG classification using an open-source, LC-ADC based non-uniformly sampled dataset**  
Saeed, Maryam; Wang, Qingyuan; **Märtens, Olev**; Larras, Benoit; Frappe, Antoine; Cardiff, Barry; John, Deepu 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea May 22-28, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISCAS51556.2021.9401333> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Event-triggered resilient distributed extended Kalman filter with consensus on estimation**  
Rezaei, Hossein; **Ghorbani, Majid** International Journal of Robust and Nonlinear Control 2022 / p. 1303 - 1315 <https://doi.org/10.1002/rnc.5881> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**An evolutionary field theorem : evolutionary field optimization in training of power-weighted multiplicative neurons for nitrogen oxides-sensitive electronic nose applications**  
Alagoz, Baris Baykant; Simsek, Ozlem Imik; Ari, Davut; **Tepljakov, Aleksei; Petlenkov, Eduard; Alimohammadi, Hossein** Sensors 2022 / art. 3836 <https://doi.org/10.3390/s22103836> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental comparison of two-level full-SiC and three-level Si-SiC quasi-Z-source inverters for PV applications**  
**Stepenko, Serhii; Husev, Oleksandr; Vinnikov, Dmitri; Roncero-Clemente, Carlos; Pires Pimentel, Sergio; Santasheva, Elena** Energies 2019 / 2509 ; 17 p. : ill <https://doi.org/10.3390/en12132509> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental determination of radiator, underfloor and air heating emission losses due to stratification and operative temperature variations**  
**Maivel, Mikk; Ferrantelli, Andrea; Kurnitski, Jarek** Energy and buildings 2018 / p. 220-228 : ill <https://doi.org/10.1016/j.enbuild.2018.01.061> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental evaluation of a new carrier-based modulation method for a three-level T-type quasi-impedance-source inverter**  
Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; Barrero-Gonzalez, Fermin; **Husev, Oleksandr; Gonzalez-Romera, Eva; Milanes-Montero, Maria Isabel** IET power electronics 2022 / p. 337-348 <https://doi.org/10.1049/pel2.12234> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental investigation of air distribution and ventilation efficiency in an ice rink arena**  
Toomla, Sander; Lestinen, Sami; Kilpeläinen, Simo; Leppä, Lauri; Kosonen, Risto; **Kurnitski, Jarek** International journal of ventilation 2019 / p. 187-203 : ill <https://doi.org/10.1080/14733315.2018.1437881> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental Investigation of high frequency 3L-NPC qZS inverter for photovoltaic application**  
**Husev, Oleksandr; Stepenko, Serhii; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Strzelecki, Ryszard** Proceedings :

IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5969-5974 : ill <https://doi.org/10.1109/IECON.2013.6700114> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**An experimental study of building blocks of lattice-based NIST post-quantum cryptographic algorithms**

**Imran, Malik; Abideen, Zain Ul; Pagliarini, Samuel Nascimento** Electronics 2020 / art. 1953, 26 p. : ill

<https://doi.org/10.3390/electronics9111953> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Explainability and transparency of classifiers for air-handling unit faults using explainable artificial intelligence (XAI)**

**Meas, Molika; Machlev, Ram; Köse, Ahmet; Tepljakov, Aleksei; Loo, Lauri; Levron, Yoash; Petlenkov, Eduard; Belikov, Juri**

Sensors 2022 / art. 6338 : ill <https://doi.org/10.3390/s22176338> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

**Explaining the decisions of power quality disturbance classifiers using latent space features**

Machlev, Ram; Perl, Michael; Caciularu, Avi; **Belikov, Juri**; Levy, Kfir Yehuda; Levron, Yoash International journal of electrical power &

energy systems 2023 / art. 108949 <https://doi.org/10.1016/j.ijepes.2023.108949> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal](#)

[metrics at WOS](#) [Article at WOS](#)

**Exploratory data analysis based short-term electrical load forecasting : a comprehensive analysis**

Javed, Umar; Ijaz, Khalid; **Shabbir, Noman; Kütt, Lauri; Husev, Oleksandr** Energies 2021 / art. 5510

<https://doi.org/10.3390/en14175510> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Exploring internally coupled resonator's dynamics and spatial variability in metamaterials for vibration suppression**

**Alimohammadi, Hossein; Vassiljeva, Kristina; HosseinNia, S. Hassan; Petlenkov, Eduard** Active and Passive Smart Structures

and Integrated Systems XVII 2024 / art. 1294614 <https://doi.org/10.1117/12.3024067> [Conference Proceedings at Scopus](#) [Article at](#)

[Scopus](#) [Article at WOS](#)

**Exploring the limits of early predictive maintenance in wind turbines applying an anomaly detection technique**

Jankauskas, Mindaugas; Serackis, Artūras; Šapurov, Martynas; Pomarnacki, Raimondas; Baskys, Algirdas; Hyunh, Van Khang;

**Vaimann, Toomas; Zakis, Janis** Sensors 2023 / art. 5695 <https://doi.org/10.3390/s23125695> [Journal metrics at Scopus](#) [Article at](#)

[Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Exponential to ZIP and ZIP to exponential load model conversion : methods and error**

**Leinakse, Madis; Kilter, Jako** IET generation, transmission & distribution 2021 / p. 177-193 <https://doi.org/10.1049/gtd2.12002> [Journal](#)

[metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Extended observer forms for submersive discrete-time systems**

Simha, Ashutosh; **Kaparin, Vadim; Mullari, Tanel; Kotta, Ülle** IEEE Transactions on Automatic Control 2023 / p. 2684 - 2688

<https://doi.org/10.1109/TAC.2023.3336253> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Extra cost analyses of two apartment buildings for achieving nearly zero and low energy buildings**

**Pikas, Ergo; Thalfeldt, Martin; Kurnitski, Jarek; Liias, Roode** Energy 2015 / p. 623-633 : ill

<https://doi.org/10.1016/j.energy.2015.03.026> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fabrication of localized diamond-filled copper structures via selective laser melting and spark plasma sintering**

**Rahmani Ahranjani, Ramin; Karimi, Javad; Kamboj, Nikhil; Kumar, Rahul, 1993-; Brojan, Miha; Tchórz, Adam; Skrabalak,**

Grzegorz; Lopes, Sergio Ivan Diamond and related materials 2023 / art. 109916 <https://doi.org/10.1016/j.diamond.2023.109916> [Journal](#)

[metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fabrication, potentiometric characterization, and application of screen-printed RuO<sub>2</sub> pH electrodes for water quality testing**

Uppuluri, Kiranmai; **Lazouskaya, Maryna**; Szwagierczak, Dorota; Zaraska, Krzysztof; Tamm, Martti Sensors 2021 / art. 5399, 15 p. :

ill <https://doi.org/10.3390/s21165399> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Facade design principles for nearly zero energy buildings in a cold climate**

**Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek; Voll, Hendrik** Energy and buildings 2013 / p. 309-321 : ill

<https://doi.org/10.1016/j.enbuild.2013.08.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fast data sort based on searching networks with ring pipeline**

Sklyarov, Valery; Skliarova, Ioulia; **Sudnitsón, Aleksander** Elektronika ir elektrotechnika = Electronics and electrical engineering

2016 / p. 58-62 : ill <https://doi.org/10.5755/j01.eie.22.4.15920> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article](#)

[at WOS](#)

**Fast identification of true critical paths in sequential circuits**

**Ubar, Raimund-Johannes; Kostin, Sergei; Jenihhin, Maksim; Raik, Jaan; Jürimägi, Lembit** Microelectronics reliability 2018 /

p. 252-261 : ill <https://doi.org/10.1016/j.microrel.2017.11.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article](#)

[at WOS](#)

#### **Fast matrix covering in all programmable systems-on-chip**

Sklyarov, Valery; Skliarova, Iuliia; **Rjabov, Artjom; Sudnitsõn, Aleksander** Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 150-153 : ill <https://doi.org/10.5755/j01.eee.20.5.7116> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Fast processing of non-repeated values in hardware**

Skliarova, Iuliia; Sklyarov, Valery; **Sudnitsõn, Aleksander** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 74-77 : ill <https://doi.org/10.5755/j01.eie.23.3.18336> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **FastStereoNet : A fast neural architecture search for improving the inference of disparity estimation on resource-limited platforms**

Loni, Mohammad; Zoljodi, Ali; Majd, Amin; Ahn, Byung Hoon; **Daneshtalab, Masoud**; Sjödin, Mikael; Esmaeilzadeh, Hadi IEEE Transactions on Systems, Man, and Cybernetics : Systems 2022 / p. 5222-5234 : ill <https://doi.org/10.1109/TSMC.2021.3123136> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Fault detecting accuracy of mechanical damages in rolling bearings**

**Kudelina, Karolina; Baraškova, Tatjana; Shirokova, Veroonika; Vaimann, Toomas; Rassõlkin, Anton** Machines 2022 / art. 86 <https://doi.org/10.3390/machines10020086> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Fault-tolerant control of a grid-connected bipolar DC microgrid with high penetration of intermittent renewable energy**

Senanayaka, Jagath; Khang, Huynh Van; **Rassõlkin, Anton; Vaimann, Toomas**; Zakis, Janis; Pomarnacki, Raimondas IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6 <https://doi.org/10.1109/IECON49645.2022.9968572> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Faulty plant reconfiguration based on disturbance decoupling methods**

**Kaldmäe, Arvo; Kotta, Ülle**; Jiang, Bin; Shumsky, Alexey Ye.; Zhirabok, Alexey N. Asian journal of control 2016 / p. 858-867 : ill <https://doi.org/10.1002/asjc.1185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Feasibility study GaN transistors application in the novel split-coils inductive power transfer system with T-Type inverter**

Shevchenko, Viktor; Pakhaliuk, Bohdan; **Husev, Oleksandr**; Veligorskyi, Oleksandr; Stepins, Deniss; Strzelecki, Ryszard Energies 2020 / art. 4535, 16 p. : ill <https://doi.org/10.3390/en13174535> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Feasibility study of interleaving approach for Quasi-Z-Source inverter**

**Stepenko, Serhii; Husev, Oleksandr; Vinnikov, Dmitri**; Fesenko, Artem; **Matiushkin, Oleksandr** Electronics 2020 / art. 277, 11 p. : ill <https://doi.org/10.3390/electronics9020277> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Feasibility study of model predictive control for grid-connected twisted buck-boost inverter**

**Matiushkin, Oleksandr; Husev, Oleksandr**; Rodriguez, Jose; Young, Hector; **Roasto, Indrek** IEEE transactions on industrial electronics 2022 / p. 2488-2499 <https://doi.org/10.1109/TIE.2021.3068663> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Feasibility study of Si and SiC MOSFETs in high-gain DC/DC converter for renewable energy applications**

**Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri; Rang, Toomas** Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5975-5978 : ill <https://doi.org/10.1109/IECON.2013.6700115> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Feature article: Firmware updating systems for nanosatellites**

Sünter, Indrek; Slavinskis, Andris; Kvell, Urmas; **Vahter, Andres**; Kuuste, Henri; Noorma, Mart; Kutt, Johan; Vendt, Riho; Tarbe, Karl; Pajusalu, Mihkel; Veske, Mihkel; Ilves, Taavi IEEE Aerospace and Electronic Systems Magazine 2016 / p. 36 - 44 <https://doi.org/10.1109/MAES.2016.150162> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **FedBranched : leveraging federated learning for anomaly-aware load forecasting in energy networks**

Manzoor, Habib Ullah; Khan, Ahsan Raza; Flynn, David; **Alam, Muhammad Mahtab**; Akram, Muhammad; Imran, Muhammad Ali; Zoha, Ahmed Sensors 2023 / art. 3570 <https://doi.org/10.3390/s23073570> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Feedback linearization and lattice theory**

**Kotta, Ülle; Tõnso, Maris**; Shumsky, Alexey Ye.; Zhirabok, Alexey N. Systems & control letters 2013 / p. 248-255 <https://doi.org/10.1016/j.sysconle.2012.11.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Fiducial point estimation solution for impedance cardiography measurements**

**Märtens, Olev; Metshein, Margus; Abdullayev, Anar**; Larras, Benoit; Frappe, Antoine; Gautier, Antoine; Saeed, Maryam; John,



Deepu; Cardiff, Barry; Krivošei, Andrei; **Annus, Paul; Rist, Marek** 2022 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) 2022 / Code 180602 <https://doi.org/10.1109/I2MTC48687.2022.9806596> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **FILOSE for svenning : a flow sensing bioinspired robot**

**EL Daou, Hadi; Ježov, Jaas; Jung, David S.; Kruusmaa, Maarja; Listak, Madis; Salumäe, Taavi; Toming, Gert** IEEE robotics and automation magazine 2014 / p. 51-62 : ill <https://doi.org/10.1109/MRA.2014.2322287> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Finite determination of accessibility and singular points of nonlinear systems: an algebraic approach**

Sarafrazi, Mohammad Amin; **Kotta, Ülle**; Bartosiewicz, Zbigniew Systems & control letters 2020 / art. 104600, p. 1–7 <https://doi.org/10.1016/j.sysconle.2019.104600> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **First principles simulations of phenol and methanol detector based on pristine graphene nanosheet and armchair graphene nanoribbons**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** Sensors 2019 / art. 2731, 14 p. : ill <https://doi.org/10.3390/s19122731> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Flatness based control of a HVAC system**

**Kaldmäe, Arvo; Kotta, Ülle** Information technology and control 2017 / p. 499-507 : ill <https://doi.org/10.5755/j01.itc.46.4.17697> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Flexible data acquisition system with custom front-end for ultrasonic NDT research**

**Peng, Chengxiang; Ratassepp, Madis; Annus, Paul; Rist, Marek; Land, Raul; Märten, Olev** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 4 p <https://doi.org/10.1109/BEC61458.2024.10737989> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **A flexible enhanced throughput and reduced overhead (FETRO) MAC protocol for ETSI SmartBAN**

**Khan, Rida; Alam, Muhammad Mahtab**; Guizani, Mohsen IEEE Transactions on Mobile Computing 2022 / p. 2671-2686 : ill <https://doi.org/10.1109/TMC.2020.3047596> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Flow aided path following of an underwater robot**

**Jung, David S.; Pott, Peter P.; Salumäe, Taavi; Kruusmaa, Maarja** 2013 IEEE International Conference on Robotics and Automation (ICRA) : Karlsruhe, Germany, May 6-10, 2013 2013 / p. 4602-4607 : ill <https://doi.org/10.1109/ICRA.2013.6631231> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Flow feature extraction for underwater robot localization : preliminary results**

**Muhammad, Naveed**; Strokina, Nataliya; **Toming, Gert; Tuhtan, Jeffrey Andrew**; Kämäräinen, Joni-Kristian; **Kruusmaa, Maarja** 2015 IEEE International Conference on Robotics and Automation (ICRA) : Washington State Convention Center, Seattle, Washington, May 26-30, 2015 2015 / p. 1125-1130 : ill <https://doi.org/10.1109/ICRA.2015.7139317> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Flow velocity estimation using a fish-shaped lateral line probe with product-moment correlation features and a neural network**

**Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert; Kruusmaa, Maarja** Flow measurement and instrumentation 2017 / p. 1-8 : ill <https://doi.org/10.1016/j.flowmeasinst.2016.10.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Food recognition and food waste estimation using convolutional neural network**

Lubura, Jelena; Pezo, Lato; Sandu, Mirela Alina; **Voronova, Viktoria**; Donsi, Francesco; Šic Žlabur, Jana; Ribic, Bojan; Peter, Anamarija; Šuric, Jona; Brandic, Ivan; **Klōga, Marija** Electronics 2022 / art. 3745 <https://doi.org/10.3390/electronics11223746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Forecasting of energy consumption and production using recurrent neural networks**

**Shabbir, Noman; Kütt, Lauri**; Jawad, Muhammad; **Iqbal, Muhammad Naveed**; Ghahfarokhi, Payam Shams Advances in electrical and electronic engineering 2020 / p. 190–197 <https://doi.org/10.15598/aeet.v18i3.3597> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Forecasting of wind speed and power through FFNN and CFNN using HPSOBA and MHP SO-BAACs techniques**

Ellahi, Manzoor; Usman, Muhammad Rehan; Arif, Waqas; Usman, Hafiz Fuad; Khan, Waheed A.; Satrya, Gandeve Bayu; **Daniel, Kamran; Shabbir, Noman** Electronics 2022 / art. 4193 <https://doi.org/10.3390/electronics11244193> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Formation of uniform PVDF fibers under ultrasound exposure in presence of anionic surfactant**

**Tarasova, Elvira; Tamberg, K.-G.; Viirsalu, Mihkel; Savest, Natalja; Gudkova, Viktoria; Krasnou, Illia; Krumme, Andres** Journal of electrostatics 2015 / p. 39-47 : ill <https://doi.org/10.1016/j.elstat.2015.05.004> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Forward and backward shifts of vector fields : towards the dual algebraic framework**

**Mullari, Tanel; Kotta, Ülle;** Bartosiewicz, Zbigniew; Pawluszewicz, Ewa; Moog, Claude IEEE transactions on automatic control 2017 / p. 3029-3033 <https://doi.org/10.1109/TAC.2016.2608718> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Forward and backward walking : multifactorial characterization of gait parameters**

Donno, Lucia; **Monoli, Cecilia;** Frigo, Carlo Albino; Galli, Manuela Sensors 2023 / art. 4671 <https://doi.org/10.3390/s23104671> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Four novel PWM shoot-through control methods for impedance source DC-DC converters**

**Vinnikov, Dmitri; Roasto, Indrek; Liivik, Liisa; Blinov, Andrei** Journal of power electronics 2015 / p. 299-308 : ill <https://doi.org/10.6113/JPE.2015.15.2.299> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**4.9 % efficient Sb2S3 solar cells from semi-transparent absorbers with fluorene-based thiophene terminated hole conductors**

**Mandati, Sreekanth; Juneja, Nimish; Katerski, Atanas;** Jegorove, Aiste; Grzibovskis, Raitis; Vembris, Aivars; **Dedova, Tatjana; Spalatu, Nicolae;** Magomedov, Artiom; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle; Oja Acik, Ilona** ACS Applied Energy Materials 2023 / p. 3822–3833 <https://doi.org/10.1021/acsaem.2c04097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fractional Fourier transform-based signal separation for ultrasonic guided wave inspection of plates**

**Peng, Chengxiang; Annus, Paul; Rist, Marek; Land, Raul; Ratassepp, Madis** Sensors 2024 / art. 7564 <https://doi.org/10.3390/s24237564> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fractional-order modeling and control of ionic polymer-metal composite actuator**

**Tepljakov, Aleksei;** Vunder, Veiko; **Petlenkov, Eduard;** Nakshatharan, S Sunjai; Punning, Andres; **Kaparin, Vadim; Belikov, Juri;** Aabloo, Alvo Smart materials and structures 2019 / 12 p. : ill <https://doi.org/10.1088/1361-665X/ab2c75> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Frankenstack : toward real-time red team feedback**

**Kont, Markus; Pihelgas, Mauno; Maennel, Kaie;** Blumbergs, Bernhards; **Lepik, Toomas** MILCOM 2017 - 2017 IEEE Military Communications Conference : Baltimore, Maryland, USA, 23-25 October 2017 2017 / p. 400-405 : ill <https://doi.org/10.1109/MILCOM.2017.8170852> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Frictional wear and corrosion behavior of AlCoCrFeNi high-entropy alloy coatings synthesized by atmospheric plasma spraying**

**Mu, Yongkun;** Zhang, Liangbo; Xu, Long; **Prashanth, Konda Gokuldoss;** Zhang, Nizhen; Ma, Xindi; Jia, Yuefei; Xu, Yulai; Jia, Yandong; Wang, Gang Entropy 2020 / art. 740 <https://doi.org/10.3390/e22070740> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fuel economy regression analyses for hybrid electric vehicle**

**Vu, Trieu Minh; Moezzi, Reza;** Owe, Israel European journal of electrical engineering 2018 / p. 363–377 <https://doi.org/10.3166/ejee.20.363-377> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Full-bridge fault-tolerant isolated DC-DC converters : overview of technologies and application challenges**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri** IEEE Power Electronics Magazine 2022 / p. 45-55 <https://doi.org/10.1109/MPEL.2022.3196565> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Full-soft-switching high step-up bidirectional isolated current-fed push-pull DC-DC converter for battery energy storage applications [Online resource]**

**Kosenko, Roman; Chub, Andrii; Blinov, Andrei** Proceedings of the IECON2016 - 42nd Annual Conference of the Industrial Electronics Society : Florence (Italy), October 24-27, 2016 2016 / p. 6548-6553 : ill <https://doi.org/10.1109/IECON.2016.7794014> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Fundamentals, recent advances, and future challenges in bioimpedance devices for healthcare applications**

Naranjo-Hernandez, David; Reina-Tosina, Javier; **Min, Mart** Journal of sensors 2019 / art. 9210258, 42 p. : ill <https://doi.org/10.1155/2019/9210258> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Further results on identifiability of discrete-time nonlinear systems**

**Nömm, Sven;** Moog, Claude Automatica 2016 / p. 69-74 : ill <https://doi.org/10.1016/j.automatica.2016.01.054> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fused hybrid linkers for metal–organic framework-derived bifunctional oxygen electrocatalysts**

**Ping, Kefeng;** Braschinsky, Alan; **Alam, Mahboob; Bhadoria, Rohit; Mikli, Valdek; Mere, Arvo;** Aruväli, Jaan; Paiste, Päärm;

Vlassov, Sergei; Kook, Mati; Rähn, Mihkel; Sammelselg, Väino; Tammeveski, Kaido; Kongi, Nadežda; **Starkov, Pavel** ACS Applied Energy Materials 2020 / p. 152–157 : ill <https://doi.org/10.1021/acsaem.9b02039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Galvanically isolated quasi-Z-source DC-DC converter with a novel ZVS and ZCS technique**

Husev, Oleksandr; Liivik, Liisa; Blaabjerg, Frede; Chub, Andrii; Vinnikov, Dmitri; Roasto, Indrek IEEE transactions on industrial electronics 2015 / p. 7547-7556 : ill <https://doi.org/10.1109/TIE.2015.2455522> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Galvanically isolated quasi-Z-source DC-DC converters with combined energy transfer for renewable energy sources integration**

Chub, Andrii; Vinnikov, Dmitri; Jalakas, Tanel 2015 IEEE International Conference on Industrial Technology (ICIT 2015) : Seville, Spain, 17-19 March 2015 2015 / p. 2896-2900 : ill <https://doi.org/10.1109/ICIT.2015.7125525> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**A generalized control paradigm for storage systems : optimal energy management and stability certificates**

Chowdhury, Nilanjan Roy; Baimel, Dmitry; **Belikov, Juri**; Levron, Yoash IEEE Transactions on Control Systems Technology 2023 / p. 2920-2927 <https://doi.org/10.1109/TCST.2023.3269808> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Geothermal energy piles and boreholes design with heat pump in a whole building simulation software**

Fadejev, Jevgeni; Kurnitski, Jarek Energy and buildings 2015 / p. 23-34 : ill <https://doi.org/10.1016/j.enbuild.2015.06.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Grid integration of DC buildings : standards, requirements and power converter topologies**

Carvalho da Silva, Edivan Laercio; Blinov, Andrei; Chub, Andrii; Emiliani, Pietro; de Carne, Giovanni; Vinnikov, Dmitri IEEE open journal of power electronics 2022 / p. 798-823 <https://doi.org/10.1109/OJPEL.2022.3217741> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Grid-connected photovoltaic systems : an overview of recent research and emerging PV converter technology**

Kouro, Samir; Leon, Jose I.; Vinnikov, Dmitri; Franquelo, Leopoldo G. IEEE industrial electronics magazine 2015 / p. 47-61 : ill <https://doi.org/10.1109/MIE.2014.2376976> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Grid-connected PV system based on a single-phase three-level qZS inverter**

Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Husev, Oleksandr; Vinnikov, Dmitri; Stepenko, Serhii Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5979-5984 : ill <https://doi.org/10.1109/IECON.2013.6700116> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Grid-connected single-phase 3L-T-type qZS inverter for renewable energy**

Roncero-Clemente, Carlos; Husev, Oleksandr; Ruiz-Cortes, Mercedes; Romero-Cadaval, Enrique; Barrero-Gonzalez, Fermin; Gonzalez-Romera, Eva IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5003-5007 : ill <https://doi.org/10.1109/IECON.2019.8926888> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Grid-forming operation of energy-router based on model predictive control with improved dynamic performance**

Najafzadeh, Mahdiyyeh; Strzelecka, Natalia; Husev, Oleksandr; Roasto, Indrek; Nasserredine, Kawsar; Vinnikov, Dmitri; Strzelecki, Ryszard Energies 2022 / 14 p. : ill <https://doi.org/10.3390/en15114010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Grounding and isolation requirements in DC microgrids: overview and critical analysis**

Azizi, Mohammadreza; Husev, Oleksandr; Veligorskyi, Oleksandr; Rahimpour, Saeed; Roncero-Clemente, Carlos Energies 2023 / art. 7747, 23 p. : ill <https://doi.org/10.3390/en16237747> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Growth dynamics of nanocrystalline diamond films produced by microwave plasma enhanced chemical vapor deposition in methane/hydrogen/air mixture : scaling analysis of surface morphology**

Podgurski, Vitali; Bogatov, Andrei; Sedov, V.; Sildos, Ilmo; Mere, Arvo; Viljus, Mart; Buijnsters, J. G.; Ralchenko, V. Diamond and related materials 2015 / p. 172-179 : ill <https://doi.org/10.1016/j.diamond.2015.07.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Guest editorial: Smart cities 2.0 : how artificial intelligence and internet of things are transforming urban living**

Chai, Zheng-Yi; Shah, Syed Attique; Draheim, Dirk; Hameed, Sufian; Rathore, Muhammad Mazhar Ullah IET Smart Cities 2024 / p. 129-131 <https://doi.org/10.1049/smc2.12091> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Hairpin windings for electric vehicle motors : modeling and investigation of AC loss-mitigating approaches**

Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; Kallaste, Ants; Belahcen, Anouar; Vaimann,

**Toomas** Machines 2022 / art. 1029 <https://doi.org/10.3390/machines10111029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Half-bridge trans-Z-source inverter with high boost factor**

**Mashinchi Maheri, Hamed**; Shokati Asl, Elias; Babaei, Ebrahim; Sabahi, Mehran; Vinnikov, Dmitri IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / p. 1-6 : ill <https://doi.org/10.1109/IECON48115.2021.9589525> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Hardware trojan insertion in finalized layouts : from methodology to a silicon demonstration**

**Perez, Tiago Diadami; Pagliarini, Samuel Nascimento** IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems 2023 / p. 2094-2107 <https://doi.org/10.1109/TCAD.2022.3223846> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Hardware/software co-design in extensible processing platforms for combinatorial search algorithms**

Skliarova, Ioulia; Sklyarov, Valery; **Rjabov, Artjom; Sudnitsõn, Aleksander** MELECON 2014 : 2014 17th IEEE Mediterranean Electrotechnical Conference : 13-16 April 2014, Beirut, Lebanon 2014 / p. 462-466 : ill <https://doi.org/10.1109/MELCON.2014.6820578> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Harmonic emissions of power electronic devices under different transmission network operating conditions**

Božicek, Ambrož; **Kilter, Jako; Sarnet, Tanel**; Papic, Igor; Blažis, Boštjan IEEE transactions on industry applications 2018 / p. 5216-5226 : ill <https://doi.org/10.1109/TIA.2018.2808478> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Harmonic levels of domestic and electrical vehicle loads in residential distribution networks**

**Niitsoo, Jaan; Kilter, Jako; Palu, Ivo; Taklaja, Paul; Kütt, Lauri** Proceedings of IEEE AFRICON 2013 Conference : 9-12 September 2013, Mauritius 2013 / p. 184-188 <https://doi.org/10.1109/AFRCON.2013.6757800> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Harmonic/inter-harmonics detection using modified exact model order-based ESPRIT**

Srivastava, Ankit Kumar; Tiwari, A.N; Singh, Sri Niwas; **Singh, Praveen Prakash** International Journal of Power Electronics 2023 / p. 218-233 <https://doi.org/10.1504/IJPELEC.2023.10053284> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Health index prediction of overhead transmission lines : a machine learning approach**

**Manninen, Henri; Kilter, Jako; Landsberg, Mart** IEEE transactions on power delivery 2022 / p. 50-58 <https://doi.org/10.1109/TPWRD.2021.3052721> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Health management for self-aware SoCs based on IEEE 1687 infrastructure**

**Shibin, Konstantin; Devadze, Sergei**; Jutman, Artur; Grabmann, Martin; Pricken, Robin IEEE Design & Test 2017 / p. 27-35 : ill <https://doi.org/10.1109/MDAT.2017.2750902> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Heat loss due to domestic hot water pipes**

**Hamburg, Anti; Mikola, Alo; Parts, Tuule Mall; Kalamees, Targo** Energies 2021 / art. 6446 <https://doi.org/10.3390/en14206446> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Heating sizing power reduction in buildings connected to district heating with dynamically controlled DHW setback and flow limiters**

Hajian, Hatem; **Simson, Raimo; Kurnitski, Jarek** Energies 2022 / art. 5278 <https://doi.org/10.3390/en15145278> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Heating system return temperature effect on heat pump performance**

**Maivel, Mikk; Kurnitski, Jarek** Energy and buildings 2015 / p. 71-79 : ill <https://doi.org/10.1016/j.enbuild.2015.02.048> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Heuristic radio access network subslicing with user clustering and bandwidth subpartitioning**

**Kulmar, Marika; Müürsepp, Ivo; Alam, Muhammad Mahtab** Sensors 2023 / art. 4613 : ill <https://doi.org/10.3390/s23104613> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Hierarchical optimization configuration strategy of synchronous condenser in high penetration wind power sending systems**

Sun, Zhenglong; Qiao, Jianhua; Meng, Xin; Pan, Chao; Li, Zewei; **Belikov, Juri**; Levron, Yoash Electronics (Switzerland) 2024 / art. 4359 <https://doi.org/10.3390/electronics13224359> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **High gain DC-AC high-frequency link inverter with improved quasi-resonant modulation**

**Blinov, Andrei; Korkh, Oleksandr; Chub, Andrii; Vinnikov, Dmitri**; Peftitsis, Dimosthenis; Norrga, Staffan; Galkin, Ilja IEEE transactions on industrial electronics 2022 / p. 1465-1476 : ill <https://doi.org/10.1109/TIE.2021.3060657> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



### High-efficiency quad-mode parallel PV power optimizer for DC microgrids

Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri IEEE transactions on industry applications 2023 / p. 1002-1012

<https://doi.org/10.1109/TIA.2022.3208879> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### High-efficiency single-stage onboard charger for electrical vehicles

Zinchenko, Denys; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri; Verbytskyi, Ievgen; Bayhan, Sertac IEEE Transactions on

Vehicular Technology 2021 / p. 12581-12592 : ill <https://doi.org/10.1109/TVT.2021.3118392> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### High-performance quasi-Z-source series resonant DC-DC converter for photovoltaic module-level power electronics applications

Vinnikov, Dmitri; Chub, Andrii; Liivik, Elizaveta; Roasto, Indrek IEEE transactions on power electronics 2017 / p. 3634-3650 : ill

<https://doi.org/10.1109/TPEL.2016.2591726> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### High-strength fuel pellets made of flour milling and coal slack wastes

Tabakaev, Roman; Kahn, Victor; Dubinina, Yury; Preis, Sergei Energy 2022 / art. 123071 <https://doi.org/10.1016/j.energy.2021.123071>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### High-voltage pulse transformer for IOT modulators

Jalakas, Tanel; Janson, Kuno; Mölder, Heigo; Roasto, Indrek IET electric power applications 2020 / p. 2348-2354

<https://doi.org/10.1049/iet-epa.2019.0877> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### A holistic risk-based maintenance methodology for transmission overhead lines using tower specific health indices and value of loss load

Manninen, Henri; Kilter, Jako; Landsberg, Mart International journal of electrical power and energy systems 2022 / art. 107767 ; 11

p. : ill <https://doi.org/10.1016/j.ijepes.2021.107767> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### How can agents help in designing complex systems?

Taveter, Kuldar; Meriste, Merik Journal of telecommunication, electronic and computer engineering 2017 / p. 1-8 : ill

<http://journal.utem.edu.my/index.php/jtec/issue/view/140> [Journal metrics at Scopus](#) [Article at Scopus](#)

### How well are energy performance objectives being achieved in renovated apartment buildings in Estonia?

Hamburg, Anti; Kalamees, Targo Energy and buildings 2019 / p. 332-341 <https://doi.org/10.1016/j.enbuild.2019.07.006>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Hybrid heat pump performance evaluation in different operation modes for single-family house

Tihana, Jelena; Ali, Hesham; Apse, Jekaterina; Jekabsons, Janis; Iancovs, Dmitrijs; Gaujena, Baiba; Dedov, Andrei Energies

2023 / art. 7018 <https://doi.org/10.3390/en16207018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at](#)

[WOS](#)

### Hybrid inverter and control strategy for enabling the PV generation dispatch using extra-low-voltage batteries

Meneghetti, Luiz Henrique; Carvalho da Silva, Edivan Laercio; Carati, Emerson Giovani; Denardin, Gustavo Weber; da Costa,

Jean Patric; de Oliveira Stein, Carlos Marcelo; Cardoso, Rafael Energies 2022 / art. 7539 <https://doi.org/10.3390/en15207539>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Hybrid protection of digital FIR filters

Aksoy, Levent; Nguyen, Quang-Linh; Almeida, Felipe; Raik, Jaan; Flottes, Marie-Lise; Dupuis, Sophie; Pagliarini, Samuel

Nascimento IEEE transactions on Very Large Scale Integration (VLSI) Systems 2023 / p. 812-825 : ill

<https://doi.org/10.1109/TVLSI.2023.3253641> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Hybrid residual current device and solid state circuit breaker for residential DC microgrids

Jalakas, Tanel; Chub, Andrii; Roasto, Indrek; Vinnikov, Dmitri 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 5

p <https://doi.org/10.1109/BEC61458.2024.10737970> [Article at Scopus](#) [Conference proceedings at Scopus](#) [Article at WOS](#)

### Hydromorphological classification using synchronous pressure and inertial sensing

Ristolainen, Asko; Kalev, Kaia; Tuhtan, Jeffrey Andrew; Kuusik, Alar; Kruusmaa, Maarja IEEE transactions on geoscience

and remote sensing 2018 / p. 3222-3232 : ill <https://doi.org/10.1109/TGRS.2018.2795641> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

### Hygrothermal analysis of masonry wall with reed boards as interior insulation system

Keskküla, Kadri; Aru, Tambet; Kiviste, Mihkel; Miljan, Martti-Jaan Energies 2020 / art. 5252, 10 p. : ill

<https://doi.org/10.3390/en13205252> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Hysteresis current control with distributed shoot-through states for impedance source inverters

Husev, Oleksandr; Chub, Andrii; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; Vinnikov, Dmitri International journal of

circuit theory and applications 2016 / p. 783-797 : ill <https://doi.org/10.1002/cta.2106> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Identification and rejuvenation of NBTI-critical logic paths in nanoscale circuits**

**Jenihhin, Maksim**; Squillero, Giovanni; **Tihomirov, Valentin**; **Kostin, Sergei**; **Raik, Jaan**; **Ubar, Raimund-Johannes** Journal of electronic testing : theory and applications (JETTA) 2016 / p. 273-289 : ill <https://doi.org/10.1007/s10836-016-5589-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Identification of seismic signals at the output of large ring laser gyroscope**

**Tari, J.B.**; Eno, N.A Earth Observing Systems XXIII, 21-23 August 2018, San Diego, California, United States 2018 / art. 107641M, 11 p. : ill <https://doi.org/10.1117/12.2320614> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**IEEE European Test Symposium (ETS)**

Eggersgluss, Stephan; Hamdioui, Said; **Jutman, Artur**; Michael, Maria K.; **Raik, Jaan** 2019 IEEE International Test Conference (ITC) 2019 / 4 p <https://doi.org/10.1109/ITC44170.2019.9000148> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**The impact of air pressure conditions on the performance of single room ventilation units in multi-story buildings**

**Mikola, Alo**; **Simson, Raimo**; **Kurnitski, Jarek** Energies 2019 / art. 2633, 18 p. : ill <https://doi.org/10.3390/en12132633> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Impact of bearing faults on vibration level of BLDC motor**

**Kudelina, Karolina**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-6 : ill <https://doi.org/10.1109/IECON48115.2021.9589268> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Impact of CFO on low latency-enabled UAV using "Better than Nyquist" pulse shaping in GFDM**

**Sharma, Navuday**; Kumar, Atul; Magarini, Maurizio; Bregni, Stefano 2019 IEEE 89th Vehicular Technology Conference (VTCSpring), Kuala Lumpur, Malaysia, 28 April–1 May 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/VTCSpring.2019.8746309> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Impact of investments and R&D costs in renewable energy technologies on companies' profitability indicators: assessment and forecast**

Prokopenko, Olha; Kurbatova, Tetiana; Khalilova, Marina; Zerkal, Anastasiia; **Prause, Gunnar Klaus**; Binda, Jacek; Berdiyrov, Temur; Klapkiv, Yuriy; Sanetra-Pógrabi, Sabina; Komarnitskyi, Igor Energies 2023 / art. 1021, 17 p. : ill <https://doi.org/10.3390/en16031021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Impact of load matching algorithms on the battery capacity with different household occupancies**

**Håring, Tobias**; **Ahmadihangar, Roya**; **Rosin, Argo**; Biechl, Helmuth IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 2541-2547 <https://doi.org/10.1109/IECON.2019.8927495> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Impact of orientation on the bias of SRAM-based PUFs**

**Abideen, Zain Ul**; Wang, Rui; **Perez, Tiago Diadami**; Schrijen, Geert-Jan; **Pagliarini, Samuel Nascimento** IEEE design & test 2024 / p. 14-20 <https://doi.org/10.1109/MDAT.2023.3322621> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Impact of transformer turns ratio on the power losses and efficiency of the wide range isolated buck–boost converter for photovoltaic applications**

**Mashinch Maheri, Hamed**; **Vinnikov, Dmitri**; **Chub, Andrii**; **Sidorov, Vadim**; **Liivik, Elizaveta** Energies 2020 / art. 5645, 21 p <https://doi.org/10.3390/en13215645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Implementation and evaluation of the DAOM framework and tool support for designing blockchain decentralized applications**

**Udokwu, Chibuzor**; Brandtner, Patrick; **Norta, Alexander**; **Kormiltsõn, Aleksandr**; Matulevičius, Raimundas International journal of law and information technology 2021 / p. 2245–2263 : ill <https://doi.org/10.1007/s41870-021-00816-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Implementation of global maximum power point tracking in photovoltaic microconverters: A survey of challenges and opportunities**

**Vinnikov, Dmitri**; **Chub, Andrii**; Kosenko, Roman; **Sidorov, Vadim**; Lindvest, Andre IEEE journal of emerging and selected topics in power electronics 2023 / p. 2259-2280 : ill <https://doi.org/10.1109/JESTPE.2021.3137521> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Implementation of parallel operations over streams in extensible processing platforms**

Sklyarov, Valery; Skliarova, Ioulia; **Rjabov, Artjom**; **Sudnitsõn, Aleksander** 2013 IEEE 56th International Midwest Symposium on Circuits and Systems (MWSCAS) : August 4-7, 2013, Columbus, Ohio : [proceedings] 2013 / p. 852-855 : ill <https://doi.org/10.1109/MWSCAS.2013.6674783> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Implementation of series resonance-based fault current limiter for enhanced transient stability of grid-connected photovoltaic farm**

**Demin, Slava;** Barbie, Eli; Heistrene, Leena; **Belikov, Juri; Petlenkov, Eduard;** Levron, Yoash; Baimel, Dmitry Electronics (Switzerland) 2024 / art. 2987 <https://doi.org/10.3390/electronics13152987> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Implementation of X-Parameters principle for non-linear vibroacoustic membrane using Two-Port measurement**

**Moezzi, Reza;** Hlava, Jaroslav; **Vu, Trieu Minh** Traitement du signal 2019 / p. 297-301 <https://doi.org/10.18280/ts.360401> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved amorphous silicon passivation layer for heterojunction solar cells with post-deposition plasma treatment**

Neumüller, Alex; Sergeev, Oleg; Heise, Stephan J.; **Bereznev, Sergei; Volobujeva, Olga** Nano energy 2018 / p. 228-235 : ill <https://doi.org/10.1016/j.nanoen.2017.11.053> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved C5D electronic realization of conductivity detector for capillary electrophoresis**

**Jaanus, Martin; Udal, Andres; Kukk, Vello; Umbleja, Kadri; Gorbatšova, Jelena; Mölder, Lauri** Elektronika ir elektrotehnika = Electronics and electrical engineering 2016 / p. 29-32 : ill <https://doi.org/10.5755/j01.eie.22.3.15311> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved diagnostic approach for BRB detection and classification in inverter-driven induction motors employing sparse stacked autoencoder (SSAE) and lightGBM**

**Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants** Electronics (Switzerland) 2024 / art. 1292 <https://doi.org/10.3390/electronics13071292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved fault classification and localization in power transmission networks using vae-generated synthetic data and machine learning algorithms**

**Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants;** Pomarnacki, Raimondas; Hyunh, Van Khang Machines 2023 / art. 963 <https://doi.org/10.3390/machines11100963> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved fractional open circuit voltage MPPT methods for PV systems**

Baimel, Dmitry; Tapuchi, Saad; Levron, Yoash; **Belikov, Juri** Electronics 2019 / art. 321 <https://doi.org/10.3390/electronics8030321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved modulation method for full-bridge AC-DC HF-link converter**

**Blinov, Andrei; Korkh, Oleksandr; Chub, Andrii; Vinnikov, Dmitri** 2020 IEEE International Conference on Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 1173-1177 : ill <https://doi.org/10.1109/ICIT45562.2020.9067128> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**An improved ZVS high step-up converter based on coupled inductor and built-in transformer**

Nouri, Tohid; **Vosoughi Kurdkandi, Naser; Husev, Oleksandr** IEEE transactions on power electronics 2021 / p. 13802-13816 : ill <https://doi.org/10.1109/TPEL.2021.3088092> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improvements on the carrier-based control method for a three-level T-type, quasi-impedance-source inverter**

Barrero-Gonzalez, Fermin; Roncero-Clemente, Carlos; Milanes-Montero, Maria Isabel; **Husev, Oleksandr** Electronics 2019 / art. 677, 12 p. : ill <https://doi.org/10.3390/electronics8060677> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Incorporation of fractional-order dynamics into an existing PI/PID DC motor control loop**

**Tepljakov, Aleksei;** Gonzales, Emmanuel A.; **Petlenkov, Eduard; Belikov, Juri;** Monje, Concepcion A.; Petraš, Ivo ISA transactions 2016 / p. 262-273 : ill <https://doi.org/10.1016/j.isatra.2015.11.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Induction generator with direct control and a limited number of measurements on the side of the converter connected to the power grid**

Kasproicz, Andrzej Bogdan; **Husev, Oleksandr;** Strzelecki, Ryszard Energies 2023 / art. 63, 23 p. : ill <https://doi.org/10.3390/en16010063> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Induction machine fault detection using smartphone recorded audible noise**

**Vaimann, Toomas;** Sobra, Jan; **Belahcen, Anouar; Rassölkin, Anton;** Rolak, Michal; **Kallaste, Ants** IET science, measurement and technology 2018 / p. 554-560 : ill <https://doi.org/10.1049/iet-smt.2017.0104> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Inductor Current Ripple Analysis and Reduction for Quasi-Z-Source Inverters with An Improved ZSVM6 Strategy**

Liu, Wenjie; Yang, Yongheng; Kerekes, Tamas; **Vinnikov, Dmitri;** Blaabjerg, Frede IEEE transactions on power electronics 2021 / p. 7693-7704 <https://doi.org/10.1109/TPEL.2020.3043102> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of magnet material selection on the design of slow-speed permanent magnet synchronous generators for wind applications**

**Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 31-38 : ill <https://doi.org/10.5755/j01.eie.23.1.17581> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of magnetic forces and magnetostriction on the vibration behavior of an induction motor**

Sathyan, Sabin; Aydin, Ugur; Lehtikoinen, Antti; **Belahcen, Anouar; Vaimann, Toomas**; Kataja, Juhani International journal of applied electromagnetics and mechanics 2019 / p. 825-834 <https://doi.org/10.3233/JAE-171045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of Ni concentration on electrochemical and crystallographic properties of La<sub>0.25</sub>Sr<sub>0.25</sub>Ca<sub>0.4</sub>Ti<sub>1-x</sub>Ni<sub>x</sub>O<sub>3-δ</sub> solid oxide fuel cell anode**

Korjus, Ove; Möller, Priit; Kooser, Kuno; Käämbre, Tanel; **Volobujeva, Olga**; Nerut, Jaak; Kotkas, S.; Lust, Enn; Nurk, Gunnar Journal of Power Sources 2021 / Art. n.r 229739 <https://doi.org/10.1016/j.jpowsour.2021.229739> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of slot wedge material on permanent magnet losses in a traction motor with tooth coil windings**

Lindh, Pia; **Vaimann, Toomas; Kallaste, Ants**; Pyrhönen, Juha; **Vinnikov, Dmitri**; Naumanen, Ville International journal of applied electromagnetics and mechanics 2013 / p. 227-236 : ill <https://doi.org/10.3233/JAE-131659> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of wedge material on losses of a traction motor with tooth-coil windings**

Lindh, Pia; Pyrhönen, Juha; Ponomarev, P.; **Vinnikov, Dmitri** Proceedings IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 2941-2946 : ill <https://doi.org/10.1109/IECON.2013.6699598> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Information literacy and peer-to-peer infrastructures : an autopoietic perspective**

Gonzalez-Rodriguez, Diego; **Kostakis, Vasileios** Telematics and informatics 2015 / p. 586-593 : ill <https://doi.org/10.1016/j.tele.2015.01.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Inhomogeneity correction in calibration of electrical conductivity standards**

**Pokatilov, Andrei; Parker, Martin**; Kolyshkin, Andrei; **Märtens, Olev; Kübarsepp, Toomas** Measurement 2013 / p. 1535-1540 : ill <https://doi.org/10.1016/j.measurement.2012.12.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Inkjet-printed hybrid conducting polymer-activated carbon aerogel linear actuators driven in an organic electrolyte**

Põdsalu, Inga; Harjo, Madis; Tamm, Tarmo; **Uibu, Mai**; Peikola, Anna-Liisa; Kiefer, Rudolf Sensors and actuators B : chemical 2017 / p. 44-51 : ill <https://doi.org/10.1016/j.snb.2017.04.138> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Input-output decoupling of discrete-time nonlinear systems by dynamic measurement feedback**

**Kaldmäe, Arvo; Kotta, Ülle** European journal of control 2017 / p. 31-38 : ill <https://doi.org/10.1016/j.ejcon.2016.12.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Input-output linearization of discrete-time systems by dynamic output feedback**

**Kaldmäe, Arvo; Kotta, Ülle** European journal of control 2014 / p. 73-78 <https://doi.org/10.1016/j.ejcon.2013.12.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Integrability for nonlinear time-delay systems**

**Kaldmäe, Arvo**; Califano, Claudia; Moog, Claude IEEE transactions on automatic control 2016 / p. 1912-1917 <https://doi.org/10.1109/TAC.2015.2482003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Integrating drone-captured sub-catchment topography with multiphase CFD modelling to enhance urban stormwater management**

**Kaur, Katrin; Annus, Ivar; Truu, Murel; Kändler, Nils; Paalmäe, Iris** The 3rd International Joint Conference on Water Distribution Systems Analysis & Computing and Control for the Water Industry (WDSA/CCWI 2024) 2024 / art. 31 <https://doi.org/10.3390/engproc2024069031> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Integrating smart energy management system with internet of things and cloud computing for efficient demand side management in smart grids**

Saleem, M. Usman; Shakir, Mustafa; Usman, M. Rehan; Bajwa, M. Hamza Tahir; **Shabbir, Noman; Shams Ghahfarokhi, Payam; Daniel, Kamran** Energies 2023 / art. 4835 : ill <https://doi.org/10.3390/en16124835> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



### **Integration of long transmission lines in large-scale DQ0 dynamic models**

**Belikov, Juri**; Levron, Yoash Electrical Engineering 2018 / p. 1219–1228 <https://doi.org/10.1007/s00202-017-0582-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Integration of PV system with SMES based on model predictive control for utility grid reliability improvement**

**Bakeer, Abualkasim Ahmed Ali**; Salama, Hossam S.; Vokony, Istvan Protection and Control of Modern Power Systems 2021 / art. 14 <https://doi.org/10.1186/s41601-021-00191-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Intelligent control and digital twins for industry 4.0**

**Tepljakov, Aleksei** Sensors 2023 / art. 4036 <https://doi.org/10.3390/s23084036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Intelligent control of robots with minimal power consumption in pick-and-place operations**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** Energies 2023 / art. 7418 <https://doi.org/10.3390/en16217418> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Interaction of firefly luciferase and silver nanoparticles and its impact on enzyme activity**

**Käkinen, Aleksandr**; Ding, Feng; Chen, Pengyu; Mortimer, Monika; Kahru, Anne; Ke, Pu Chun Nanotechnology 2013 / art. 345101 <https://doi.org/10.1088/0957-4484/24/34/345101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Interface converters for residential battery energy storage systems : practices, difficulties and prospects**

Galkin, Ilja; **Blinov, Andrei**; Vorobyov, Maxim; Bubovich, Alexander; Saltanovs, Rodions; Pefitsis, Dimosthenis Energies 2021 / art. 3365 <https://doi.org/10.3390/en14123365> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Introducing interlayer electrolytes : toward room-temperature high-potential solid-state rechargeable fluoride ion batteries**

**Mohammad, Irshad; Witter, Raiker; Fichtner, Maximilian; Reddy, M. Anji** ACS Applied Energy Materials 2019 / p. 1553–1562 : ill <https://doi.org/10.1021/acsaem.8b02166> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Inventory routing for ammonia supply in German ports**

Prause, Felix; **Prause, Gunnar**; Philipp, Robert Energies 2022 / art. 6485, 22 p. : ill. <https://doi.org/10.3390/en15176485> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Inverter-fed motor drive system : a systematic analysis of condition monitoring and practical diagnostic techniques**

Energies 2023 / art. 5628 <https://doi.org/10.3390/en16155628> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigating the progression of insulation degradation in power cable based on partial discharge measurements**

Hassan, Waqar; **Shafiq, Muhammad**; Hussain, Ghulam Amjad; **Choudhary, Maninder; Palu, Ivo** Electric power systems research 2023 / art. 109452 <https://doi.org/10.1016/j.epsr.2023.109452> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation and field measurements for demand side management control technique of smart air conditioners located at residential, commercial, and industrial sites**

Masood, Bilal; Guobing, Song; Nebhen, Jamel; Rehman, Ateeq Ur; **Iqbal, Muhammad Naveed**; Rasheed, Iftikhar; Bajaj, Mohit; Shafiq, Muhammad; Hamam, Habib Energies 2022 / art. 2482, 23 p. : ill <https://doi.org/10.3390/en15072482> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investments in the shale oil industry under risk and uncertainty**

**Pulkkinen, Svetlana; Valtin, Juhan** Przegląd elektrotechniczny = Electrical review 2018 / p. 1-5 : ill <https://doi.org/10.15199/48.2018.12.01> <http://pe.org.pl/articles/2018/12/1.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Iron triad-based bimetallic M-N-C nanomaterials as highly active bifunctional oxygen electrocatalysts**

**Alam, Mahboob; Ping, Kefeng**; Danilson, Mati; Mikli, Valdek; Käärik, Maike; Leis, Jaan; Aruväli, Jaan; Paiste, Päärn; Rähn, Mihkel; Sammelselg, Väino; Tammeveski, Kaido; Haller, Steffen; Kramm, Ulrike Ingrid; **Starkov, Pavel**; Kongi, Nadezda ACS Applied Energy Materials 2024 / p. 4076 - 4087 <https://doi.org/10.1021/acsaem.4c00366> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Iterative Learning based feedforward control for Transition of a Biplane-Quadrotor Tailsitter UAS**

Raj, Nidhish; **Simha, Ashutosh**; Kothari, Mangal; Abhishek; Banavar, Ravi N. 2020 IEEE International Conference on Robotics and Automation (ICRA), 31 May-31 Aug. 2020, Paris, France : proceedings 2020 / p. 321-327 : ill <https://doi.org/10.1109/ICRA40945.2020.9196671> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Joint estimation of bulk flow velocity and angle using a lateral line probe**

Strokina, Nataliya; Kämäräinen, Joni-Kristian; **Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Kruusmaa, Maarja** IEEE transactions on instrumentation and measurement 2016 / p. 601-613 : ill <https://doi.org/10.1109/TIM.2015.2499019> [Journal metrics](#)

[at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Joint planning of EV fast charging stations and power distribution systems with balanced traffic flow assignment**

Yang, Wentao; Liu, Weijia; Chung, Chi Yung; **Wen, Fushuan** IEEE transactions on industrial informatics 2021 / p. 1795–1809 : ill <https://doi.org/10.1109/TII.2020.2995742> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **KaLi: a crystal for post-quantum security using kyber and dilithium**

Aikata, Aikata; Mert, Ahmet Can; **Imran, Malik; Pagliarini, Samuel Nascimento**; Roy, Sujoy Sinha IEEE Transactions on Circuits and Systems I : regular papers 2023 / p. 747–758 <https://doi.org/10.1109/TCSI.2022.3219555> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Kalman-filter based maximum power point tracking for a single-stage grid-connected photovoltaic system**

Farrokhi, Ehsan; Ghoreishy, Hoda; **Ahmadihangar, Roya; Rosin, Argo** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / Code 173927 <https://doi.org/10.1109/IECON48115.2021.9589653> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Land and underwater gait analysis using wearable IMU**

Monoli, Cecilia; Fuentez-Perez, Juan Francisco; Cau, Nicola; Capodaglio, Paolo; Galli, Manuela; **Tuhtan, Jeffrey Andrew** IEEE sensors journal 2021 / p. 11192–11202 <https://doi.org/10.1109/JSEN.2021.3061623> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Laser additively manufactured magnetic core design and process for electrical machine applications**

**Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Lind, Liina**; Virro, Indrek; **Rassõlkin, Anton; Dedova, Tatjana** Energies 2022 / art. 3665 <https://doi.org/10.3390/en15103665> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Laser line detection with sub-pixel accuracy**

**Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul** Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 132–135 : ill <https://doi.org/10.5755/j01.eee.20.5.7114> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Laser scanner calibration dependency on the line detection method**

**Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul** Elektronika ir elektrotehnika = Electronics and electrical engineering 2015 / p. 66–69 : ill <https://doi.org/10.5755/j01.eee.21.6.13765> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **LCCT-derived three-level three-phase inverters**

**Shults, Tatiana; Husev, Oleksandr**; Blaabjerg, Frede; **Zakis, Janis**; Khandakji, Kamal IET power electronics 2017 / p. 996–1002 <https://doi.org/10.1049/iet-pel.2016.0023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Learning based personalized energy management systems for residential buildings**

Soudari, Mallikarjun; Srinivasan, Seshadri; Balasubramanian, Subathra; **Vain, Jüri; Kotta, Ülle** Energy and buildings 2016 / p. 953–968 : ill <https://doi.org/10.1016/j.enbuild.2016.05.059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Lempel-Ziv and multiscale Lempel-Ziv complexity in depression**

**Kalev, Kaia; Bachmann, Maie; Päeske, Laura; Lass, Jaanus; Hinrikus, Hiie** 2015 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2015 / art. 7319310 <https://doi.org/10.1109/EMBC.2015.7319310> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Lidar-camera semi-supervised learning for semantic segmentation**

Caltagirone, Luka; **Bellone, Mauro**; Svensson, Lennart; Wahde, Mattias; **Sell, Raivo** Sensors 2021 / art. 4813 <https://doi.org/10.3390/s21144813> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Lifetime-oriented control strategies for hybrid energy storage systems in an islanded microgrid**

**Cinay, Nazli; Häring, Tobias; Rosin, Argo; Korõtko, Tarmo; Ahmadihangar, Roya**; Biechl, Helmuth 2021 22nd IEEE International Conference on Industrial Technology (ICIT) : proceedings 2021 / p. 1–6 <https://doi.org/10.1109/ICIT46573.2021.9453617> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Lightweight monitoring scheme for flooding DoS Attack detection in multi-tenant MPSoCs**

**Chaves Arroyave, Cesar Giovanni**; Sepulveda, Johanna; **Hollstein, Thomas** 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea May 22–28, 2021 : proceedings 2021 / 5 p <https://doi.org/10.1109/ISCAS51556.2021.9401153> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Load control implementation in the energy intensive industry**

**Uuemaa, Priit; Valtin, Juhan; Kilter, Jako**; Puusepp, Allan; **Drovtar, Imre; Rosin, Argo** 17th IEEE Mediterranean Electrotechnical Conference, Beirut, Lebanon, 13–16 April 2014 2014 / p. 213–218 : ill <https://doi.org/10.1109/MELCON.2014.6820534> [Conference](#)

[proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Low temperature radiator heating distribution and emission efficiency in residential buildings**

**Maivel, Mikk; Kurnitski, Jarek** Energy and buildings 2014 / p. 224-236 : ill <https://doi.org/10.1016/j.enbuild.2013.10.030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Low temperature time resolved photoluminescence in ordered and disordered Cu<sub>2</sub>ZnSnS<sub>4</sub> single crystals**

**Raadik, Taavi; Krustok, Jüri; Kauk-Kuusik, Marit; Timmo, Kristi; Grossberg, Maarja;** Ernits, Kaia; Bleuse, J. Physica B : condensed matter 2017 / p. 47-50 : ill <https://doi.org/10.1016/j.physb.2016.12.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Low-cost plasmonic solar cells prepared by chemical spray pyrolysis**

**Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mikli, Valdek; Mere, Arvo;** Sildos, Ilmo; **Krunks, Malle** The Beilstein journal of nanotechnology 2014 / p. 2398-2402 : ill <https://doi.org/10.3762/bjnano.5.249> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Low-power Wind Generation grid-connected system with MPPT and PC control**

Rosa, Carlos; **Vinnikov, Dmitri;** Romero-Cadaval, Enrique; Pires, Vitor; Martins, Joao Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5991-5996 : ill <https://doi.org/10.1109/IECON.2013.6700118> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Low-temperature waste heat enabling abandoning coal in Espoo district heating system**

**Hiltunen, Pauli; Syri, Sanna** Energy 2021 / art. 120916, 11 p. : ill <https://doi.org/10.1016/j.energy.2021.120916> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Machine learning approach for flexibility characterisation of residential space heating**

**Häring, Tobias; Ahmadiyahangar, Roya; Rosin, Argo; Biechl, Helmuth** IECON 2021 - 47th Annual Conference of the IEEE Industrial Electronics Society, Toronto, Canada, Oct. 13-16, 2021 2021 / 6 p. : ill <https://doi.org/10.1109/IECON48115.2021.9589216> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **A machine learning approach to achieving energy efficiency in relay-assisted LTE-a downlink system**

Hassan, Hammad; Ahmed, Iffan; Ahmad, Rizwan; Khammari, Hedi; Bhatti, Ghulam; Ahmed, Waqas; **Alam, Muhammad Mahtab** Sensors 2019 / art. 3461, 25 p. : ill <https://doi.org/10.3390/s19163461> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Machine learning-based prediction of specific energy consumption for cut-off grinding**

Awan, Muhammad Rizwan; Rojas, Hernan A. Gonzalez; **Hameed, Saqib;** Riaz, Fahid; Hamid, Shahzaib; **Hussain, Abrar** Sensors 2022 / art. 7152 <https://doi.org/10.3390/s22197152> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Magnetic properties of reduced Dy NdFeB permanent magnets and their usage in electrical machines**

**Vaimann, Toomas; Kallaste, Ants; Kilk, Aleksander; Belahcen, Anouar** IEEE AFRICON 2013 : [proceedings] 2013 / p. 1124-1128 : ill <https://doi.org/10.1109/AFRCON.2013.6757787> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Making (in) the smart city : the emergence of makerspaces**

**Niaros, Vasileios; Kostakis, Vasileios; Drechsler, Wolfgang** Telematics and informatics 2017 / p. 1143-1152 : ill <https://doi.org/10.1016/j.tele.2017.05.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Managing energy consumption of linear delta robots using neural network models**

**Vodovozov, Valery; Lehtla, Madis; Raud, Zoja; Semjonova, Natalia; Petlenkov, Eduard** Energies 2024 / art. 4081 <https://doi.org/10.3390/en17164081> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Marginal PCB assembly defect detection on DDR3/4 memory bus**

**Odintsov, Sergei; Jutman, Artur; Devadze, Sergei** 2017 IEEE International Test Conference (ITC 2017) : Forth Worth, Texas, USA, 31 October - 2 November 2017 2017 / p. 238-247 : ill <https://doi.org/10.1109/TEST.2017.8242070> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Market based renovation solutions in non-residential buildings - Why commercial buildings are not renovated to NZEB**

**Kuivjõgi, Helena; Uutar, Aivar; Kuusk, Kalle; Thalfeldt, Martin; Kurnitski, Jarek** Energy and buildings 2021 / art. 111169, 13 p. : ill <https://doi.org/10.1016/j.enbuild.2021.111169> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Market mechanisms and trading in microgrid local electricity markets : a comprehensive review**

**Zahraoui, Younes; Korötko, Tarmo; Rosin, Argo; Agabus, Hannes** Energies 2023 / art. 2145, 52 p. : ill <https://doi.org/10.3390/en16052145> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Mathematical and physical modelling of the dynamic electrical bioimpedance**

**Giannoukos, Georgios; Min, Mart** International journal of circuits, systems and signal processing 2014 / p. 600-606 : ill

**Mathematical model for assessment of voltage disturbing sources in networks with distributed power generation**

Sayenko, Yuri; Kalyuzhnyi, Dmitry; **Bolgov, Viktor; Kütt, Lauri** Przegląd elektrotechniczny = Electrical review 2019 / p. 49-53 : ill  
<https://doi.org/10.15199/48.2019.03.12> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Measurement feedback disturbance decoupling in discrete-event systems**

**Kaldmäe, Arvo; Kotta, Ülle**; Shumsky, Alexey; Zhirabok, Alexey International journal of robust and nonlinear control 2015 / p. 3330-3348 <https://doi.org/10.1002/rnc.3265> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Measurement feedback disturbance decoupling in discrete-time nonlinear systems**

**Kaldmäe, Arvo; Kotta, Ülle**; Shumsky, Alexey Ye.; Zhirabok, Alexey N. Automatica 2013 / p. 2887-2891 : ill  
<https://doi.org/10.1016/j.automatica.2013.06.013> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Measuring explainability and trustworthiness of power quality disturbances classifiers using XAI - explainable artificial intelligence**

Machlev, Ram; Perl, Michael; **Belikov, Juri**; Levy, Kfir; Levron, Yoash IEEE transactions on industrial informatics 2022 / p. 5127-5137 <https://doi.org/10.1109/TII.2021.3126111> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Mechanoelectrical impedance of a carbide-derived carbon-based laminate motion sensor at large bending deflections**

Must, Indrek; **Anton, Mart**; Viidalepp, Erki; Põldsalu, Inga; Punning, Andres; Aabloo, Alvo Smart Materials and Structures 2013 / art. 104015 <https://doi.org/10.1088/0964-1726/22/10/104015> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Memristive device based circuits for computation-in-memory architectures**

Lebdeh, Muath Abu; **Reinsalu, Uljana**; Nguyen, Hoang Anh Du; Wong, Stephan; Hamdioui, Said 2019 IEEE International Symposium on Circuits and Systems (ISCAS) : proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/ISCAS.2019.8702542> Conference proceedings at Scopus Article at Scopus Article at WOS

**Method for assessing heat loss in a district heating network with a focus on the state of insulation and actual demand for useful energy**

Chicherin, Stanislav; Mašatin, Vladislav; **Siirde, Andres; Volkova, Anna** Energies 2020 / art. 4505, 15 p. : ill  
<https://doi.org/10.3390/en13174505> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**A method for significant wave height estimation from circularly polarized X-Band coastal marine radar images**

**Rikka, Sander; Uiboupin, Rivo; Kõuts, Tarmo; Vahter, Kaimo; Pärt, Siim** IEEE Geoscience and Remote Sensing Letters 2019 / p. 844-848 : ill <https://doi.org/10.1109/LGRS.2018.2886631> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Method for wideband signal digitizing and their real-time reconstruction in enlarged dynamic range**

Biblinskis, I.; Sudars, K.; **Min, Mart** Elektronika ir elektrotechnika = Electronics and electrical engineering 2014 / p. 110-113 : ill  
<https://doi.org/10.5755/j01.eee.20.6.7279> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Method of linear approximation of COP for heat pumps and chillers based on thermodynamic modelling and off-design operation**

**Pieper, Henrik; Krupenski, Igor**; Markussen, Wiebke Brix; Ommen, Torben; **Siirde, Andres; Volkova, Anna** Energy 2021 / art. 120743 : ill <https://doi.org/10.1016/j.energy.2021.120743> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Methodology for evaluating the transition process dynamics towards 4th generation district heating systems**

**Volkova, Anna; Mašatin, Vladislav; Siirde, Andres** Energy 2018 / p. 253-261 : ill <https://doi.org/10.1016/j.energy.2018.02.123> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Methodology for finding investment sites that can be refurbished from a nearby medium voltage line element instead of using the existing low voltage line corridor**

**Hõbejõgi, Tiit; Reinberg, Anneli; Last, Kristjan; Laanetu, Margus; Mere, Tarmo; Valtin, Juhan; Hamburg, Arvi** Przegląd elektrotechniczny = Electrical review 2014 / p. 199-202 : ill <https://doi.org/10.12915/pe.2014.10.48> Journal metrics at Scopus Article at Scopus

**Methods for detection of bioimpedance variations in resource constrained environments**

**Priidel, Eiko; Annus, Paul; Krivošei, Andrei; Rist, Marek; Land, Raul; Min, Mart; Märtens, Olev** Sensors 2020 / art. 1363, 16 p. : ill <https://doi.org/10.3390/s20051363> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Methods of condition monitoring and fault detection for electrical machines**

**Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Khang, Huynh Van** Energies 2021 / art.



**Microfluidic droplet classification through tuned convolutional neural network on a resource constrained platform**

**Afrin, Fariha; Le Moullec, Yannick; Pardy, Tamas** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 4 p  
<https://doi.org/10.1109/BEC61458.2024.10737958> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Mid-IR DIAL for high-resolution mapping of explosive precursors**

Mitev, Valentin M.; Babichenko, Sergey M.; Bennès, Jonathan; Borelli, Rodolfo; Dolfi-Bouteyre, Agnès; Fiorani, Luca; Hespel, Laurent; Huet, Thierry; Palucci, Antonio; Pistilli, Marco; Puiu, Adriana; Rebane, Ott; **Sobolev, Innokenti** Lidar technologies, techniques, and measurements for atmospheric remote sensing IX : 23 - 24 September 2013, Dresden, Germany 2013 / art. 88940S  
<https://doi.org/10.1117/12.2028374> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Minimal output impedance required for stability of grid-supporting inverters**

Ofir, Ron; Zargari, Noa; **Belikov, Juri**; Levron, Yoash IEEE transactions on power delivery 2021 / p. 2241-2244  
<https://doi.org/10.1109/TPWRD.2021.3071023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Minimal realizations of nonlinear systems**

**Kotta, Ülle**; Moog, Claude; **Tönso, Maris** Automatica 2018 / p. 207-212 <https://doi.org/10.1016/j.automatica.2018.05.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Minimal realizations of nonlinear time-delay systems**

**Kaldmäe, Arvo**; Zbigniew, Bartosiewicz; **Kotta, Ülle**; Wyrwas, Malgorzata IEEE transactions on automatic control 2023 / p. 6766 - 6772 <https://doi.org/10.1109/TAC.2023.3240124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Misconfiguration-free compositional SDN for cloud networks**

Pan, Heng; Li, Zhenyu; Zhang, Penghao; Cui, Penglai; **Salamatian, Mohammad Reza Kave**; Xie, Gaogang IEEE Transactions on Dependable and Secure Computing 2023 / p. 2484 - 2499 <https://doi.org/10.1109/TDSC.2022.3185096> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Mission profile-based accelerated testing of DC-link capacitors in photovoltaic inverters**

Sangwongwanich, Ariya; Shen, Yanfeng; **Chub, Andrii**; **Liivik, Elizaveta**; **Vinnikov, Dmitri**; Wang, Huai; Blaabjerg, Frede Thirty-Fourth Annual IEEE Applied Power Electronics Conference and Exposition, March 17 – 21, 2019, Anaheim, California 2019 / p. 2833-2840 : ill <https://doi.org/10.1109/APEC.2019.8721794> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Model order reduction of electrical machines with multiple inputs**

Farzam Far, Mehrnaz; **Belahcen, Anouar**; Rasilo, Paavo; Clenet, Stephane; Pierquin, Antoine IEEE transactions on industry applications 2017 / p. 3355-3360 : ill <https://doi.org/10.1109/TIA.2017.2681967> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Model predictive control for modeling human gait motions assisted by Vicon technology**

**Vu, Trieu Minh**; **Tamre, Mart**; Musalimov, Victor; Kovalenko, Pavel; Rubinshtein, Irina; Ovchinnikov, Ivan; Krcmarik, David; Moezzi, Reza Journal European des systemes automatisés 2020 / p. 589–600 <https://doi.org/10.18280/jesa.530501> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Model predictive control-based dual input split source inverter for PV applications**

Abu-Zaher, Mustafa; Aly, Mokhtar; Zhuo, Fang; Ahmed, Mostafa; Rodriguez, Jose; **Bakeer, Abualkasim Ahmed Ali**; Hassan, Alaaeldien IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 6 p <https://doi.org/10.1109/IECON55916.2024.10905950> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Model reference adaptive control scheme for retuning method-based fractional-order PID control with disturbance rejection applied to closed-loop control of a magnetic levitation system**

**Tepljakov, Aleksei**; Alagoz, Baris Baykant; Gonzalez, Emmanuel A.; **Petlenkov, Eduard**; Yeroglu, Celaeddin Journal of circuits, systems, and computers 2018 / 1850176 <https://doi.org/10.1142/S0218126618501761> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Modeling an alternate operational ground source heat pump for combined space heating and domestic hot water power sizing**

Ahmed, Kaiser; **Fadejev, Jevgeni**; **Kurnitski, Jarek** Energies 2019 / art. 2120, 26 p. : ill <https://doi.org/10.3390/en12112120> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Modeling and experimental analysis of the mass loading effect on micro-ionic polymer actuators using step response identification**

Dadras, Iman; Ghenna, Sofiane; Grondel, Sébastien; Cattani, Éric; **Raik, Jaan**; Aabloo, Alvo; Banerji, Saoni Journal of Microelectromechanical Systems 2021 / p. 243–252 : ill <https://doi.org/10.1109/JMEMS.2021.3060897> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modeling and simulations of 4H-SiC/6H-SiC/4H-SiC single quantum-well light emitting diode using diffusion bonding technique**

Rashid, Muhammad Haroon; **Koel, Ants; Rang, Toomas** Micromachines 2021 / art. 1499 <https://doi.org/10.3390/mi12121499> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modeling of the human lower-limb motion, design and control of knee joint orthosis**

Musalimov, Victor; Monahov, Yury; **Tamre, Mart; Rõbak, Dmitri; Sivitski, Alina; Aryassov, Gennady; Penkov, Igor** International review on modelling and simulations (IREMOS) 2017 / p. 371-376 <https://doi.org/10.15866/iremos.v10i5.11853> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Modelling and simulation of human lower-limb motion**

**Žigailov, Sergei;** Musalimov, Victor; **Arjassov, Gennadi; Penkov, Igor** International review on modelling and simulations (IREMOS) 2016 / p. 114-123 : ill <https://doi.org/10.15866/iremos.v9i2.8358> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Modelling anisotropy in non-oriented electrical steel sheet using vector Jiles-Atherton model**

Upadhaya, Brijesh; Martin, Florian; Rasilo, Paavo; Handgruber, Paul; **Belahcen, Anouar;** Arkkio, Antero COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2017 / p. 764-773 : ill <https://doi.org/10.1108/COMPEL-09-2016-0399> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modelling of distribution level coreless induction furnace for rapid voltage change assessment**

**Trummal, Tarmo; Sarnet, Tanel; Kilter, Jako** Electric power systems research 2021 / art. 107151 <https://doi.org/10.1016/j.epsr.2021.107151> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A modified dynamic model of single-sided linear induction motors considering longitudinal and transversal effects**

**Heidari, Hamidreza; Rassõlkin, Anton; Razzaghi, Arash; Vaimann, Toomas; Kallaste, Ants; Andriushchenko, Ekaterina; Belahcen, Anouar;** Lukichev, Dmitry Electronics 2021 / art. 933, 14 p. : ill <https://doi.org/10.3390/electronics10080933> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modified inductive multi-coil wireless power transfer approach based on Z-source network**

Pakhaliuk, Bohdan; **Husev, Oleksandr;** Shevchenko, Viktor; Zakis, Janis; Khomenko, Maksym; Strzelecki, Ryszard IEEE journal of emerging and selected topics in power electronics 2021 / p. 4906-4917: ill <https://doi.org/10.1109/JESTPE.2020.3041565> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modified Q-Z-Source DC Circuit Breaker for Next-Generation Electric Aircrafts**

Aditya, P.; Venkata Raghavendra, I.; Banavath, Satish Naik; **Chub, Andrii;** Song, Xiaoqing; **Vinnikov, Dmitri;** Wang, Fred 2023 IEEE Applied Power Electronics Conference and Exposition (APEC) 2023 / p. 1049–1056 <https://doi.org/10.1109/APEC43580.2023.10131532> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Modified technique of parameter identification of a permanent magnet synchronous motor with PWM inverter in the presence of dead-time effect and measurement noise**

Mamatov, Aleksandr; Lovlin, Sergey; **Vaimann, Toomas; Rassõlkin, Anton;** Vakulenko, Sergei; Abramian, Andrei Electronics 2019 / art. 1200, 19 p <https://doi.org/10.3390/electronics8101200> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modified winding function analysis of synchronous reluctance motor for design iteration purposes : [journal article]**

**Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton** IEEE transactions on magnetics 2022 / art. 7500704 <https://doi.org/10.1109/TMAG.2022.3164189> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modified winding function-based model of squirrel cage induction motor for fault diagnostics**

**Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Iqbal, Muhammad Naveed** IET electric power applications 2020 / p. 1722-1734 <https://doi.org/10.1049/iet-epa.2019.1002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modular battery charger for light electric vehicles**

**Blinov, Andrei;** Verbytskyi, Ievgen; **Zinchenko, Denys; Vinnikov, Dmitri;** Galkin, Ilja Energies 2020 / art. 774, 21 p. : ill <https://doi.org/10.3390/en13040774> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modular self-balancing battery charger concept for cost-effective power-assist wheelchairs**

Galkin, Ilja; **Blinov, Andrei;** Verbytskyi, Ievgen; **Zinchenko, Denys** Energies Special Issue Power Electronic Systems for Efficient and Sustainable Energy Supply 2019 / art. en12081526, 21 p. : ill <https://doi.org/10.3390/en12081526> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modular, dual-tone piezoelectric micropump driver for low-cost, portable droplet generation**

**Jõemaa, Rauno; Pardy, Tamas** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737948> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Molecularly imprinted co-polymer for class-selective electrochemical detection of macrolide antibiotics in aqueous media**  
**Nguyen, Vu Bao Chau; Ayankojo, Akinrinade George; Reut, Jekaterina; Rappich, Jörg; Furchner, Andreas; Hinrichs, Karsten; Söritski, Vitali** Sensors and actuators B : chemical 2023 / art. 132768, 9 p. : ill <https://doi.org/10.1016/j.snb.2022.132768> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Molecularly imprinted polymer based electrochemical sensor for quantitative detection of SARS-CoV-2 spike protein**  
**Ayankojo, Akinrinade George; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali** Sensors and Actuators B: Chemical 2022 / Art. 131160 <https://doi.org/10.1016/j.snb.2021.131160> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Molecularly imprinted polymer-based SAW sensor for label-free detection of cerebral dopamine neurotrophic factor protein**  
**Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Saarma, Mart; Söritski, Vitali** Sensors and actuators B : chemical 2020 / art. 127708, 8 p. : ill <https://doi.org/10.1016/j.snb.2020.127708> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Molecularly imprinted poly(meta-phenylenediamine) based QCM sensor for detecting Amoxicillin**  
**Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Söritski, Vitali** Sensors and actuators B : chemical 2018 / p. 766-774 : ill <https://doi.org/10.1016/j.snb.2017.11.194> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**MO-NILM: A multi-objective evolutionary algorithm for NILM classification**  
**Machlev, Ram; Belikov, Juri; Beck, Yuval; Levron, Yoash** Energy and buildings 2019 / p. 134-144  
<https://doi.org/10.1016/j.enbuild.2019.06.046> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Monthly domestic hot water profiles for energy calculation in Finnish apartment buildings**  
**Ahmed, Kaiser; Pylsy, Petri; Kurnitski, Jarek** Energy and buildings 2015 / 77-85 : ill <https://doi.org/10.1016/j.enbuild.2015.03.051> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Motion control of a hovering biomimetic four-fin underwater robot**  
**Salumäe, Taavi; Chemori, Ahmed; Kruusmaa, Maarja** IEEE Journal of Oceanic Engineering 2019 / p. 54 - 71  
<https://doi.org/10.1109/JOE.2017.2774318> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Motor Mode Analysis of Exterior-Rotor PM Machine with Gramme's Winding**  
**Nukki, Rene; Kilk, Aleksander; Saarts, Samo; Tiimus, Kristjan** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 21-25 : ill <https://doi.org/10.5755/j01.eie.23.1.17579> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Moving average filter block implementation using USP-Awadhoot divider**  
**Patankar, Udayan Sunil; Flores, Miguel E.; Koel, Ants** Patankar, Sunil 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737938> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**MPPT and GMPPT Implementation for Buck-Boost Mode Control of quasi-Z-Source Inverter**  
**Husev, Oleksandr; Vinnikov, Dmitri; Roncero-Clemente, Carlos; Blaabjerg, Frede; Strzelecki, Ryszard** IEEE transactions on industrial electronics 2022 / p. 11348 - 11358 <https://doi.org/10.1109/TIE.2021.3125658> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A multi-agent system approach for optimal microgrid expansion planning under uncertainty**  
**Mishra, Sambeet; Bordin, Chiara; Tomasgard, Asgeir; Palu, Ivo** International journal of electrical power & energy systems 2019 / p. 696-709 : ill <https://doi.org/10.1016/j.ijepes.2019.01.044> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Multichannel electrical impedance spectroscopy analyzer with microfluidic sensors**  
**Ojarand, Jaan; Min, Mart; Koel, Ants** Sensors 2019 / art. 1891, 28 p. : ill <https://doi.org/10.3390/s19081891> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Multi-criteria design optimization of ultra large diameter permanent magnet generator**  
**Pabut, Ott; Eerme, Martin; Kallaste, Ants; Vaimann, Toomas** Elektronika ir elektrotehnika = Electronics and electrical engineering 2015 / p. 42-48 : ill <https://doi.org/10.5755/j01.eee.21.3.10278> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Multi-mode quasi-Z-source series resonant DC/DC converter for wide input voltage range applications**  
**Vinnikov, Dmitri; Chub, Andrii; Roasto, Indrek; Liivik, Liisa** Applied Power Electronics Conference and Exposition : APEC 2016 : Long Beach Convention & Entertainment Center, March 20-24, 2016 2016 / p. 2533-2539 : ill <https://doi.org/10.1109/APEC.2016.7468221> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Multi-nodal nano-actuator pacemaker for energy-efficient stimulation of cardiomyocytes**

Lu, Pengfei; Veletic, Mladen; **Laasmaa, Martin; Vendelin, Marko** Nano Communication Networks 2019 / art. 100270, 11 p. : ill <https://doi.org/10.1016/j.nancom.2019.100270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Multiphase quasi-z-source DC-DC converters for residential distributed generation systems**

**Chub, Andrii; Vinnikov, Dmitri; Liivik, Elizaveta; Jalakas, Tanel** IEEE transactions on industrial electronics 2018 / p. 8361-8371 : ill <https://doi.org/10.1109/TIE.2018.2801860> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A multiplexed FBG based sensor platform for flow and temperature measurements in the Baltic Sea**

Dzipsalski, A.; Morton, J. A. S.; Papachristou, N.; Maier, R. R. J.; MacPherson, W. N.; **Ristolainen, Asko; Kruusmaa, Maarja**; Reilent, E.; **Suhhova, Irina; Lips, Urmas** Proceedings of SPIE 2023 / art. 1264307-1 : ill <https://doi.org/10.1117/12.2679756> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **A multiplexed reconfigurable modular FBG-based sensor platform for flow and temperature measurements in the North Sea**

Dzipsalski, Adrian; Morton, Jonathan A. S.; Papchristou, Nikolitsa; Maier, Robert R. J.; MacPherson, William N.; **Ristolainen, Asko; Reilent, Enar; Kruusmaa, Maarja**; Wolf, Ben J.; Piri, Primoz; Van Netten, Sietse M.; **Suhhova, Irina; Lips, Urmas**; McFarlane, Nathan; MacLeod, Robert; Hendry, Mark; Sheehy, Jack; Almoghayer, Mohammed; Rojas, Natalia; Davies, Gareth Proceedings of SPIE 2024 / 6 p <https://doi.org/10.1117/12.3031643> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Multiplierless design of very large constant multiplications in cryptography**

**Aksoy, Levent**; Roy, Debapriya Basu; **Imran, Malik**; Karl, Patrick; **Pagliarini, Samuel Nascimento** IEEE Transactions on Circuits and Systems II : Express Briefs 2022 / p. 4503-4507 <https://doi.org/10.1109/TCSII.2022.3191662> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A multisensory, green, and energy efficient housing neuromarketing method**

Kaklauskas, Arturas; Ubarte, Ieva; Kalibatas, Darius; **Lill, Irene** Energies 2019 / art. 3836, 30 p. : ill <https://doi.org/10.3390/en12203836> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Multi-source district heating system full decarbonization strategies: Technical, economic, and environmental assessment**

Pakere, Ieva; Feofilovs, Maksims; **Lepiksaar, Kertu**; Vitolinš, Valdis; Blumberga, Dagnija Energy 2023 / art. 129296 <https://doi.org/10.1016/j.energy.2023.129296> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Multi-stage deep learning networks for automated assessment of electricity transmission infrastructure using fly-by images**

**Manninen, Henri**; Ramlal, Craig J.; Singh, Arvind; **Kilter, Jako; Landsberg, Mart** Electric power systems research 2022 / art. 107948 <https://doi.org/10.1016/j.epsr.2022.107948> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A multistage procedure of mobile vehicle acoustic identification for single-sensor embedded device**

**Astapov, Sergei; Riid, Andri** International journal of electronics and telecommunications 2013 / p. 151-160 : ill <https://doi.org/10.2478/eletel-2013-0018> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **NanoE-Tox: new and in-depth database concerning ecotoxicity of nanomaterials**

**Juganson, Katre**; Ivask, Angela; Blinova, Irina; Mortimer, Monika; Kahru, Anne Beilstein Journal of Nanotechnology 2015 / p. 1788 - 1804 <https://doi.org/10.3762/bjnano.6.183> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Narrowband internet of things (NB-IoT) : from physical (PHY) and media access control (MAC) layers perspectives**

**Mwakwata, Collins Burton; Malik, Hassan; Alam, Muhammad Mahtab; Le Moullec, Yannick**; Päränd, Sven; Mumtaz, Shahid Sensors 2019 / art. 2613, 34 p.: ill <https://doi.org/10.3390/s19112613> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **An NB-IoT based edge-of-things framework for energy-efficient image transfer**

**Khan, Sikandar Muhammad Zulqarnain; Le Moullec, Yannick; Alam, Muhammad Mahtab** Sensors 2021 / art. 5929, 21 p. : ill <https://doi.org/10.3390/s21175929> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Neural Architecture Search (NAS) for designing optimal power quality disturbance classifiers**

Wang, Qianchao; Kapuza, Itamar; Baimel, Dmitry; **Belikov, Juri**; Levron, Yoash; Machlev, Ram Electric Power Systems Research 2023 / art. 109574 <https://doi.org/10.1016/j.epsr.2023.109574> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Neural network control of green energy vehicles with blended braking systems**

**Vodovozov, Valery; Petlenkov, Eduard; Aksjonov, Andrei; Raud, Zoja** Renewable Energy & Power Quality Journal 2021 / p. 344-349 <https://doi.org/10.24084/repqj19.291> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Neural network-based model reference control of braking electric vehicles**

**Vodovozov, Valery; Aksjonov, Andrei; Petlenkov, Eduard; Raud, Zoja** Energies 2021 / art. 2373 <https://doi.org/10.3390/en14092373>



[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Neuro-fuzzy approach for fault prediction of mechanical bearing faults using vibration analysis**

**Shirokova, Veroonika; Kudelina, Karolina; Raja, Hadi Ashraf; Rjabtšikov, Viktor; Baraškova, Tatjana; Nutonen, Karle** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / p. 1-6 <https://doi.org/10.1109/IECON55916.2024.10905990> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Neuro-fuzzy framework for fault prediction in electrical machines via vibration analysis**

**Kudelina, Karolina; Raja, Hadi Ashraf** Energies 2024 / art. 2818 <https://doi.org/10.3390/en17122818> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New equation for optimal insulation dependency on the climate for office buildings**

**Ahmed, Kaiser; Kurnitski, Jarek** Energies 2021 / art. 321 <https://doi.org/10.3390/en14020321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New high-gain non-inverting buck-boost converter**

**Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / p. 1-6 : ill <https://doi.org/10.1109/IECON48115.2021.9590003> [Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **New high-gain transformerless DC/DC boost converter system**

**Ahmed, Hassan Yousif; Abdelrahim Abdelghafour, Omar Mohamed; Ali, Ziad M.** Electronics 2022 / art. 734 <https://doi.org/10.3390/electronics11050734> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New hysteresis current control for grid connected single-phase three-level quasi-Z-source inverter**

**Husev, Oleksandr; Vinnikov, Dmitri; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique** APEC 2014 : Twenty-Ninth Annual IEEE Applied Power Electronics Conference and Exposition : March 16–20, 2014, Fort Worth Convention Center - Fort Worth, Texas 2014 / p. 1765-1770 : ill <https://doi.org/10.1109/APEC.2014.6803544> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **A new method for contrasting energy performance and near-zero energy building requirements in different climates and countries**

**Kurnitski, Jarek** Energies 2018 / art. 1334, 22 p. : ill <https://doi.org/10.3390/en11061334> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A new modulated finite control set-model predictive control of quasi-Z-source inverter for PMSM drives**

**Ahmed, Abdelsalam A.; Bakeer, Abualkasim Ahmed Ali; Alhelou, Hassan Haes; Siano, Pierluigi; Mossa, Mahmoud A.** Electronics (Switzerland) 2021 / art. 2814 <https://doi.org/10.3390/electronics10222814> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New operation strategy for a grid-connected three-phase three-level NPC qZS inverter based on power losses**

**Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Husev, Oleksandr; Martins, Joao** Elektronika ir elektrotechnika = Electronics and electrical engineering 2016 / p. 60 - 65 <https://doi.org/10.5755/j01.eie.22.3.15316> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New opportunities in real-time diagnostics of induction machines**

**Baraškova, Tatjana; Kudelina, Karolina; Shirokova, Veroonika** Energies 2024 / art. 3265 <https://doi.org/10.3390/en17133265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A new resonant fault current limiter for improved wind turbine transient stability**

**Demin, Slava; Sitbon, Moshe; Aharon, Ilan; Barbi, Eli; Machlev, Ram; Belikov, Juri; Levron, Yoash; Baimel, Dmitry** Electric Power Systems Research 2023 / art. 109600, 8 p <https://doi.org/10.1016/j.epsr.2023.109600> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New shoot-through control methods for qZSI-based DC/DC converters**

**Roasto, Indrek; Vinnikov, Dmitri; Zakis, Janis; Husev, Oleksandr** IEEE transactions on industrial informatics 2013 / p. 640-647 : ill <https://doi.org/10.1109/TII.2012.2224353> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A new single-phase flying inductor-based common grounded converter for dual-purpose application**

**Husev, Oleksandr; Vosoughi Kurdkandi, Naser; Marangalu, Milad Ghavipanjeh; Vinnikov, Dmitri; Hosseini, Seyed Hossein** IEEE transactions on industrial electronics 2023 / p. 7913-7923 <https://doi.org/10.1109/TIE.2022.3215832> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New type of bridge fault current limiter with reduced power losses for transient stability improvement of DFIG wind farm**

**Baimel, Dmitry; Chowdhury, Nilanjan Roy; Belikov, Juri; Levron, Yoash** Electric Power Systems Research 2021 / art. 107293, 8 p. : ill <https://doi.org/10.1016/j.epsr.2021.107293> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A new virtual synchronous generator design based on the SMES system for frequency stability of low-inertia power grids**

Magdy, Gaber; Bakeer, Abualkasim Ahmed Ali; Nour, Morsy; **Petlenkov, Eduard** Energies 2020 / art. 5641, 17 p. : ill

<https://doi.org/10.3390/en13215641> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Nonlinear dynamics in PEH for enhanced power output and vibration suppression in metastructures**

**Alimohammadi, Hossein; Vassiljeva, Kristina;** HosseinNia, S. Hassan; **Petlenkov, Eduard** Nonlinear Dynamics 2024 / p. 12941

- 12963 <https://doi.org/10.1007/s11071-024-09739-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Nonlinear orientation controller for a compliant robotic fish based on asymmetric actuation**

**Meurer, Christian; Simha, Ashutosh; Kotta, Ülle; Kruusmaa, Maarja** 2019 International Conference on Robotics and Automation : ICRA 2019, Palais des Congres de Montreal, Canada, 20-24 May, 2019 2019 / Art. 8793892 ; p. 4688-4694

<https://doi.org/10.1109/ICRA.2019.8793892> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Non-standard electrode placement strategies for ECG signal acquisition**

**Metshein, Margus; Krivošei, Andrei; Abdullayev, Anar; Annus, Paul; Märten, Olev** Sensors 2022 / art. 9351

<https://doi.org/10.3390/s22239351> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Notes on applicability of the impedance spectroscopy for characterization of materials and substances**

**Annus, Paul; Land, Raul; Min, Mart;** Reidla, Marko; **Rist, Marek** I2MTC 2016 : 2016 IEEE International Instrumentation and Measurement Technology Conference : May 23-26, 2016, Taipei International Convention Center, Taipei, Taiwan : proceedings 2016

/ p. 1052-1057 : ill <https://doi.org/10.1109/I2MTC.2016.7520513> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Novel active-passive two-way ranging protocols for UWB positioning systems**

**Laadung, Taavi; Ulp, Sander; Alam, Muhammad Mahtab; Le Moullec, Yannick** IEEE sensors journal 2022 / p. 5223-5237 : ill

<https://doi.org/10.1109/JSEN.2021.3125570> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Novel approaches to electrical machine fault diagnosis**

**Vaimann, Toomas;** Antonino-Daviu, Jose Alfonso; **Rassõlkin, Anton** Energies 2023 / art. 5641 <https://doi.org/10.3390/en16155641>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Novel concept of solar converter with universal applicability for DC and AC microgrids**

**Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri;** Roncero-Clemente, Carlos; Kouro, Samir IEEE transactions on industrial electronics 2022 / p. 4329-4341 : ill <https://doi.org/10.1109/TIE.2021.3086436> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

**Novel family of flying inductor-based single-stage buck-boost inverters**

**Vosoughi Kurdkandi, Naser; Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri** IEEE journal of emerging and selected topics in power electronics 2022 / p. 6020-6032 <https://doi.org/10.1109/JESTPE.2022.3161113> [Journal metrics at Scopus](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Novel family of single-phase modified impedance-source buck-boost multilevel inverters with reduced switch count**

**Husev, Oleksandr;** Strzelecki, Ryszard; Blaabjerg, Frede; Chopyk, Vasily; **Vinnikov, Dmitri** IEEE transactions on power electronics 2016 / p. 7580-7591 : ill <https://doi.org/10.1109/TPEL.2016.2569535> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

**Novel family of single-stage buck-boost inverters based on unfolding circuit**

**Husev, Oleksandr; Matiushkin, Oleksandr; Roncero-Clemente, Carlos;** Blaabjerg, Frede; **Vinnikov, Dmitri** IEEE transactions on power electronics 2019 / p. 7662-7676 : ill <https://doi.org/10.1109/TPEL.2018.2879776> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

**A novel flying inductor based grid-connected inverter with buck-boost ability**

**Vosoughi Kurdkandi, Naser; Husev, Oleksandr; Rahimpour, Saeed;** Roncero-Clemente, Carlos; **Matiushkin, Oleksandr; Vinnikov, Dmitri** IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / 6 p

<https://doi.org/10.1109/IECON49645.2022.9968954> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Novel gramian-based structure-preserving model order reduction for power systems with high penetration of power converters**

**de Moraes Dias Campos, Nathalia; Sarnet, Tanel; Kilter, Jako** IEEE transactions on power systems 2023 / p. 5381-5391

<https://doi.org/10.1109/TPWRS.2022.3228458> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Novel isolated power conditioning unit for micro wind turbine applications**

**Chub, Andrii; Husev, Oleksandr; Blinov, Andrei; Vinnikov, Dmitri** IEEE transactions on industrial electronics 2017 / p. 5984-

5993 : ill <https://doi.org/10.1109/TIE.2016.2645890> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A novel physical fatigue assessment method utilizing heart rate variability and pulse arrival time towards personalized feedback with wearable sensors**

Allik, Ardo; Pilt, Kristjan; Viigimäe, Moonika; Fridolin, Ivo; Jervan, Gert Sensors 2022 / art. 1680 <https://doi.org/10.3390/s22041680> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A novel renewable powered stand-alone electric vehicle parking-lot model**

Jawad, Muhammad; Asghar, Hira; Arshad, Jehangir; Javed, Abbas; Qureshi, Muhammad Bilal; Ali, Sahibzada Muhammad; Shabbir, Noman; Rassölkin, Anton Sustainable energy, grids and networks 2023 / art. 100992, 14 p. : ill <https://doi.org/10.1016/j.segan.2022.100992> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Novel space vector pulse width modulation strategies for single-phase three-level NPC impedance-source inverters**

Shults, Tatiana; Husev, Oleksandr; Blaabjerg, Frede; Roncero, Carlos; Romero-Cadaval, Enrique; Vinnikov, Dmitri IEEE transactions on power electronics 2019 / p. 4820-4830: ill <https://doi.org/10.1109/TPEL.2018.2859194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A Novel vector control strategy for a six-phase induction motor with low torque ripples and harmonic currents**

Heidari, Hamidreza; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants; Taheri, Asghar; Holakooie, Mohammad Hosein; Belahcen, Anouar Energies 2019 / art. 1102, 14 p. : ill <https://doi.org/10.3390/en12061102> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Object segmentation for autonomous driving using iseAuto data**

Gu, Junyi; Bellone, Mauro; Sell, Raivo; Lind, Artjom Electronics (Switzerland) 2022 / Art. 1119 <https://doi.org/10.3390/electronics11071119> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Observation and stabilisation of coupled timelfractional reaction–advection–diffusion systems with spatiallylvarying coefficients**

Chen, Juan; Tepljakov, Aleksei; Petlenkov, Eduard IET control theory and applications 2020 / p. 3128–3138 <https://doi.org/10.1049/iet-cta.2020.0520> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Observer-based detection and identification of sensor attacks in networked CPSs**

Chowdhury, Nilanjan Roy; Belikov, Juri; Baimel, Dmitry; Levron, Yoash Automatica 2020 / art. 109166, 13 p <https://doi.org/10.1016/j.automatica.2020.109166> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Office building tenants' electricity use model for building performance simulations**

Ferrantelli, Andrea; Kuivjõgi, Helena; Kurnitski, Jarek; Thalfeldt, Martin Energies 2020 / art. 5541 <https://doi.org/10.3390/en13215541> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oil prices, unemployment and the financial crisis in oil-importing countries : The case of Spain**

Ordonez, Javier; Monfort, Mercedes; Cuestas, Juan Carlos Energy 2019 / p. 625-634 <https://doi.org/10.1016/j.energy.2019.05.209> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The oil spray cooling system of automotive traction motors : the state of the art**

Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; Kallaste, Ants; Cardoso, Antonio J. Marques; Belahcen, Anouar; Vaimann, Toomas IEEE Transactions on Transportation Electrification 2023 / p. 428-451 <https://doi.org/10.1109/TTE.2022.3189596> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**On accessibility conditions for state space nonlinear control systems on homogeneous time scales**

Bartosiewicz, Zbigniew; Kotta, Ülle; Mullari, Tanel; Tõnso, Maris; Wyrwas, Małgorzata Systems & control letters 2016 / p. 8-13 <https://doi.org/10.1016/j.sysconle.2016.09.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**On coverage of critical nodes in UAV-assisted emergency networks**

Waheed, Maham; Ahmad, Rizwan; Ahmed, Waqas; Alam, Muhammad Mahtab; Magarini, Maurizio Sensors 2023 / art. 1586 <https://doi.org/10.3390/s23031586> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**On integrability of observable space for discrete-time polynomial control systems**

Kawano, Yu; Kotta, Ülle IEEE transactions on automatic control 2015 / p. 1987-1991 <https://doi.org/10.1109/TAC.2014.2365685> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**On research challenges in hybrid medium-access control protocols for IEEE 802.15.6 WBANs**

Saboor, Abdul; Ahmad, Rizwan; Ahmed, Waqas; Kiani, Adnan Khalid; Le Moullec, Yannick; Alam, Muhammad Mahtab IEEE Sensors Journal 2019 / p. 8543 - 8555 <https://doi.org/10.1109/JSEN.2018.2883786> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**On robust stability of uncertain control systems with time delay : an approach based on the overlap of value sets**

Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard IEEE Transactions on Automatic Control 2024 / p. 6349 - 6356 <https://doi.org/10.1109/TAC.2024.3381912> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **On stable cones of polynomials via reduced Routh parameters**

**Nurges, Ülo; Belikov, Juri; Artemtšuk, Igor** Kybernetika 2016 / p. 461-477 <https://doi.org/10.14736/kyb-2016-3-0461> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **On the legal and economic implications of tele-driving**

**Hoffmann, Thomas; Prause, Gunnar Klaus** Machines 2023 / art. 331, 16 p. : ill <https://doi.org/10.3390/machines11030331> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **On the regulatory framework for last-mile delivery robots**

**Hoffmann, Thomas; Prause, Gunnar Klaus** Machines 2018 / art. 33, 16 p <https://doi.org/10.3390/machines6030033> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **On the stopping criteria in nonlinear unknown input observability condition**

Sarafrazi, Mohammad Amin; **Kotta, Ülle**; Bartosiewicz, Zbigniew IEEE transactions on automatic control 2022 / p. 4733-4737 <https://doi.org/10.1109/TAC.2022.3160133> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **On-Desk Model-Based Study for Evaluating the Effect of Squeezing the Arteries in the Forearm on the Bioimpedance and Pressure of Blood**

**Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Lotamõis, Kristina; Märtens, Olev** Journal of sensors 2023 / art. 5710835 <https://doi.org/10.1155/2023/5710835> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **1 kV distribution system as a cost effective alternative to the medium voltage systems**

**Hõbejõgi, Tiit; Vill, Kaija; Valtin, Juhan** Przegląd elektrotechniczny = Electrical review 2016 / p. 1-4 : ill <https://doi.org/10.15199/48.2016.02.01> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#)

### **On-line corrosion monitoring of plate structures based on guided wave tomography using piezoelectric sensors**

Rao, Jing; **Ratassepp, Madis**; Lisevych, Danylo; Caffoor, Mahadhir Hamzah; Fan, Zheng Sensors 2017 / art. 2882, p. 1-14 : ill <https://doi.org/10.3390/s17122882> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **On-line data validation in distributed data fusion**

**Preden, Jürjo-Sören**; Llinas, James; Rogova, Galina; **Pahtma, Raido; Mõtus, Leo** Ground/air multisensor interoperability, integration, and networking for persistent ISR IV 2013 / p. 1-12 : ill <https://doi.org/10.1117/12.2016249> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Open source 3D printing as a means of learning : an educational experiment in two high schools in Greece**

**Kostakis, Vasileios; Niaros, Vasileios; Giotitsas, Christos** Telematics and informatics 2015 / p. 118-128 : ill <https://doi.org/10.1016/j.tele.2014.05.001> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Open source dataset generator for power quality disturbances with deep-learning reference classifiers**

Machlev, Ram; Chachkes, A.; **Belikov, Juri**; Beck, Yuval; Levron, Yoash Electric power systems research 2021 / art. 107152, 7 p. : ill <https://doi.org/10.1016/j.epsr.2021.107152> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **An open surface drifter for river flow field characterization**

Fuentes-Pérez, Juan Francisco; Sanz-Ronda, Francisco Javier; **Tuhtan, Jeffrey Andrew** Sensors 2022 / art. nr. 9918 <https://doi.org/10.3390/s22249918> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Open-source level 4 autonomous shuttle for last - mile mobility**

**Sell, Raivo; Malayjerdi, Mohsen; Pikner, Heiko; Razdan, Rahul; Malayjerdi, Ehsan; Bellone, Mauro** 2024 IEEE 29th International Conference on Emerging Technologies and Factory Automation (ETFA) 2024 / 6 p <https://doi.org/10.1109/ETFA61755.2024.10710975> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Operating wireless sensor nodes without energy storage : experimental results with transient computing**

**Ahmed, Faisal; Ahmed, Tauseef**; Muhammad, Yar; **Le Moullec, Yannick; Annus, Paul** Electronics 2016 / art. 89, p. 1-14 : ill <https://doi.org/10.3390/electronics5040089> [Journal metrics](#) [at scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Operation and design of series-resonant current-source full-bridge dc-dc converter**

Verbytskyi, Ievgen; **Blinov, Andrei; Vinnikov, Dmitri**; Peftitsis, Dimosthenis IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / 6 p <https://doi.org/10.1109/IECON48115.2021.9589548> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Operation of district heat network in electricity and balancing markets with the power-to-heat sector coupling**

Javanshir, Nima; Syri, Sanna; Tervo, Seela; **Rosin, Argo** Energy 2023 / art. 126423 <https://doi.org/10.1016/j.energy.2022.126423> [Journal metrics](#) [at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Operation optimization of an integrated energy service provider with ancillary service provision**



Lai, Xinyi; Xie, Zhihan; Xu, Danlu; Ying, Shuyang; Zeng, Yiming; Jiang, Chenwei; Wang, Fei; **Wen, Fushuan; Palu, Ivo** Energies 2022 / art. 4376, 15 p. : ill <https://doi.org/10.3390/en15124376> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optical and photoelectric properties of nanolamellar structures obtained by thermal annealing of InSe plates in Zn vapours**

Untila, Dumitru; Evtodiev, Igor; Caraman, Iuliana; **Spalatu, Nicolae**; Dmitroglou, Liliana; Caraman, Mihail Physica status solidi (a) : applications and materials science 2018 / art. 1700434, p. 1-7 : ill <https://doi.org/10.1002/pssa.201700434> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optical detection methods for high-throughput fluorescent droplet microflow cytometry**

**Pärnamets, Kaiser; Pardy, Tamas; Koel, Ants; Rang, Toomas; Scheler, Ott; Le Moullec, Yannick; Afrin, Fariha** Micromachines 2021 / art. 345, 20 p. : ill <https://doi.org/10.3390/mi12030345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optical real-time cardiorenal toxin uric acid measurement during hemodialysis using a miniaturized optical sensor**

**Holmar, Jana; Arund, Jürgen**; Adoberg, Annika; Leis, Liisi; Luman, Merike; **Paats, Joosep; Pilt, Kristjan; Tanner, Risto; Fridolin, Ivo** Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS2023 2023 / 4 p. : ill <https://doi.org/10.1109/EMBC40787.2023.10340379> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**An optimal control method for storage systems with ramp constraints, based on an on-going trimming process**

Zargari, Noa; Ofir, Ron; Chowdhury, Nilanjan Roy; **Belikov, Juri**; Levron, Yoash IEEE Transactions on Control Systems Technology 2023 / p. 493-496 <https://doi.org/10.1109/TCST.2022.3169906> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimal control of automatic manipulator for elimination of galvanic line load oscillation**

Autsou, Siarhei; **Rassõlkin, Anton; Vaimann, Toomas; Demidova, Galina**; Saroka, Viktor; Karpovich, Dzmitry; **Kallaste, Ants** Periodica polytechnica electrical engineering and computer science 2021 / 15 p. : ill <https://doi.org/10.3311/PPee.15893> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Optimal control of Lossy energy storage systems with nonlinear efficiency based on dynamic programming and Pontryagin's minimum principle**

Chowdhury, Nilanjan Roy; Ofir, Ron; Zargari, Noa; Baimel, Dmitry; **Belikov, Juri**; Levron, Yoash IEEE transactions on energy conversion 2021 / p. 524-533 <https://doi.org/10.1109/TEC.2020.3004191> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimal coupling coefficient calculation for inductances in interleaved bidirectional DC-DC converters**

**Tytelmaier, Kostiantyn**; Husev, Oleksandr; Veligorskyi, Oleksandr; Khomenko, Maksym; Maladyka, D. Technical Electrodynamics 2018 / p. 41-46 <https://doi.org/10.15407/techned2018.04.041> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Optimal energy management of grid-connected multi-microgrid systems considering demand-side flexibility : a two-stage multi-objective approach**

Karimi, Hamid; Gharehpetian, Gevork B.; **Ahmadihangar, Roya; Rosin, Argo** Electric power systems research 2023 / art. 108902 <https://doi.org/10.1016/j.epsr.2022.108902> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimal rotating receiver angles estimation for multicoil dynamic wireless power transfer**

Pakhaliuk, Bohdan; Shevchenko, Viktor; Mućko, Jan; **Husev, Oleksandr**; Lukianov, Mykola; Kołodziejek, Piotr; Strzelecka, Natalia; Strzelecki, Ryszard Energies 2021 / art. 6144, 15 p. : ill <https://doi.org/10.3390/en14196144> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimal scheduling of HVACs in islanded residential microgrids to reduce BESS size considering effect of discharge duration on voltage and capacity of battery cells**

Sanjareh, Mehrdad Bagheri; Nazari, Mohammad Hassan; Gharehpetian, Gevork B.; **Ahmadihangar, Roya; Rosin, Argo** Sustainable Energy, Grids and Networks 2021 / art. 100424 <https://doi.org/10.1016/j.segan.2020.100424> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimal sliding window selection in non-overlapping backoff algorithm for IEEE 802.15.6 WBAN**

Saboor, Abdul; Ahmad, Rizwan; Ahmed, Waqas; **Alam, Muhammad Mahtab**; Radwan, Ayman IEEE communications letters 2024 / p. 1467-1471 <https://doi.org/10.1109/LCOMM.2024.3384755> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimal tuning of fractional order sliding mode controller for PMSM speed using neural network with reinforcement learning**

**Zahraoui, Younes**; Zaihidee, Fardila M.; Kermadi, Mostefa; Mekhilef, Saad; Alhamrouni, Ibrahim; Seyedmahmoudian, Mehdi; Stojcevski, Alex Energies 2023 / art. 4353 <https://doi.org/10.3390/en16114353> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimal ultra-local model control integrated with load frequency control of renewable energy sources based microgrids**

**Bakeer, Abualkasim Ahmed Ali;** Magdy, Gaber; **Chub, Andrii;** Jurado, Francisco; Rihan, Mahmoud Energies 2022 / art. 9177

<https://doi.org/10.3390/en15239177> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimisation of the ethylene glycol reduction method for the synthesis of platinum-ceria-carbon materials as catalysts for the methanol oxidation reaction**

Nguyen, Huy; Nerut, Jaak; Kasuk, Heili; Härmas, Meelis; Valk, Peeter; Romann, Tavo; Koppel, Miriam; Teppor, Patrick; Aruväli, Jaan; Korjus, Ove; **Volobujeva, Olga;** Lust, Enn Journal of solid state electrochemistry 2023 / p. 313–326 : ill [https://doi.org/10.1007/s10008-](https://doi.org/10.1007/s10008-022-05326-4)

[022-05326-4](https://doi.org/10.1007/s10008-022-05326-4) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimization and implementation of the proportional-resonant controller for grid-connected inverter with significant computation delay**

**Husev, Oleksandr;** Roncero-Clemente, Carlos; **Makovenko, Elena;** Pires Pimentel, Sergio; **Vinnikov, Dmitri;** Martins, Joao

IEEE transactions on industrial electronics 2020 / p. 1201 –1211 <https://doi.org/10.1109/TIE.2019.2898616> [Journal metrics at Scopus](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimization of a 3D-printed permanent magnet coupling using genetic algorithm and Taguchi method**

**Andriushchenko, Ekaterina;** Kallaste, Ants; **Belahcen, Anouar;** Vaimann, Toomas; **Rassõlkin, Anton;** Heidari, Hamidreza;

**Tiismus, Hans** Electronics 2021 / art. 494, 16 p. : ill <https://doi.org/10.3390/electronics10040494> [Journal metrics at Scopus](#) [Article at Scopus](#)

[Journal metrics at WOS](#) [Article at WOS](#)

**Optimization of boundary scan tests using FPGA-based efficient scan architectures**

**Aleksejev, Igor;** Devadze, Sergei; **Jutman, Artur;** Shibin, Konstantin Journal of electronic testing : theory and applications

(JETTA) 2016 / p. 245-255 : ill <https://doi.org/10.1007/s10836-016-5588-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

**Optimization of La<sub>0.2</sub>Sr<sub>0.7</sub>- xCa xTi<sub>0.95</sub>Fe<sub>0.05</sub>O<sub>3</sub>-δfuel electrode stoichiometry for solid oxide fuel-cell application**

Paydar, Sara; Kooser, Kuno; Möller, Priit; **Volobujeva, Olga;** Granroth, Sari; Lust, Enn; Nurk, Gunnar ACS Applied Energy Materials

2022 / p. 10119 - 10129 <https://doi.org/10.1021/acsaem.2c01808> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

**Optimization of multisine excitation for a bioimpedance measurement device**

**Ojarand, Jaan;** Annus, Paul; Min, Mart; **Gorev, Maksim;** Ellervee, Peeter I2MTC 2014 IEEE International Instrumentation and

Measurement Technology Conference : Instrumentation and Measurement for Sustainable Development : Radisson Montevideo

Victoria Plaza Hotel & Conference Center, May 12-15, 2014, Montevideo, Uruguay : proceedings 2014 / p. 829-832 : ill

<https://doi.org/10.1109/I2MTC.2014.6860859> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Optimization of renewable energy for buildings with energy storages and 15-minute power balance**

**Savolainen, Rebecka;** Lahdelma, Risto Energy 2022 / art. 123046 <https://doi.org/10.1016/j.energy.2021.123046> [Journal metrics at Scopus](#)

[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimized acoustic localization with SRP-PHAT for monitoring in distributed sensor networks**

**Astapov, Sergei;** Berdnikova, Julia; **Preden, Jürgo-Sören** International journal of electronics and telecommunications 2013 / p.

383-390 : ill <https://doi.org/10.2478/eletel-2013-0047> [Journal metrics at Scopus](#) [Article at Scopus](#)

**An optimized design of delay-and energy-efficient Booth multiplier**

**Rafiq, Ahsan;** Jenihhin, Maksim e-Prime - Advances in Electrical Engineering, Electronics and Energy 2024 / art. 100698

<https://doi.org/10.1016/j.prime.2024.100698> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Optimizing size and economic feasibility assessment of photovoltaic and energy storage setup in residential applications**

**Nourollahi Hokmabad, Hossein;** Husev, Oleksandr; **Kurnitski, Jarek;** Belikov, Juri Sustainable energy, grids and networks

2024 / art. 101385, 15 p. : ill <https://doi.org/10.1016/j.segan.2024.101385> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

[Article at WOS](#)

**Optimizing the deployment of multi-UAVs in emergency response networks**

Hassan, Ali; Javed, Sadaf; Ahmad, Rizwan; Ahmed, Waqas; Kiani, Adnan; **Alam, Muhammad Mahtab** 2024 19th Biennial Baltic

Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737973> [Conference proceedings at Scopus](#) [Article at Scopus](#)

[Article at WOS](#)

**Optimum electromagnetic modelling of RF MEMS switches**

**Ziko, Mehadi Hasan;** Koel, Ants Elektronika ir elektrotehnika = Electronics and electrical engineering 2018 / p. 46-50 : ill

<https://doi.org/10.5755/j01.eie.24.5.21842> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Orthogonal interpolation method for order reduction of a synchronous machine model**

Far, Mehmar Farzam; Martin, Florian; **Belahcen, Anouar;** Montier, Laurent; Henneron, Thomas IEEE transactions on magnetics

2018 / 8100506, p. 1-6 : ill <https://doi.org/10.1109/TMAG.2017.2768328> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Outdoor thermal comfort optimization in a cold climate to mitigate the level of urban heat island in an urban area**  
**Eslamirad, Nasim; Sepulveda Luque, Abel; De Luca, Francesco; Lylykangas, Kimmo Sakari; Ben Yahia, Sadok** *Energies* 2023 / art. 4546, 28 p. : ill <https://doi.org/10.3390/en16124546> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Output voltage control system for a three-level neutral-point clamped quasi-Z-source inverter**  
**Roncero-Clemente, Carlos; Husev, Oleksandr; Stepenko, Serhii; Romero-Cadaval, Enrique; Vinnikov, Dmitri** *Przegląd elektrotechniczny = Electrical review* 2013 / p. 76-80 : ill <http://pe.org.pl/articles/2013/5/16.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

**An overview and comprehensive comparative evaluation of constant-frequency voltage buck control methods for series resonant DC–DC converters**  
**Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri; Bakeer, Abualkasim Ahmed Ali** *IEEE Open Journal of the Industrial Electronics Society* 2021 / p. 65 - 79 <https://doi.org/10.1109/OJIES.2020.3048003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Overview and future challenges of nearly zero-energy building (nZEB) design in Eastern Europe**  
**Attia, Shady; Kurnitski, Jarek; Kosin, Piotr; Borodinecs, Anatolijs; Belafi, Zsafia Deme; Istvan, Kistelegdi; Krstic, Hrvoje; Moldovan, Macedon; Visa, Ion; Mihailov, Nicolay** *Energy and buildings* 2022 / art. 112165 <https://doi.org/10.1016/j.enbuild.2022.112165> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Overview of battery energy storage systems readiness for digital twin of electric vehicles**  
**Zequera, Rolando Antonio Gilbert; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants** *IET Smart Grid* 2023 / p. 5-16 <https://doi.org/10.1049/stg2.12101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Overview of digital twin platforms for EV applications**  
**Mohamed, Mahmoud Ibrahim Hassanin; Rjabtsikov, Viktor; Zequera, Rolando Antonio Gilbert** *Sensors* 2023 / art. 1414, 15 p. : ill <https://doi.org/10.3390/s23031414> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation energy efficiency in water treatment with gas-phase pulsed corona discharge as a function of spray density**  
**Tikker, Priit; Kornev, Iakov; Preis, Sergei** *Journal of electrostatics* 2020 / art. 103466, 5 p. : ill <https://doi.org/10.1016/j.elstat.2020.103466> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of aqueous organic molecules in gas-phase pulsed corona discharge affected by sodium dodecyl sulphate: Explanation of variability**  
**Onga, Liina; Boroznjak, Roman; Kornev, Iakov; Preis, Sergei** *Journal of electrostatics* 2021 / art. 103581, 6 p <https://doi.org/10.1016/j.elstat.2021.103581> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of reactive azo-dyes with pulsed corona discharge : surface reaction enhancement**  
**Onga, Liina; Kornev, Iakov; Preis, Sergei** *Journal of electrostatics* 2020 / art. 103420, 5 p. : ill <https://doi.org/10.1016/j.elstat.2020.103420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of ubiquitous aqueous pharmaceuticals with pulsed corona discharge**  
**Derevshchikov, Vladimir; Dulova, Niina; Preis, Sergei** *Journal of electrostatics* 2021 / art. 103567, 9 p.: ill <https://doi.org/10.1016/j.elstat.2021.103567> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**P3R – Partial power post regulator for DC buildings application**  
**Carvalho, Edivan Laercio; Chub, Andrii; Blinov, Andrei; Rathore, Akshay Kumar; Vinnikov, Dmitri** *IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society* 2024 / 6 p <https://doi.org/10.1109/IECON55916.2024.10905720> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**A parallel estimation system of stator resistance and rotor speed for active disturbance rejection control of six-phase induction motor**  
**Heidari, Hamidreza; Rassölkin, Anton; Holakooie, Mohammad Hosein; Vaimann, Toomas; Kallaste, Ants; Belahcen, Anouar; Lukichev, Dmitry** *Energies* 2020 / 17 p <https://doi.org/10.3390/en13051121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Parallel pseudo-exhaustive testing of array multipliers with data-controlled segmentation**  
**Oyeniran, Adeboye Stephen; Azad, Siavoosh Payandeh; Ubar, Raimund-Johannes** 2018 *IEEE International Symposium on Circuits and Systems (ISCAS)* : 27-30 May 2018, Florence, Italy : proceedings 2018 / 5 p.: ill <https://doi.org/10.1109/ISCAS.2018.8350936> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Parameter estimation of PEM fuel cells employing the hybrid grey wolf optimization method**

Miao, Di; Chen, Wei; Zhao, Wei; **Demsas, Tekle** Energy 2020 / Art. 116616 <https://doi.org/10.1016/j.energy.2019.116616> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Parameters identification and modeling of high-frequency current transducer for partial discharge measurements**

Shafiq, Muhammad; **Kütt, Lauri**; Lehtonen, Matti; Nieminen, Tatu; Hashmi, Murtaza IEEE sensors journal 2013 / p. 1081-1091 : ill <https://doi.org/10.1109/JSEN.2012.2227712>  
[https://www.academia.edu/101513170/Parameters\\_Identification\\_and\\_Modeling\\_of\\_High\\_Frequency\\_Current\\_Transducer\\_for\\_Partial\\_Discharge\\_Measurements](https://www.academia.edu/101513170/Parameters_Identification_and_Modeling_of_High_Frequency_Current_Transducer_for_Partial_Discharge_Measurements) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Pathway analysis of a zero-emission transition in the Nordic-Baltic region**

Lund, Peter D.; Skytte, Klaus; Bolwig, Simon; Bolkesjö, Torjus Folsland; **Koduvere, Hardi** Energies 2019 / art. 3337, 20 p. : ill <https://doi.org/10.3390/en12173337> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**PCB design impact on GaN-Based converter operation**

**Husev, Oleksandr; Jalakas, Tanel; Vinnikov, Dmitri; Vosoughi Kurdkandi, Naser**; Persson, Eric 2023 IEEE Applied Power Electronics Conference and Exposition (APEC), 19-23 March 2023 : proceedings 2023 / p. 640-650  
<https://doi.org/10.1109/APEC43580.2023.10131547> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Performance assessment of TSO-DSO using volt-var control at smart-inverters : case of Vestfold and Telemark in Norway**

**Astapov, Victor**; Trashchenkov, Sergei; Gonzalez-Longatt, Francisco; Topic, Danijel International journal of electrical and computer engineering system 2022 / p. 48-61 <https://doi.org/10.32985/ijeces.13.1.6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Performance comparison of PD data acquisition techniques for condition monitoring of medium voltage cables**

Shafiq, Muhammad; **Kiitam, Ivar**; Kauhaniemi, Kimmo; Taklaja, Paul; **Kütt, Lauri; Palu, Ivo** Energies 2020 / art. 4272, 14 p. : ill <https://doi.org/10.3390/en13164272> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Performance evaluation of step-up/down partial power converters based on current-fed DC-DC topologies**

**Yadav, Neelesh; Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri**; Galkin, Ilya; Abdelrahim Abdelghafour, Omar Mohamed IEEE transactions on industry applications 2024 / p. 7111-7124 : ill <https://doi.org/10.1109/TIA.2024.3413050> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Performance evaluation of the universal photovoltaic string converter during the operation in DC microgrid environment**

**Matiushkin, Oleksandr; Vinnikov, Dmitri; Husev, Oleksandr** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-6 : ill <https://doi.org/10.1109/IECON48115.2021.9589473> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Performance improvement of PWM control methods for voltage step-down in series resonant DC–DC converters**

**Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri** Energies 2020 / art. en13174569 ; 18 p <https://doi.org/10.3390/en13174569> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Performances of PID and different fuzzy methods for controlling a ball on beam**

**Vu, Trieu Minh; Tamre, Mart; Moezzi, Reza; Mets, Oliver; Jürise, Mart; Pölder, Ahti; Teder, Leo; Juurma, Märt** Open engineering 2016 / p. 145-151 : ill <https://doi.org/10.1515/eng-2016-0018> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Permanent magnet synchronous machine control performance and analysis for environment-friendly electric vehicle applications**

**Sardar, Muhammad Usman**; Yaqoob, Muhammad; Akbar, Siddique; Shah, Syed Imran Ahmad; Shahid, Muhammad Usama; Mutloob, Tayyaba Engineering Proceedings 2023 / art. 7, p. 1–6 <https://doi.org/10.3390/engproc2023046007> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Permanent magnets in sustainable energy: comparative life cycle analysis**

Orlova, Svetlana; **Rassölkín, Anton** Energies 2024 / art. 6384 <https://doi.org/10.3390/en17246384> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Permittivity and breakdown voltage study of the epoxy-based nanocomposites**

Siddique, Abubakar; Arshad, Amna; Aslam, Waseem; Fatima, Maham; **Sardar, Muhammad Usman**; Noon, Muhammad Asim International review of electrical engineering 2023 / p. 373-382 <https://doi.org/10.15866/iree.v18i5.22518> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Photocurrent generation in carbon nanotube/cubic-phase HfO<sub>2</sub> nanoparticle hybrid nanocomposites**

**Rauwel, Protima**; Galeckas, Augustinas; **Salumaa, Martin**; Ducroquet, Frederiquet; **Rauwel, Erwan** Beilstein journal of nanotechnology 2016 / p. 1075-1085 : ill <https://doi.org/10.3762/bjnano.7.101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Photoplethysmography as an alternative to impedance cardiography-based hemodynamic feature point detection**



**Metshein, Margus; Annus, Paul; Abdullayev, Anar; Krivošei, Andrei; Land, Raul; Märten, Olev** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 5 p <https://doi.org/10.1109/BEC61458.2024.10737936> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Photoreflectance and photoluminescence study of antimony selenide crystals**

Kondrotas, Rokas; Nedzinskas, Ramunas; **Krustok, Jüri; Grossberg-Kuusk, Maarja**; Talaikis, Martynas; Tumėnas, Saulius; Suchodolskis, Arturas; Žaltauskas, Raimundas; Sereika, Raimundas ACS Applied Energy Materials 2022 / p. 14769-14778 <https://doi.org/10.1021/acsaem.2c02131> [Journal metrics at Scopus](#) [Article at scopus](#) [Journal metrics at WOS](#) [Article at Scopus](#)

**Photovoltaic energy yield improvement in two-stage solar microinverters**

**Chub, Andrii; Vinnikov, Dmitri; Stepenko, Serhii; Liivik, Elizaveta**; Blaabjerg, Frede Energies 2019 / art. 3774, 17 p. : ill <https://doi.org/10.3390/en12193774> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Photovoltaic module and submodule level power electronics and control**

Spagnuolo, Giovanni; Kouro, Samir; **Vinnikov, Dmitri** IEEE Transactions on Industrial Electronics 2019 / p. 3856 - 3859 <https://doi.org/10.1109/TIE.2018.2883187> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**PI parameter influence on underfloor heating energy consumption and setpoint tracking in nZEBs**

**Kull, Tuule Mall; Thalfeldt, Martin; Kurnitski, Jarek** Energies 2020 / art. 2068, 20 p. : ill <https://doi.org/10.3390/en13082068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Piezoelectric compensation of structural damping in metamaterial beams: stability and performance analysis**

**Alimohammadi, Hossein; Vassiljeva, Kristina**; HosseinNia, S. Hassan; **Ellervee, Peeter; Petlenkov, Eduard** Active and Passive Smart Structures and Integrated Systems XVIII 2024 / art. 129460J, 11 p. : ill <https://doi.org/10.1117/12.3024120> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Planning virtual organization in partner network**

**Kangilaski, Taivo** 2014 IEEE International Conference on Industrial Technology (ICIT) : February 26-March 1, 2014, Busan, Korea 2014 / p. 664-669 <https://doi.org/10.1109/ICIT.2014.6894910> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Plasmonic modification of CdTe thin films by gold nanoparticles : methods, difficulties and solutions**

**Maticiu, Natalia; Spalatu, Nicolae; Katerski, Atanas; Hiie, Jaan; Mikli, Valdek; Krunks, Malle**; Dolgov, Leonid; Sildos, Ilmo Microelectronic engineering 2014 / p. 173-178 : ill <https://doi.org/10.1016/j.mee.2014.07.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**PMU placement for fault line location using neural additive models—A global XAI technique**

Perl, Michael; Sun, Zhenglong; Machlev, Ram; **Belikov, Juri**; Levy, Kfir Yehuda; Levron, Yoash International journal of electrical power and energy systems 2024 / art. 109573, 10 p. : ill <https://doi.org/10.1016/j.ijepes.2023.109573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Porous cores in small thermoacoustic devices for building applications**

**Auriemma, Fabio**; Di Giulio, Elio; Napolitano, Marialuisa; Dragonetti, Raffaele Energies 2020 / art. 2941, 19 p. : ill <https://doi.org/10.3390/en13112941> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Post-COVID ventilation design : infection risk-based target ventilation rates and point source ventilation effectiveness**

**Kurnitski, Jarek; Kiil, Martin; Mikola, Alo; Vösa, Karl-Villem**; Aganovic, Amar; Schild, Peter G.; Seppänen, Olli Energy and buildings 2023 / art. 113386 <https://doi.org/10.1016/j.enbuild.2023.113386> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Power converter solutions for industrial PV applications — a review**

Verbytskyi, Ievgen; Lukianov, Mykola; Nassereddine, Kawsar; Pakhaliuk, Bohdan; **Husev, Oleksandr**; Strzelecki, Ryszard Energies 2022 / art. 3295 <https://doi.org/10.3390/en15093295> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Power optimization in a non-coordinated secondary infrastructure in a heterogeneous cognitive radio network**

**Ahmed, Tauseef; Le Moullec, Yannick** Elektronika ir elektrotechnika = Electronics and electrical engineering 2015 / p. 79-83 : ill <https://doi.org/10.5755/j01.eee.21.3.10526> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Precision and accuracy of pulse propagation velocity measurement in power cables**

**Kiitam, Ivar; Shafiq, Muhammad; Choudhary, Maninder; Parker, Martin; Palu, Ivo; Taklaja, Paul** Energies 2023 / art. 2702 <https://doi.org/10.3390/en16062702> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A predictive compact model of effective travel time considering the implementation of first-mile autonomous mini-buses in smart suburbs**

**Udal, Andres; Sell, Raivo; Kalda, Krister; Antov, Dago** Smart Cities 2024 / p. 3914-3935 <https://doi.org/10.3390/smartcities7060151> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Predictive control based on ranking multi-objective optimization approaches for a quasi-Z source inverter**

**Bakeer, Abualkasim Ahmed Ali;** Magdy, Gaber; **Chub, Andrii;** Vinnikov, Dmitri CSEE journal of power and energy systems 2021 / p. 1152-1160 : ill <https://doi.org/10.17775/CSEEJPES.2020.01310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Predictive control of multi-pump stations with variable-speed drives**

**Vodovozov, Valery;** Raud, Zoja IET electric power applications 2017 / p. 911-917 : ill <https://doi.org/10.1049/iet-epa.2016.0361> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Preface**

Polyakova, Tatiana; Prikhodko, Viacheslav; **Rüütman, Tiia;** Auer, Michael E. The International Society for Engineering Pedagogy : 1972-2022 2023 / p. ix-x <https://link.springer.com/book/10.1007/978-3-031-19890-8> [https://www.estee.ee/record=b5746643\\*est](https://www.estee.ee/record=b5746643*est) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **Preventing bird streamer outages using alternative tower configurations**

**Taklaja, Paul;** Hyvönen, Petri; Klüss, Joni; **Niitsoo, Jaan;** **Palu, Ivo** IEEE transactions on power delivery 2014 / p. 2402-2409 : ill <https://doi.org/10.1109/TPWRD.2014.2303084> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A primer on public safety communication in the context of terror attacks: the NATO SPS “COUNTER-TERROR” project**

**Alam, Muhammad Mahtab;** **Le Moullec, Yannick;** Ahmad, Rizwan; Magarini, Maurizio; Reggiani, Luca Advanced Technologies for Security Applications : Proceedings of the NATO Science for Peace and Security 'Cluster Workshop on Advanced Technologies', 17-18 September 2019, Leuven, Belgium 2020 / p. 19-34 [https://doi.org/10.1007/978-94-024-2021-0\\_3](https://doi.org/10.1007/978-94-024-2021-0_3) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **Processing sorted subsets in a multi-level reconfigurable computing system**

**Rjabov, Artjom;** Sklyarov, Valery; Skliarova, Iuliia; **Sudnitsõn, Aleksander** Elektronika ir elektrotehnika = Electronics and electrical engineering 2015 / p. 30-33 : ill <https://doi.org/10.5755/j01.eee.21.2.11509> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Progress in development of the resonant tunneling diodes as promising compact sources at the THz gap bottom**

**Udal, Andres;** **Jaanus, Martin;** Valušis, Gintaras; Kašalynas, Irmantas; Ikonic, Zoran; Indjin, Dragan THz for CBRN and explosives detection and diagnosis ; 2017 / p. 169-178 [https://doi.org/10.1007/978-94-024-1093-8\\_20](https://doi.org/10.1007/978-94-024-1093-8_20) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Propagation of bankruptcy risk over scale-free economic networks**

Andria, Joseph; di Tollo, Giacomo; **Kalda, Jaan** Entropy 2022 / art. 1713 <https://doi.org/10.3390/e24121713> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Pulse wave registration from radial artery using photoplethysmographic method**

**Pilt, Kristjan;** **Leier, Mairo;** **Silluta, Sandra;** **Kööts, Kristina;** **Meigas, Kalju;** **Viigimaa, Margus** Conference proceedings : 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : Milan, Italy, August 25-29 2015 2015 / p. 6425-6428 : ill <https://doi.org/10.1109/EMBC.2015.7319863> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **PVD grown SnS thin films onto different substrate surfaces**

**Revathi, Naidu;** **Bereznev, Sergei;** **Ilijina, Julia;** **Safonova, Maria;** **Mellikov, Enn;** **Volobujeva, Olga** Journal of materials science : materials in electronics 2013 / p. 4739-4744 : ill <https://doi.org/10.1007/s10854-013-1468-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **PWM for single phase 3L Z/qZ-Source inverter with balanced power losses**

Roncero-Clemente, Carlos; **Husev, Oleksandr;** **Jalakas, Tanel;** Romero-Cadaval, Enrique; **Zakis, Janis;** Minambres-Marcos, Victor Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 71-76 : ill <https://doi.org/10.5755/j01.eee.20.6.7270> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Q-Learning based joint energy-spectral efficiency optimization in multi-hop device-to-device communication**

**Khan, Muhidul Islam;** Reggiani, Luca; **Alam, Muhammad Mahtab;** **Le Moullec, Yannick;** **Sharma, Navuday;** Yaacoub, Elias; Magarini, Maurizio Sensors 2020 / art. 6692, 23 p.: ill <https://doi.org/10.3390/s20226692> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A QoS optimization approach in cognitive body area networks for healthcare applications**

**Ahmed, Tauseef;** **Le Moullec, Yannick** Sensors 2017 / art. 780, p. 1-23 : ill <https://doi.org/10.3390/s17040780> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **qZS inverter as synchronverter in small-scale micro-grid**

**Zakis, Janis;** **Makovenko, Elena;** Zeng, Hao; **Husev, Oleksandr;** **Kütt, Lauri** Elektronika ir elektrotehnika = Electronics and electrical engineering 2018 / p. 58-62 : ill <https://doi.org/10.5755/j01.eie.24.2.20636> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A qualitative control approach to reduce energy costs of hybrid energy systems : utilizing energy price and weather data**  
Taebnia, Mehdi; Heikkilä, Marko; **Kurnitski, Jarek** Energies 2020 / art. 1401, 17 p. : ill <https://doi.org/10.3390/en13061401> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Quantification of economic benefits of renovation of apartment buildings as a basis for cost optimal 2030 energy efficiency strategies**

**Pikas, Ergo; Kurnitski, Jarek; Liias, Roode; Thalfeldt, Martin** Energy and buildings 2015 / p. 151-160 : ill <https://doi.org/10.1016/j.enbuild.2014.10.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Quantification of environmental and economic impacts for main categories of building labeling schemes**

**Seinre, Erkki; Kurnitski, Jarek; Voll, Hendrik** Energy and buildings 2014 / p. 145-158 : ill <https://doi.org/10.1016/j.enbuild.2013.11.048> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Quasi single-stage three-phase filterless converter for EV charging applications**

**Blinov, Andrei; Zinchenko, Denys; Rabkowski, Jacek; Wrona, Grzegorz; Vinnikov, Dmitri** IEEE Open Journal of Power Electronics 2022 / p. 51-60 : ill <https://doi.org/10.1109/OJPEL.2021.3134460> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Quasi-Z source T-type power converter for PV based commercial and industrial nanogrids with active functions strategy**

Barrero-Gonzalez, Fermin; Roncero-Clemente, Carlos; Milanés-Montero, Maria Isabel; Gonzalez-Romera, Eva; Romero-Cadaval, Enrique; **Husev, Oleksandr** Electronics 2020 / art. 1233, 18 p. : ill <https://doi.org/10.3390/electronics9081233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Quasi-Z-source half-bridge DC-DC converter for photovoltaic applications**

**Vinnikov, Dmitri; Chub, Andrii; Husev, Oleksandr; Zakis, Janis** 2015 IEEE International Conference on Industrial Technology (ICIT 2015) : Seville, Spain, 17-19 March 2015 2015 / p. 2935-2940 : ill <https://doi.org/10.1109/ICIT.2015.7125531> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Radiator and floor heating operative temperature and temperature variation corrections for EN 15316-2 heat emission standard**

**Maivel, Mikk; Kurnitski, Jarek** Energy and buildings 2015 / p. 204-213 : ill <https://doi.org/10.1016/j.enbuild.2015.04.021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Radiofrequency electromagnetic fields from mobile devices used for learning and working**

**Koppel, Tarmo; Ahonen, Mikko** Elektronika ir elektrotechnika = Electronics and electrical engineering 2013 / p. 65-70 : ill <https://doi.org/10.5755/j01.eee.19.6.4565> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Rate-latency optimization for NB-IoT with adaptive resource unit configuration in uplink transmission**

Elgarhy, Osama Mohamed Mostafa; **Reggiani, Luca; Malik, Hassan; Alam, Muhammad Mahtab; Imran, Muhammad Ali** IEEE Systems Journal 2021 / p. 265 - 276 <https://doi.org/10.1109/JSYST.2020.2991073> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Rational design of highly efficient flexible and transparent p-type composite electrode based on single-walled carbon nanotubes**

Rajanna, Pramod M.; Meddeb, Hosni; **Bereznev, Sergei; Volobujeva, Olga; Danilson, Mati** Nano energy 2020 / art. 104183, 9 p. : ill <https://doi.org/10.1016/j.nanoen.2019.104183> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Reactive power injection capability of buck-boost inverter with unfolding circuit**

Roncero-Clemente, Carlos; **Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri; Blaabjerg, Frede** IEEE transactions on power electronics 2022 / p. 11876-11886 <https://doi.org/10.1109/TPEL.2022.3179784> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Realisation of energy performance targets of an old apartment building renovated to nZEB**

**Hamburg, Anti; Kuusk, Kalle; Mikola, Alo; Kalamees, Targo** Energy 2020 / art. 116874, 10 p. : ill <https://doi.org/10.1016/j.energy.2019.116874> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Realization and evaluation of the device for measuring the impedance of human body for detecting the respiratory and heart rate**

**Metshein, Margus; Parve, Toomas; Annus, Paul; Rist, Marek; Min, Mart** Elektronika ir elektrotechnika = Electronics and electrical engineering 2017 / p. 36-42 : ill <https://doi.org/10.5755/j01.eie.23.3.18330> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Realization of nonlinear input-output equations in controller canonical form**

**Kaldmäe, Arvo; Kotta, Ülle** Kybernetika 2018 / p. 736-747 <https://doi.org/10.14736/kyb-2018-4-0736> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Realization of nonlinear MIMO system on homogeneous time scales**

**Belikov, Juri; Kotta, Ülle; Tönso, Maris** European journal of control 2015 / p. 48-54 <https://doi.org/10.1016/j.ejcon.2015.01.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Realization of time-delay systems**

**Kaldmäe, Arvo; Kotta, Ülle** Automatica 2018 / p. 317-320 <https://doi.org/10.1016/j.automatica.2018.01.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Realizations in feedforward forms of nonlinear input-output equations with time-delays**

**Kaldmäe, Arvo; Kawano, Yu; Kotta, Ülle** International journal of robust and nonlinear control 2020 / p. 7560-7573 <https://doi.org/10.1002/rnc.5194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Real-life experiences in using open source for autonomy applications**

**Malayjerdi, Mohsen; Sell, Raivo; Malayjerdi, Ehsan; Akbas, Mustafa Ilhan; Razdan, Rahul** Engineering Proceedings 2024 / art. 19 <https://doi.org/10.3390/engproc2024079019> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Real-time localization and visualization of a sound source for virtual reality application**

**Köse, Ahmet; Tepljakov, Aleksei; Astapov, Sergei** 2017 25th International Conference on Software, Telecommunications and Computer Networks (SoftCOM) : Split, Croatia, September 21-23, 2017 2017 / p 219-224 : ill <https://doi.org/10.23919/SOFTCOM.2017.8115577> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Real-time optimal power management for a hybrid energy storage system with battery thermal consideration and DC microgrid current estimation capability**

**Farrokhi, Ehsan; Ghoreishy, Hoda; Ahmadihangar, Roya** Electrical Engineering 2024 / p. 4705 - 4718 <https://doi.org/10.1007/s00202-024-02243-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Real-time regulation of beam-based feedback : implementing an FPGA solution for a continuous wave linear accelerator**

**Maalberg, Andrei; Kuntzsch, Michael; Petlenkov, Eduard** Sensors 2022 / art. 6236, 22 p. : ill <https://doi.org/10.3390/s22166236> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Recent advances in crest factor minimization of multisine**

**Ojarand, Jaan; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 59-62 : ill <https://doi.org/10.5755/j01.eie.23.2.18001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Recent trends in additive manufacturing and topology optimization of reluctance machines**

**Hussain, Shahid; Kallaste, Ants; Vaimann, Toomas** Energies 2023 / art. 3840 <https://doi.org/10.3390/en16093840> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Redox reactivity at silver microparticle-glassy carbon contacts under a coating of polymer of intrinsic microporosity (PIM)**

**He, Daping; Rauwel, Erwan; Malpass-Evans, Richard; Carta, Mariolino** Journal of solid state electrochemistry 2017 / p. 2141-2146 : ill <https://doi.org/10.1007/s10008-017-3534-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reduced basis finite element modeling of electrical machines with multiconductor windings**

**Lehikoinen, Antti; Arkkio, Antero; Belahcen, Anouar** IEEE transactions on industry applications 2017 / p. 4252-4259 : ill <https://doi.org/10.1109/TIA.2017.2696509> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reducible dictionaries for single image super-resolution based on patch matching and mean shifting**

**Rasti, Pejman; Nasrollahi, Kamal; Orlova, Olga; Tamberg, Gert; Moeslund, Thomas B.; Anbarjafari, Gholamreza** Journal of electronic imaging 2017 / p. 023024-1 - 023024-8 : ill <https://doi.org/10.1117/1.JEI.26.2.023024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Regression models and fuzzy logic prediction of TBM penetration rate**

**Vu, Trieu Minh; Katušin, Dmitri; Antonov, Maksim; Veinthal, Renno** Open engineering 2017 / p. 60-68 : ill <https://doi.org/10.1515/eng-2017-0012> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Regulation of the linear accelerator ELBE exploiting continuous wave mode of a superconducting RF cavity**

**Maalberg, Andrei; Kuntzsch, Michael; Petlenkov, Eduard** 2022 American Control Conference (ACC) : Atlanta, GA, USA, 8-10 June 2022 : proceedings 2022 / p. 5346-5353 : ill <https://doi.org/10.23919/ACC53348.2022.9867172> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Reinforcement learning model-based and model-free paradigms for optimal control problems in power systems: comprehensive review and future directions**

**Ginzburg-Ganz, Elinor; Segev, Itay; Balabanov, Alexander; Segev, Elior; Kaully Naveh, Sivan; Machlev, Ram; Belikov, Juri; Katzir, Liran; Keren, Sarah; Levron, Yoash** Energies 2024 / art. 5307, 54 p. : ill <https://doi.org/10.3390/en17215307> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



### **A reinforcement learning routing protocol for UAV aided public safety networks**

Minhas, Hassan Ishtiaq; Ahmad, Rizwan; Ahmed, Waqas; Waheed, Maham; **Alam, Muhammad Mahtab**; Gul, Sufi Tabassum  
Sensors 2021 / Art. nr. 4121 <https://doi.org/10.3390/s21124121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reinforcement Learning-based Energy Management Strategy for Flexible Hybrid ac/dc Microgrid**

Gutiérrez-Escalona, Javier; Roncero-Clemente, Carlos; **Husev, Oleksandr; Matiushkin, Oleksandr**; Barrero-González, Fermín;  
González-Romera, Eva IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2025 / 6 p  
<https://doi.org/10.1109/IECON55916.2024.10905501> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Rejuvenation of NBTI-impacted processors using evolutionary generation of assembler programs**

Pellerey, Francesco; **Jenihhin, Maksim**; Squillero, Giovanni; **Raik, Jaan**; Sonza Reorda, Matteo; **Tihomirov, Valentin; Ubar, Raimund-Johannes** 2016 IEEE 25th Asian Test Symposium : 21-24 November 2016, Hiroshima, Japan 2016 / p. 304-309 : ill  
<https://doi.org/10.1109/ATS.2016.57> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Relation between self-organization and wear mechanisms of diamond films**

Podgurski, Vitali; Bogatov, Andrei; Yashin, Maxim Entropy 2018 / art. 279, 16 p. : ill <https://doi.org/10.3390/e20040279> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Relationship analysis and optimisation of space layout to improve the energy performance of office buildings**

Du, Tiantian; Turrin, Michela; Jansen, Sabine; Dobbelsesteen, Andy van den; **De Luca, Francesco** Energies 2022 / art. 1268  
<https://doi.org/10.3390/en15041268> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Relative complex permittivity and its dependence on frequency**

Giannoukos, Georgios; Min, Mart; Rang, Toomas World journal of engineering 2017 / p. 532-537 : ill <https://doi.org/10.1108/WJE-01-2017-0007> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Relaxing realizability conditions for discrete-time nonlinear systems**

Kotta, Ülle; Schlahter, Kurt; **Tõnso, Maris** Automatica 2015 / p. 67-71 <https://doi.org/10.1016/j.automatica.2015.05.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reliability analysis of battery energy storage system for various stationary applications**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Shen, Yanfeng**; Sangwongwanich, Ariya Journal of energy storage 2022 / art. 104217 <https://doi.org/10.1016/j.est.2022.104217> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reliability evaluation of an impedance-source PV microconverter**

Shen, Yanfeng; **Liivik, Elizaveta**; Blaabjerg, Frede; **Vinnikov, Dmitri**; Wang, Huai; **Chub, Andrii** 2018 IEEE Applied Power Electronics Conference and Exposition (APEC 2018), San Antonio, Texas, USA, 4-8 March 2018 2018 / p. 1104–1108 : ill  
<https://doi.org/10.1109/APEC.2018.8341154> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Reliability evaluation of isolated buck-boost DC-DC series resonant converter**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Shen, Yanfeng** IEEE open journal of power electronics 2022 / p. 131-141  
<https://doi.org/10.1109/OJPEL.2022.3157200> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reliability study of input side capacitors in impedance-source PV microconverters**

**Liivik, Elizaveta; Vinnikov, Dmitri; Chub, Andrii**; Shen, Yanfeng IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5026–5032 : ill <https://doi.org/10.1109/IECON.2019.8927173> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Reliability-critical computation offloading in UAV swarms**

**Rahbari, Dadmehr; Ahmed, Faisal; Jenihhin, Maksim; Alam, Muhammad Mahtab; Le Moullec, Yannick** IEEE Systems Journal 2024 / p. 1871-1882 <https://doi.org/10.1109/JSYST.2024.3432449> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Renovation alternatives to improve energy performance of historic rural houses in the Baltic Sea region**

**Alev, Üllar**; Eskola, Lari; **Arumägi, Endrik; Kalamees, Targo** Energy and buildings 2014 / p. 58-66 : ill  
<https://doi.org/10.1016/j.enbuild.2014.03.049> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Renovation results of Finnish single-family renovation subsidies : oil boiler replacement with heat pumps**

Sankelo, Paula; Ahmed, Kaiser; **Mikola, Alo; Kurnitski, Jarek** Energies 2022 / art. 7620 <https://doi.org/10.3390/en15207620> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Resiliency oriented control of a smart microgrid with photovoltaic modules**

**Mishra, Sambeet; Peterson, Kristjan; Hilimon, Tauno; Šuvalova, Jelena; Wen, Fushuan; Palu, Ivo** Global Energy Interconnection 2021 / p. 441-452 <https://doi.org/10.1016/j.gloi.2021.11.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Response surface method for optimization of synchronous reluctance motor rotor**

Orlova, Svetlana; Auzins, Janis; Pugachov, Vladislav; **Rassõlkin, Anton; Vaimann, Toomas** Machines 2022 / art. 897  
<https://doi.org/10.3390/machines10100897> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review of aging models for electrical insulation in power cables**

**Choudhary, Maninder; Shafiq, Muhammad; Kiitam, Ivar; Hussain, Amjad; Palu, Ivo; Taklaja, Paul** Energies 2022 / Art. nr. 3408  
<https://doi.org/10.3390/en15093408> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Review of electric vehicle testing procedures for digital twin development : a comprehensive analysis**

**Rjabtšikov, Viktor; Rassõlkin, Anton; Kudelina, Karolina; Kallaste, Ants; Vaimann, Toomas** Energies 2023 / art. 6952  
<https://doi.org/10.3390/en16196952> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Review of energy challenges and horizons of hydrogen city buses**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** Energies 2022 / art. 6945 <https://doi.org/10.3390/en15196945> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review of e-voting : the past, present and future**

Gibson, J. Paul; **Krimmer, Robert Johannes**; Teague, Vanessa; Pomares, Julia Annals of telecommunications 2016 / p. 279-286  
<https://doi.org/10.1007/s12243-016-0525-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review of galvanically isolated impedance-source DC-DC converters**

**Chub, Andrii; Vinnikov, Dmitri; Blaabjerg, Frede; Peng, Fang Zheng** IEEE transactions on power electronics 2016 / p. 2808-2828  
: ill <https://doi.org/10.1109/TPEL.2015.2453128> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review of hybrid converter topologies**

**Afshari, Hossein; Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri** Energies 2022 / art. 9341  
<https://doi.org/10.3390/en15249341> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Review of isolated matrix inverters : topologies, modulation methods and applications**

**Korkh, Oleksandr; Blinov, Andrei; Vinnikov, Dmitri; Chub, Andrii** Energies 2020 / art. 2394, 30 p. : ill  
<https://doi.org/10.3390/en13092394> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review of non-residential building renovation and improvement of energy efficiency: office buildings in Finland, Sweden, Norway, Denmark, and Germany**

**Kiviste, Mihkel; Musakka, Sami; Ruus, Aime; Vinha, Juha** Energies 2023 / art. 4220, 26 p <https://doi.org/10.3390/en16104220> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review of optimal control methods for energy storage systems - energy trading, energy balancing and electric vehicles**

Machlev, Ram; Zargari, Noa; Chowdhury, N; **Belikov, Juri**; Levron, Yoash Journal of energy storage 2020 / art. 101787, 16 p  
<https://doi.org/10.1016/j.est.2020.101787> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Review of state-of-the-art microwave filter tuning techniques and liplementation of a novel tuning algorithm using expert-based hybrid learning**

**Sekhri, Even; Kapoor, Rajiv; Tamre, Mart** Wireless personal communications 2024 / p. 625–681 <https://doi.org/10.1007/s11277-024-10894-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review on additive manufacturing possibilities for electrical machines**

**Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton** Energies 2021 / art. 1940  
<https://doi.org/10.3390/en14071940> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Review on Braking Energy Management in Electric Vehicles**

**Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** Energies 2021 / art. 4477 <https://doi.org/10.3390/en14154477> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review on energy piles design, sizing and modelling**

**Fadejev, Jevgeni; Simson, Raimo; Kurnitski, Jarek; Haghighat, Fariborz** Energy 2017 / p. 390-407 : ill  
<https://doi.org/10.1016/j.energy.2017.01.097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A Review on graphene-based electrospun conductive nanofibers, supercapacitors, Anodes, and cathodes for lithium-ion batteries**

**Javed, Kashif; Oolo, Marco; Savest, Natalja; Krumme, Andres** Critical Reviews in Solid State and Materials Sciences 2019 / p. 427-443 : ill <https://doi.org/10.1080/10408436.2018.1492367> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review on realtime simulation and analysis methods of microgrids**

**Ahmadihangar, Roya; Rosin, Argo; Nabavi Niaki, Ali; Palu, Ivo; Korötko, Tarmo** International transactions on electrical energy systems 2019 / art. e12106, 16 p. : ill <https://doi.org/10.1002/2050-7038.12106> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Ring-oscillator with multiple transconductors for linear analog-to-digital conversion**

Alvero-Gonzalez, Leidy Mabel; Medina, Victor; **Kampus, Vahur**; Paton, Susana; Hernandez, Luis; Gutierrez, Eric Electronics (Switzerland) 2021 / art. 1408 <https://doi.org/10.3390/electronics10121408> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Robust design optimization of electrical machines and devices : editorial**

Orosz, Tamas; Panek, David; **Rassölkin, Anton**; Kuczmann, Miklos Electronics 2022 / art. 1427 <https://doi.org/10.3390/electronics11091427> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Robust D-stability analysis of fractional-order controllers**

**Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard** 2023 American Control Conference, ACC 2023, San Diego, 31 May- 2 June 2023 : proceedings 2023 / p. 3871-3876 : ill <https://doi.org/10.23919/ACC55779.2023.10156257> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Robust FOPI and FOPID controller design for FFOPDT plants in embedded control applications using frequency-domain analysis**

**Tepljakov, Aleksei; Petlenkov, Eduard; Belikov, Juri** 2015 American Control Conference : Hilton Palmer House, Chicago, IL, July 1-3, 2015 2015 / p. 3868-3873 : ill <https://doi.org/10.1109/ACC.2015.7171933> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Robust fractional order singular Kalman filter**

**Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard** International journal of robust and nonlinear control 2024 / p. 602-627 : ill <https://doi.org/10.1002/rnc.6990> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Robust pole assignment via Routh rays of polynomials**

**Artemtšuk, Igor; Nurgas, Ülo; Belikov, Juri** 2016 American Control Conference (ACC) : July 6-8, Boston, MA, USA 2016 / p. 7031-7036 : ill <https://doi.org/10.1109/ACC.2016.7526781> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Robust stabilization criteria of a general form of fractional-order controllers for interval fractional-order plants with complex uncertain parameters**

**Ghorbani, Majid** ISA transactions 2022 / p. 140-151 : ill <https://doi.org/10.1016/j.isatra.2022.02.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Robust stabilization of interval fractional-order plants with an interval time delay by fractional-order proportional integral derivative controllers**

**Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard** IET Control Theory and Applications 2024 / p. 614-625 <https://doi.org/10.1049/cth2.12594> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Safety system assessment case study of automated vehicle shuttle**

**Pikner, Heiko; Sell, Raivo; Majak, Jüri; Karjust, Kristo** Electronics (Switzerland) 2022 / art. 1162 <https://doi.org/10.3390/electronics11071162> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **A scalable key and trust management solution for IoT sensors using SDN and blockchain technology**

Hameed, Sufian; Shah, Syed Attique; Saeed, Qazi Sarmad; Siddiqui, Shahbaz; Ali, Ihsan; **Vedešin, Anton; Draheim, Dirk** IEEE sensors journal 2021 / p. 8716-8733 <https://doi.org/10.1109/JSEN.2021.3052009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Seamless 5g multi-hop connectivity architecture and trials for maritime applications**

Lindenbergs, Arturs; Muehleisen, Maciej; Payaro, Miquel; **Körbe Kaare, Kati**; Zaglauer, Helmut W.; Scholliers, Johan; Sadam, Arvi; **Kuhi, Kristjan**; Nykanen, Lasse Sensors 2023 / art. 4203 <https://doi.org/10.3390/s23094203> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Securing class initialization in Java-like languages**

Rafnsson, Willard; **Nakata, Keiko**; Sabelfeld, Andrei IEEE transactions on dependable and secure computing 2013 / p. 1-13 <https://doi.org/10.1109/TDSC.2012.73> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Securing self-aware cyber-physical systems using digital twins**

**Meeran, Mohammad Tariq** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 5 p. : ill <https://doi.org/10.1109/BEC61458.2024.10737954> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Security and privacy issues in cloud computing : [brief descriptions]**

Abbas, Haider; **Maennel, Olaf Manuel**; Assar, Said Annals of telecommunications 2017 / p. 233-235 <https://doi.org/10.1007/s12243-017-0578-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A security-aware and LUT-based CAD flow for the physical synthesis of hASICs**

**Abideen, Zain UI; Perez, Tiago Diadami; Martins, Mayler; Pagliarini, Samuel Nascimento** IEEE transactions on computer-aided design of integrated circuits and systems 2023 / p. 3157-3170 : ill <https://doi.org/10.1109/TCAD.2023.3244879> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Segregation of iron losses from rotational field measurements and application to electrical machine**

**Belahcen, Anouar; Rasilo, Paavo; Arkkio, Antero** IEEE transactions on magnetics 2014 / p. 893-896 : ill <https://doi.org/10.1109/TMAG.2013.2284606> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Self-learning model predictive control for dynamic activation of structural thermal mass in residential buildings**

**Wolisz, Henryk; Kull, Tuule Mall; Müller, Dirk; Kurnitski, Jarek** Energy and buildings 2020 / art. 109542, 21 p. : ill <https://doi.org/10.1016/j.enbuild.2019.109542> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Semitransparent Sb2S3 thin film solar cells by ultrasonic spray pyrolysis for use in solar windows**

**Eensalu, Jako Siim; Katerski, Atanas; Kärber, Erki; Weinhardt, Lothar; Blum, Monika; Heske, Clemens; Oja Acik, Ilona; Krunk, Malle** Beilstein journal of nanotechnology 2019 / p. 2396-2409 <https://doi.org/10.3762/bjnano.10.230> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sensitivity analysis for multi-objective optimization of switched reluctance motors**

**Andriushchenko, Ekaterina; Kallaste, Ants; Mohammadi, M. Hossain; Lowther, David Alister; Heidari, Hamidreza** Machines 2022 / art. 559, 16 p. : ill <https://doi.org/10.3390/machines10070559> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sensor-location-specific joint acquisition of peripheral artery bioimpedance and photoplethysmogram for wearable applications**

**Metshein, Margus; Abdullayev, Anar; Gautier, Antoine; Larras, Benoit; Frappe, Antoine; Cardiff, Barry; Annus, Paul; Land, Raul; Märten, Olev** Sensors 2023 / art. 7111 <https://doi.org/10.3390/s23167111> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Series buck-boost partial power converter based on the push-pull converter**

**Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** IECON 2022 : 48th Annual Conference of the IEEE Industrial Electronics Society : 17-20 Oct. 2022 2022 / code. 184962 <https://doi.org/10.1109/IECON49645.2022.9968574> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Series resonant DC-DC converter with an AC-switch-based full-bridge boost rectifier**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri** Annual IEEE Conference on Applied Power Electronics Conference and Exposition (APEC) 2021 / p. 1985-1990 <https://doi.org/10.1109/APEC42165.2021.9487113> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **SEU study of wideband heterostructure diode for particle detection**

**Patankar, Udayan Sunil; Koel, Ants** 2021 IEEE International Conference on Consumer Electronics (ICCE) 2021 / 4 p. : ill <https://doi.org/10.1109/ICCE50685.2021.9427613> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Sheppard-Taylor isolated high boost DC-DC converter**

**Chub, Andrii; Siwakoti, Yam P.; Vinnikov, Dmitri; Blaabjerg, Frede** Thirty Second Annual IEEE Applied Power Electronics Conference and Exposition (APEC) 2017 : March 26-30, 2017, Tampa, Florida 2017 / p. 1695-1699 : ill <https://doi.org/10.1109/APEC.2017.7930927> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Short-term wind energy forecasting using deep learning-based predictive analytics**

**Shabbir, Noman; Kütt, Lauri; Jawad, Muhammad; Husev, Oleksandr** CMC-Computers, Materials & Continua 2022 / p. 1017-1033 <https://doi.org/10.32604/cmc.2022.024576> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Side-channel attacks on triple modular redundancy schemes**

**Almeida, Felipe; Aksoy, Levent; Raik, Jaan; Pagliarini, Samuel Nascimento** 2021 IEEE 30th Asian Test Symposium ATS 2021 : proceedings 2021 / p. 79-84 : ill <https://doi.org/10.1109/ATS52891.2021.00026> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Side-channel Trojan insertion - a practical foundry-side attack via ECO**

**Perez, Tiago Diadami; Imran, Malik; Vaz, Pablo; Pagliarini, Samuel Nascimento** 2021 IEEE International Symposium on Circuits and Systems (ISCAS), Daegu, Korea, May 22-28, 2021 : proceedings 2021 / 5 p. : ill <https://doi.org/10.1109/ISCAS51556.2021.9401481> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Signal spectrum-based machine learning approach for fault prediction and maintenance of electrical machines**

**Raja, Hadi Ashraf; Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Khang, Huynh Van** Energies 2022 / art. 9507 <https://doi.org/10.3390/en15249507> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)



**Simple and efficient excitation signals for fast impedance spectroscopy**

**Ojarand, Jaan; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2013 / p. 49-52 : ill <https://doi.org/10.5755/j01.eee.19.2.3468> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Simulated influence of indoor climate and ventilation on schoolwork performance in Estonian manor schools**

**Kalamees, Targo; Väli, Alan; Kallavus, Urve; Kurik, Lembit; Alev, Üllar** International journal of ventilation 2015 / p. 153-164 : ill <https://doi.org/10.1080/14733315.2015.11684077> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Simulation of real time electricity price based energy management system [Online resource]**

**Lebedev, Denis; Rosin, Argo; Kütt, Lauri** Proceedings of the IECON2016 - 42nd Annual Conference of the Industrial Electronics Society : Florence (Italy), October 24-27, 2016 2016 / p. 2106-2110 : ill <https://doi.org/10.1109/IECON.2016.7793991> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Simulation study of the grid-connected single-phase impedance-sourced NPC inverter with different control methods**

Roncero-Clemente, Carlos; **Husev, Oleksandr**; Romero-Cadaval, Enrique; **Zakis, Janis; Vinnikov, Dmitri**; Milanes-Montero, Maria Isabel 2015 IEEE International Conference on Industrial Technology (ICIT 2015) : Seville, Spain, 17-19 March 2015 2015 / p. 2949-2954 : ill <https://doi.org/10.1109/ICIT.2015.7125533> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Simulations of benzene and hydrogen-sulfide gas detector based on single-walled carbon nanotube over intrinsic 4H-SiC substrate**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas; Ziko, Mehadi Hasan** Micromachines 2020 / art. 453, 13 p. : ill <https://doi.org/10.3390/mi11050453> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Single phase three-level neutral-point-clamped quasi-Z-source inverter**

**Husev, Oleksandr**; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Stepenko, Serhii IET power electronics 2015 / p. 1-10 : ill <https://doi.org/10.1049/iet-pel.2013.0904> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Single-experiment observability decomposition of discrete-time analytic systems**

Kawano, Yu; **Kotta, Ülle** Systems & control letters 2016 / p. 193-199 <https://doi.org/10.1016/j.sysconle.2016.09.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A single-phase reduced component count asymmetrical multilevel inverter topology**

**Chub, Andrii**; Blaabjerg, Frede IEEE journal of emerging and selected topics in power electronics 2021 / p. 6780-6790 : ill <https://doi.org/10.1109/JESTPE.2021.3066396> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Single-phase string solar qZS-based inverter: example of multi-objective optimization design**

**Husev, Oleksandr; Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Chub, Andrii**; Romero-Cadaval, Enrique IEEE transactions on industry applications 2021 / p. 3120-3130 : ill <https://doi.org/10.1109/TIA.2020.3034292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Single-stage buck-boost inverters: a state-of-the-art survey**

Azizi, Mohammadreza; **Husev, Oleksandr; Vinnikov, Dmitri** Energies 2022 / art. 1622 <https://doi.org/10.3390/en15051622> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Single-stage single-phase current source inverter for standalone applications**

Sohail, Umer; **Blinov, Andrei**; Østrem, Trond; Hoff, Bjarte; **Carvalho, Edivan Laercio** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 6 p <https://doi.org/10.1109/IECON55916.2024.10905718> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Single-switch galvanically isolated step-up DC-DC converter for residential photovoltaic applications [Online resource]**

**Vinnikov, Dmitri; Chub, Andrii; Liivik, Elizaveta** Proceedings of the IECON2016 - 42nd Annual Conference of the Industrial Electronics Society : Florence (Italy), October 24-27, 2016 2016 / p. 6578-6582 : ill <https://doi.org/10.1109/IECON.2016.7793776> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Sliding mean value subtraction-based DC drift correction of B-H curve for 3D-printed magnetic materials**

**Asad, Bilal; Tiismus, Hans; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Ghahfarokhi, Payam Shams** Energies 2021 / art. 284, 10 p <https://doi.org/10.3390/en14020284> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sliding mode based control of dual boost inverter for grid connection**

Lopez-Caiza, Diana; Flores-Bahamonde, Freddy; Kouro, Samir; Santana, Victor; Müller, Nicolas; **Chub, Andrii** Energies 2019 / art. 4241, 15 p.: ill <https://doi.org/10.3390/en12224241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Small low-temperature district heating network development prospects**

**Volkova, Anna; Krupenski, Igor; Pieper, Henrik; Ledvanov, Aleksandr; Latõšov, Eduard; Siirde, Andres** Energy 2019 / p. 714-722 <https://doi.org/10.1016/j.energy.2019.04.083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Smart nature-based solutions for stormwater management in urban areas—an analysis of pilot cases**

**Kõiv, Kerta; Annus, Ivar; Kändler, Nils; Truu, Murel; Kaur, Katrin; Suits, Kristjan** Engineering Proceedings 2024 / art. 18 <https://doi.org/10.3390/engproc2024069018> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Smart photoplethysmographic sensor for pulse wave registration at different vascular depths**

**Leier, Mairo; Pilt, Kristjan; Karai, Deniss; Jervan, Gert** Conference proceedings : 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : Milan, Italy, August 25-29 2015 2015 / p. 1849-1852 : ill <https://doi.org/10.1109/EMBC.2015.7318741> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Snubberless boost full-bridge converters: analysis of soft switching performance and limitations**

**Blinov, Andrei; Kosenko, Roman; Chub, Andrii; Vinnikov, Dmitri** International journal of circuit theory and applications 2019 / p. 1–25 : ill <https://doi.org/10.1002/cta.2626> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **SO2 emissions from oil shale oxyfuel combustion in a 60 kWth circulating fluidized bed**

**Baqain, Mais Hanna Suleiman; Nešumajev, Dmitri; Konist, Alar** Energies 2024 / art. 4567 <https://doi.org/10.3390/en17184567> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Soft switching bidirectional step-up/down partial power converter with reduced components stress**

**Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** IEEE transactions on power electronics 2023 / p. 14166-14177 <https://doi.org/10.1109/TPEL.2023.3289061> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Soft-switching modulation method for full-bridge DC-AC HF-link inverter**

**Blinov, Andrei; Korkh, Oleksandr; Vinnikov, Dmitri; Galkin, Ilja; Norrga, Staffan** IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4417-4422 : ill <https://doi.org/10.1109/IECON.2019.8927186> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Solar optiverter - a novel hybrid approach to the photovoltaic module level power electronics**

**Vinnikov, Dmitri; Chub, Andrii; Kosenko, Roman; Korkh, Oleksandr** IEEE transactions on industrial electronics 2019 / p. 3869-3880 <https://doi.org/10.1109/TIE.2018.2850036> [Tehnikaülikooli seade muudab päikesepaneelid märgatavalt tootlikumaks](#) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A sophisticated modeling approach for photovoltaic systems in load frequency control**

**Bakeer, Abualkasim Ahmed Ali; Magdy, Gaber; Chub, Andrii; Bevrani, Hassan** International journal of electrical power and energy systems 2022 / art. 107330, 12 p. : ill <https://doi.org/10.1016/j.ijepes.2021.107330> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Spark erosion in a metal spheres bed : experimental study of the discharge stability and energy efficiency**

**Kornev, Iakov; Saprykin, Filipp; Lobanova, Galina; Ushakov, Vasily; Preis, Sergei** Journal of electrostatics 2018 / p. 111-118 : ill <https://doi.org/10.1016/j.elstat.2018.10.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A sparse minimal-order dynamic model of power networks based on DQ0 signals**

**Belikov, Juri; Levron, Yoash** IEEE transactions on power systems 2018 / p. 1059-1067 : ill <https://doi.org/10.1109/TPWRS.2017.2702746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sparse reconstruction method for separating cardiac and respiratory components from electrical bioimpedance measurements**

**Butsenko, Maksim; Märten, Olev; Krivošei, Andrei; Le Moullec, Yannick** Elektronika ir elektrotehnika = Electronics and electrical engineering 2018 / p. 57-61 : ill <https://doi.org/10.5755/j01.eie.24.5.21844> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Special issue on recent advances in the design and applications of fractional-order circuits and systems : [brief introduction]**

**Psychalinos, Costas; Elwakil, Ahmed S.; Allagui, Anis; Tepļakov, Aleksei** International journal of electronics and communications 2017 / p. 132-135 <https://doi.org/10.1016/j.aeeu.2017.07.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Special session : approximation and fault resiliency of DNN accelerators**

**Ahmadilivani, Mohammad Hasan; Barbareschi, Mario; Barone, Salvatore; Bosio, Alberto; Daneshtalab, Masoud; Torca, Salvatore Della; Gavarini, Gabriele; Jenihhin, Maksim; Raik, Jaan; Taheri, Mahdi** 2023 IEEE 41st VLSI Test Symposium (VTS) : proceedings 2023 / 10 p. : ill <https://doi.org/10.1109/VTS56346.2023.10140043> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Special session : AutoSoC - a suite of open-source automotive SoC benchmarks**

Silva, Felipe Augusto da; **Bagbaba, Ahmet Cagri**; Ruospo, Annachiara; **Jenihhin, Maksim** 2020 IEEE 38th VLSI TEST SYMPOSIUM (VTS) - VTS 2020 : proceedings 2020 / 9 p. : ill <https://doi.org/10.1109/VTS48691.2020.9107599> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Special session: reliability assessment recipes for DNN accelerators**

**Ahmadilivani, Mohammad Hasan**; Bosio, Alberto; Deveautour, Bastien; Dos Santos, Fernando Fernandes; Guerrero-Balaguera, Juan-David; **Jenihhin, Maksim**; Kritikakou, Angeliki; Sierra, Robert Limas; **Raik, Jaan**; **Taheri, Mahdi** 42nd IEEE VLSI Test Symposium, VTS 2024 2024 / 11 p. : ill <https://doi.org/10.1109/VTS60656.2024.10538707> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Spectral properties of incoherent terahertz torch based on parabolic Ga(As,Bi)/AlGaAs quantum wells**

Karaliunas, Mindaugas; Pagalys, Justas; Jakštas, Vytautas; Norkus, Ričardas; Urbanowicz, Andrzej; Devenson, Jan; Devenson, Renata; **Udal, Andres**; Valušis, Gintaras Terahertz Emitters, Receivers, and Applications X : SPIE Optical Engineering + Applications, 11-15 August 2019, San Diego, California, United States : proceedings SPIE digital library 2019 <https://doi.org/10.1117/12.2528428> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Spectrum analysis for condition monitoring and fault diagnosis of ventilation motor : a case study**

**Shabbir, Noman**; Kütt, Lauri; **Asad, Bilal**; Jawad, Muhammad; **Iqbal, Muhammad Naveed**; **Daniel, Kamran** Energies 2021 / art. 2001 <https://doi.org/10.3390/en14072001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Split-chip design to prevent IP reverse engineering**

**Pagliarini, Samuel Nascimento**; Sweeney, Joseph; Mai, Ken; Blanton, Shawn; Mitra, Subhasish; Pileggi, Larry IEEE Design and Test 2020 / p. 109-118 <https://doi.org/10.1109/MDAT.2020.3033255> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Stabilization and uncertainty analysis of a time-fractional reaction diffusion equation cascaded with a time-fractional hyperbolic partial differential equation**

Chen, Juan; Zhuang, Bo; **Tepljakov, Aleksei**; **Petlenkov, Eduard** The Asian Journal of Control 2022 / p. 2294-2310 <https://doi.org/10.1002/asjc.2637> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Stabilizing region of fractional-order proportional integral derivative controllers for interval delayed fractional-order plants**

**Ghorbani, Majid**; **Tepljakov, Aleksei**; **Petlenkov, Eduard** Asian Journal of Control 2023 / p. 1145 - 1155 <https://doi.org/10.1002/asjc.2894> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **State and output feedback boundary control of time fractional pde–fractional ode cascades with space-dependent diffusivity**

Chen, Juan; **Tepljakov, Aleksei**; **Petlenkov, Eduard**; Chen, Yangquan; Zhuang, Bo IET Control Theory and Applications 2020 / p. 3589 - 3600 <https://doi.org/10.1049/iet-cta.2019.1015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **State coordinated voltage control in an active distribution network with on-load tap changers and photovoltaic systems**

**Singh, Praveen Prakash**; **Palu, Ivo** Global Energy Interconnection 2021 / 9 p. : ill <https://doi.org/10.1016/j.gloi.2021.05.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **State of charge and health estimation of batteries for electric vehicles applications: key issues and challenges**

Singh, Pratap Samarendra; **Singh, Praveen Prakash**; Singh, Niwas Sri; **Tiwari, Prabhakar** Global Energy Interconnection 2021 / 13 p. : ill <https://doi.org/10.1016/j.gloi.2021.05.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **State-of-the-Art techniques for fault diagnosis in electrical machines: Advancements and future directions**

**Akbar, Siddique**; **Vaimann, Toomas**; **Asad, Bilal**; **Kallaste, Ants**; **Sardar, Muhammad Usman**; **Kudelina, Karolina** Energies 2023 / Art. 6345 <https://doi.org/10.3390/en16176345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Steady-state thermal modeling of salient pole synchronous generator**

**Ghahfarokhi, Payam Shams**; Podgornovs, Andrejs; **Kallaste, Ants**; Cardoso, Antonio J. Marques; **Belahcen, Anouar**; **Vaimann, Toomas**; Kudrjavev, Oleg; **Asad, Bilal**; **Iqbal, Muhammad Naveed** Energies 2022 / art. 9460 <https://doi.org/10.3390/en15249460> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Step-Up series resonant DC-DC converter with bidirectional-switch-based boost rectifier for wide input voltage range photovoltaic applications**

**Bakeer, Abualkasim Ahmed Ali**; **Chub, Andrii**; **Vinnikov, Dmitri** Energies 2020 / Art. 3747 <https://doi.org/10.3390/en13143747> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Structural and optical properties of electrochemically deposited ZnO films in electrolyte containing Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>**

Lovchinov, Konstantin; Ganchev, Maxim; Petrov, Miroslav; Nichev, Hristo; Rachkova, Avgustina; Angelov, Orlin; **Mikli, Valdek**;

Dimova-Malinovska, Doriana *Physica Status Solidi (A) Applications and Materials Science* 2013 / p. 743 - 747  
<https://doi.org/10.1002/pssa.201200558> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Structure preserving reduced attitude control of gyroscopes**

Raj, Nidhish; Colombo, Leonardo J.; **Simha, Ashutosh** *Automatica* 2021 / art. 109471, 7 p. : ill  
<https://doi.org/10.1016/j.automatica.2020.109471> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Study of bearing currents in induction machine : diagnostic possibilities, fault detection, and prediction**

Kudelina, Karolina; Raja, Hadi Ashraf; Naseer, Muhammad Usman; Autsou, Siarhei; Asad, Bilal; Vaimann, Toomas; **Kallaste, Ants** *Electrical engineering* 2024 / 14 p. : ill <https://doi.org/10.1007/s00202-024-02411-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Study of estimation based functional iteration approximation dividers**

Patankar, Udayan Sunil; Flores, Miguel E.; Koel, Ants ICCE-2021 IEEE International Conference on Consumer Electronics, CES 2021 / p. 1-4 <https://doi.org/10.1109/ICCE50685.2021.9427657> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Subsurface flow path modeling from inertial measurement unit sensor data using infinite hidden Markov models**

Piho, Laura; Kruusmaa, Maarja *IEEE sensors journal* 2022 / p. 621-630 : ill <https://doi.org/10.1109/JSEN.2021.3128838> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sulfamethizole-imprinted polymer on screen-printed electrodes: Towards the design of a portable environmental sensor**

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali *Sensors and actuators B. Chemical* 2020 / art. 128600, 9 p. : ill <https://doi.org/10.1016/j.snb.2020.128600> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Superconducting energy storage technology-based synthetic inertia system control to enhance frequency dynamic performance in microgrids with high renewable penetration**

Magdy, Gaber; **Bakeer, Abualkasim Ahmed Ali**; Alhasheem, Mohammed *Protection and Control of Modern Power Systems* 2021 / Art. 36 <https://doi.org/10.1186/s41601-021-00212-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Surfactant and non-surfactant radical scavengers in aqueous reactions induced by pulsed corona discharge treatment**

Wang, Yi-Xian; Kornev, Iakov; Wei, Chao-Hai; **Preis, Sergei** *Journal of electrostatics* 2019 / p. 82-86 : ill  
<https://doi.org/10.1016/j.elstat.2019.03.001> [Tehnikaülikooli teadlaste uudne lahendus puhastab vett elektriga](#) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Survey of topology morphing control techniques for performance enhancement of galvanically isolated DC-DC converters**

Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri; Peng, Fang Zheng *IEEE Open Journal of the Industrial Electronics Society* 2022 / p. 751-777 : ill <https://doi.org/10.1109/OJIES.2022.3225265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A survey on UAV computing platforms : a hardware reliability perspective**

Ahmed, Foisal; Jenihhin, Maksim *Sensors* 2022 / art. 6286 <https://doi.org/10.3390/s22166286> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Surveying pervasive public safety communication technologies in the context of terrorist attacks**

Masood, Ali; Scazzoli, Davide; **Sharma, Navuday**; Le Moullec, Yannick; Ahmad, Rizwan; Reggiani, Luca; Magarini, Maurizio; **Alam, Muhammad Mahtab** *Physical communication* 2020 / art. 101109, <https://doi.org/10.1016/j.phycom.2020.101109> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sustainable e-waste recycling : environmental impact assessment of novel waste PCBs separation**

Hosseini, Pooya; **Klauson, Artur**; Hendrickx, Brent; **Goljandin, Dmitri**; Duflou, Joost R. 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 7 p <https://doi.org/10.1109/BEC61458.2024.10737968> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Sustainable rural electrification : harnessing a cosmological wind**

Troullaki, Katerina; Rozakis, Stelios; Latoufis, Kostas; **Giotitsas, Christos**; Priavolou, Christina; Freire, Fausto *Energies* 2022 / art. 4659 <https://doi.org/10.3390/en15134659> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Symmetry in the narrow sense: on the linearity and time-invariance of DQ0 models**

Segev, Elior; Ofir, Ron; **Belikov, Juri**; Levron, Yoash *IEEE Transactions on Power Systems* 2023 / p. 1751-1754  
<https://doi.org/10.1109/TPWRS.2022.3229873> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synchronization of brain activity during induction of propofol anesthesia : comparison of methods**

Lipping, Tarmo; **Saareleht, Jaanika**; Olejarczyk, Elzbieta; Sonkajarvi, Eila; Ylinen, Tuomo; Jantti, Ville 2016 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2016 / art. 7591973



<https://doi.org/10.1109/EMBC.2016.7591973> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**A systematic review of cutting-edge radar technologies : applications for unmanned ground vehicles (UGVs)**

Ersü, Can; Petlenkov, Eduard; Janson, Karl Sensors 2024 / art. 7807 <https://doi.org/10.3390/s24237807> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Systematic review of fault tolerant techniques in underwater sensor networks**

Vihman, Lauri; Kruusmaa, Maarja; Raik, Jaan Sensors 2021 / art. 3264 <https://doi.org/10.3390/s21093264> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Systematic unsupervised recycled field-programmable gate array detection**

Isaka, Yuya; Shintani, Michihiro; Ahmed, Foisal; Inoue, Michiko IEEE transactions on device and materials reliability 2022 / 10 p. : ill <https://doi.org/10.1109/TDMR.2022.3164788> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Zero-current switching impedance-source DC-DC converter**

Korkh, Oleksandr; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5051-5056 <https://doi.org/10.1109/IECON.2019.8927614> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**ZnO nanowires for solar cells : a comprehensive review**

Consonni, Vincent; Briscoe, Joe; Kärber, Erki Nanotechnology 2019 / art. 362001, 41 p : ill <https://doi.org/10.1088/1361-6528/ab1f2e> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Zynq-based system for extracting sorted subsets from large data sets**

Sklyarov, Valery; Skliarova, Iuliia; Rjabov, Artjom; Sudnitsõn, Aleksander Journal of microelectronics, electronic components and materials 2015 / p. 142-152 : ill <https://ojs.midem-drustvo.si/index.php/InfMIDEM/article/view/117/0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A tabulated sizing method for the early stage design of geothermal energy piles including thermal storage**

Ferrantelli, Andrea; Fadejev, Jevgeni; Kurnitski, Jarek Energy and buildings 2020 / art. 110178 <https://doi.org/10.1016/j.enbuild.2020.110178> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Tall buildings cluster form rationalization in a Nordic climate by factoring in indoor-outdoor comfort and energy**

De Luca, Francesco; Naboni, Emanuele; Lobaccaro, Gabriele Energy and buildings 2021 / art. 110831, 16 p. : ill <https://doi.org/10.1016/j.enbuild.2021.110831> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Techno-economic analysis and energy forecasting study of domestic and commercial photovoltaic system installations in Estonia**

Shabbir, Noman; Kütt, Lauri; Raja, Hadi Ashraf; Jawad, Muhammad; Allik, Alo; Husev, Oleksandr Energy 2022 / art. 124156 <https://doi.org/10.1016/j.energy.2022.124156> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Techno-economic analysis of a 5th generation district heating system using thermo-hydraulic model : a multi-objective analysis for a case study in heating dominated climate**

Saini, Puneet; Huang, Pei; Fiedler, Frank; Volkova, Anna; Zhang, Xingxing Energy and buildings 2023 / art. 113347 <https://doi.org/10.1016/j.enbuild.2023.113347> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A test for the generic strong-accessibility of meromorphic nonlinear systems**

Carravetta, Francesco; Sarafrazi, Mohammad Amin; Bartosiewicz, Zbigniew; Kotta, Ülle IEEE transactions on automatic control 2020 / p. 867-873 <https://doi.org/10.1109/TAC.2019.2921645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Textile-integrated conductive layers for flexible semiconductor-based photovoltaic structures**

Czarnecki, Przemyslaw; Szudziel, Bartosz; Janczak, Daniel; Ruta, Lukasz; Sibinski, Maciej; Znajdek, Katarzyna Energies 2024 / art. 3839 <https://doi.org/10.3390/en17153839> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The 2016 BBN Georgian telephone speech keyword spotting system**

Alumäe, Tanel; Karakos, Damianos; Hartmann, William 2017 IEEE International Conference on Acoustics, Speech, and Signal Processing : proceedings : March 5-9, 2017, Hilton New Orleans Riverside, New Orleans, Louisiana, USA 2017 / p. 5755-5759 : tab <https://doi.org/10.1109/ICASSP.2017.7953259> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**The effect of flanking element length in thermal bridge calculation and possible simplifications to account for combined thermal bridges in well insulated building envelopes**

Hallik, Jaanus; Kalamees, Targo Energy and buildings 2021 / art. 111397 <https://doi.org/10.1016/j.enbuild.2021.111397> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The History of IGIP**

Polyakova, Tatiana; Prikhodko, Viacheslav; **Rüütman, Tiia**; Auer, Michael E. The International Society for Engineering Pedagogy: 1972–2022 2023 / p. 1-31 [https://doi.org/10.1007/978-3-031-19890-8\\_1](https://doi.org/10.1007/978-3-031-19890-8_1) [Article collection metrics at Scopus](#) [Article at Scopus](#)

**The impact of 1-butyl-3-methylimidazolium chloride on electrospinning process of SAN polymer solutions and electrospun fiber morphology**

**Gudkova, Viktoria; Krumme, Andres; Märtson, Triin; Rikko, M.; Tarasova, Elvira; Viirsalu, Mihkel** Journal of electrostatics 2014 / p. 433-436 : ill <https://doi.org/10.1016/j.elstat.2014.08.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The impact of the natural level of blood biochemicals on electroencephalographic markers in healthy people**

**Päeske, Laura; Hinrikus, Hiie; Lass, Jaanus; Pöld, Toomas; Bachmann, Maie** Sensors 2024 / art. 7438 <https://doi.org/10.3390/s24237438> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The influence of energy renovation on the change of indoor temperature and energy use**

**Hamburg, Anti; Kalamees, Targo** Energies 2018 / art. 3179, p. 1-15 : ill <https://doi.org/10.3390/en1113179> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The nexus of world electricity and global sustainable development**

**Wittmann, Veronika; Arici, Elif; Meissner, Dieter** Energies 2021 / art. 5843, 21 p. : ill <https://doi.org/10.3390/en14185843> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The proposal of countermeasures for deepfake voices on social media considering waveform and text embedding**

**Yanagi, Yuta; Orihara, Ryohei; Tahara, Yasuyuki; Sei, Yuichi; Alumäe, Tanel; Ohsuga, Akihiko** Annals of emerging technologies in computing 2024 / p. 15-31 ill <https://doi.org/10.33166/AETiC.2024.02.002> [Journal metrics at Scopus](#) [Article at Scopus](#)

**The role of brand community identification and reward on consumer brand engagement and brand loyalty in virtual brand communities**

**Kaur, Harsandaldeep; Paruthi, Mandakini; Islam, Jamid Ul; Hollebeek, Linda Desiree** Telematics and informatics 2020 / art. 101321, 11 p. : ill <https://doi.org/10.1016/j.tele.2019.101321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The role of storage degradation in energy management problems: an optimal control perspective**

**Chowdhury, Nilanjan Roy; Belikov, Juri; Beck, Yuval; Levron, Yoash; Baimel, Dmitry** Journal of Energy Storage 2023 / art. 107412, 10 p <https://doi.org/10.1016/j.est.2023.107412> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Thermal analysis of a disposable, instrument-free DNA amplification lab-on-a-chip platform**

**Pardy, Tamas; Rang, Toomas; Tulp, Indrek** Sensors 2018 / art. 1812, 13 p. : ill <https://doi.org/10.3390/s18061812> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Thermal analysis of totally enclosed fan cooled synchronous reluctance motor-state of art**

**Ghahfarokhi, Payam Shams; Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar** IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4372-4377 : ill <https://doi.org/10.1109/IECON.2019.8927706> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Three-dimensional eddy-current analysis in steel laminations of electrical machines as a contribution for improved iron loss modeling**

**Handgruber, Paul; Stermecki, Andrej; Biro, Oszkar; Belahcen, Anouar; Dlala, Emad** IEEE transactions on industry applications 2013 / p. 2044-2052 : ill <https://doi.org/10.1109/TIA.2013.2260713> <https://ieeexplore.ieee.org/document/6510501> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**3D finite element modelling of mixing phenomena in droplet-based microfluidic systems**

**Szomor, Zsombo; Gyimah, Nafisat; Fürjes, Peter; Pardy, Tamas** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 4 p <https://doi.org/10.1109/BEC61458.2024.10737975> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**3D printing as a means of learning and communication: The 3Ducation project revisited**

**Pantazis, Alexandros; Priavolou, Christina** Telematics and informatics 2017 / p. 1465-1476 : ill <https://doi.org/10.1016/j.tele.2017.06.010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Three-level three-phase quasi-Z-source neutral-point-clamped inverter with novel modulation technique for photovoltaic application**

**Husev, Oleksandr; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Vinnikov, Dmitri; Jalakas, Tanel** Electric power systems research 2016 / p. 10-21 : ill <https://doi.org/10.1016/j.epsr.2015.08.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Three-level T-type qZ source inverter as grid-following unit for distributed energy resources**

**Gutiérrez-Escalona, Javier; Roncero-Clemente, Carlos; Husev, Oleksandr; Barrero-Gonzalez, Fermin; Llor, Ana M.; Fernao Pires,**

### **3L-T-type qZSI as grid-forming unit in AC microgrid**

Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; **Husev, Oleksandr**; Pires, Victor; Milanés-Montero, Maria Isabel; Gonzalez-Romera, Eva IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / code 184962

<https://doi.org/10.1109/IECON49645.2022.9968571> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Three-mode reconfigurable rectifier for DC-DC converters with wide input voltage range**

**Chub, Andrii; Vinnikov, Dmitri**; Kouro, Samir; Malinowski, Mariusz IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4429-4435 <https://doi.org/10.1109/IECON.2019.8926994> [Conference proceedings at Scopus](#)

[Article at Scopus](#) [Article at WOS](#)

### **Three-port current fed push/pull partial power converter for integration of PV/battery systems in DC microgrids**

**Yadav, Neelesh; Chub, Andrii; Kütt, Lauri** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p

<https://doi.org/10.1109/BEC61458.2024.10737934> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Three-port flyback converter for photovoltaic module integration in bipolar DC microgrids**

**Chub, Andrii; Zinchenko, Denys; Vinnikov, Dmitri; Blinov, Andrei** 2020 IEEE International Conference on Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 909-914

<https://doi.org/10.1109/ICIT45562.2020.9067237> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Throughput estimation with regard to airtime consumption unfairness in mixed data rate Wi-Fi networks**

Abdul-Hadi, Alaa Mohammed; Tarasyuk, Olga; Gorbenko, Anatoliy; Kharchenko, Vyacheslav; **Hollstein, Thomas** Communications - Scientific Letters of the University of Žilina 2014 / p. 84-89 : ill <https://komunikacie.uniza.sk/pdfs/csl/2014/01/15.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **THz gyrotron and BWO designed for operation in DNP-NMR spectrometer magnet**

Bratman, V. L.; Fedotov, A. E.; Kalyonov, Yu K.; Makhlov, Petr B.; **Samoson, Ago** Journal of Infrared, Millimeter, and Terahertz

Waves 2013 / p. 837 - 846 <https://doi.org/10.1007/s10762-013-0024-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Tight coupling of GNSS and IMU using extended Kalman filtering**

Babri, Usman Muhammad; Irfan Haider Jillani, Muhammad; Ahmad, Rizwan; **Alam, Muhammad Mahtab** 2024 19th Biennial Baltic Electronics Conference (BEC) 2024 / 6 p <https://doi.org/10.1109/BEC61458.2024.10737945> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Time-dependent variations in current harmonic emission by LED lamps in the low-voltage network**

**Iqbal, Muhammad Naveed; Kütt, Lauri; Asad, Bilal; Shabbir, Noman; Rasheed, Iftikhar** Electrical Engineering 2021 / p. 1525-1539 : ill <https://doi.org/10.1007/s00202-020-01175-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Topological review of quasi-switched boost inverters**

Barath, Jayakumar Geetha Nataraj; Soundarajan, Ayyasamy; Stepenko, Serhii; **Husev, Oleksandr; Vinnikov, Dmitri**; Nguyen, Minh-Khai Electronics 2021 / art. 1485 <https://doi.org/10.3390/electronics10121485> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Toward automatic condition assessment of high-voltage transmission infrastructure using deep learning techniques**

**Manninen, Henri**; Ramlal, Craig J.; Singh, Arvind; Rocke, Sean; **Kilter, Jako; Landsberg, Mart** International journal of electrical power & energy systems 2021 / art. 106726 <https://doi.org/10.1016/j.ijepes.2020.106726> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Towards a machine learning-based framework for DDOS attack detection in software-defined IoT (SD-IoT) networks**

Bhayo, Jalal; Shah, Syed Attique; Hameed, Sufian; Ahmed, Awais; Nasir, Jamal; **Draheim, Dirk** Engineering Applications of Artificial Intelligence 2023 / art. 106432 <https://doi.org/10.1016/j.engappai.2023.106432> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Towards a synesthesia laboratory : real-time localization and Visualization of a sound source for virtual reality applications**

**Köse, Ahmet; Tepljakov, Aleksei; Astapov, Sergei; Draheim, Dirk; Petlenkov, Eduard; Vassiljeva, Kristina** Journal of communications software and systems 2018 / p. 112–120 : ill <https://doi.org/10.24138/jcomss.v14i1.410> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Towards an open-source intrusion detection system integration into marine vehicles**

**Visky, Gabor; Khisteva, Dariana; Vaarandi, Risto; Maennel, Olaf Manuel** 2024 International Symposium ELMAR Proceedings of ELMAR-2024 : 66th International Symposium ELMAR. 16-18 September 2024, Zadar, Croatia 2024 / p. 263-268

<https://doi.org/10.1109/ELMAR62909.2024.10694518> [Conference proceedings at Scopus](#) [Article at Scopus](#)

---

### **Towards efficient wireless body area network using two-way relay cooperation**

Waheed, Maham; Ahmad, Rizwan; **Alam, Muhammad Mahtab** Sensors 2018 / art. 565, 23 p. : ill <https://doi.org/10.3390/s18020565> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **TrajectoryNAS: a neural architecture search for trajectory prediction**

Sharifi, Ali Asghar; Zoljodi, Ali; **Daneshtalab, Masoud** Sensors 2024 / 15, p. : ill <https://doi.org/10.3390/s24175696> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transactive energy : power electronics challenges**

Martins, João F.; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Malinowski, Mariusz IEEE Power Electronics Magazine 2022 / p. 20-32 <https://doi.org/10.1109/MPEL.2022.3140981> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transformation of natural and synthetic dyes in pulsed electric discharge in the granular steel bed**

Shiyan, Ludmila; Lobanova, Galina; Yurmazova, Tatyana; Machekhina, Ksenia; **Preis, Sergei** Journal of electrostatics 2018 / p. 90-98 : ill <https://doi.org/10.1016/j.elstat.2018.10.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transformation of nonlinear MIMO discrete-time systems into the extended observer form**

**Kaparin, Vadim; Kotta, Ülle** Asian journal of control 2019 / p. 2208–2217 : ill <https://doi.org/10.1002/asjc.1824> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transformation of nonlinear state equations into the observer form : necessary and sufficient conditions in terms of one-forms**

**Kaparin, Vadim; Kotta, Ülle** Kybernetika 2015 / p. 36-58 <https://doi.org/10.14736/kyb-2015-1-0036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transition from self-organized criticality into self-organization during sliding Si3N4 balls against nanocrystalline diamond films**

**Bogatov, Andrei; Podgurski, Vitali; Vagiström, Heinar; Yashin, Maxim; Shaikh, Asad Alamgir; Viljus, Mart**; Menezes, Pradeep; Gershman, Iosif Entropy 2019 / art. 1055 ; 12 p <https://doi.org/10.3390/e21111055> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Transmission of a Gaussian beam through a circular aperture: comments**

**Taklaja, Andres** Applied Optics 1987 / p. 5202 <https://doi.org/10.1364/AO.26.005202> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Tree-based ensemble multi-task learning method for classification and regression**

**Simm, Jaak**; Magrans De Abril, Ildelfons; Sugiyama, Masashi IEICE transactions on information and systems 2014 / p. 1677-1681 <https://doi.org/10.1587/transinf.E97.D.1677> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **UAV trajectory planning for disaster scenarios**

Javed, Sadaf; Hassan, Ali; Ahmad, Rizwan; Ahmed, Waqas; **Alam, Muhammad Mahtab**; Rodrigues, Joel J. P. C. Vehicular Communications 2023 / art. 100568, 12 p. : ill <https://doi.org/10.1016/j.vehcom.2022.100568> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Ultrawide voltage gain range microconverter for integration of silicon and thin-film photovoltaic modules in DC microgrids**

**Chub, Andrii; Vinnikov, Dmitri; Korkh, Oleksandr**; Malinowski, Mariusz; Kouro, Samir IEEE transactions on power electronics 2021 / p. 13763-13778 <https://doi.org/10.1109/TPEL.2021.3084918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Uncertainty propagation in PMU-based transmission line monitoring**

**Tuttelberg, Kaur; Kilter, Jako** IET generation, transmission & distribution 2018 / p. 745-755 : ill <https://doi.org/10.1049/iet-gtd.2017.0244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Uncertainty quantification of input parameters in a 2D finite-element model for broken rotor bar in an induction machine**

Billah, Md Masum; Martin, Florian; **Belahcen, Anouar**; Balasubramanian, Aswin; **Vaimann, Toomas**; Sobra, Jan IEEE transactions on magnetism 2022 / art. 8205804 <https://doi.org/10.1109/TMAG.2022.3173663> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Understanding computational methods for solar envelopes based on design parameters, tools, and case studies : a review**

Alkadri, Miktha Farid; **De Luca, Francesco**; Turrin, Michel; Sariyildiz, Sevil Energies 2020 / art. 3302, 25 p. : ill <https://doi.org/10.3390/en13133302> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Understanding fault-tolerance vulnerabilities in advanced SoC FPGAs for critical applications**



**Cherezova, Natalia; Shibin, Konstantin; Jenihhin, Maksim;** Jutman, Artur Microelectronics reliability 2023 / art. 115010, 10 p. : ill <https://doi.org/10.1016/j.microrel.2023.115010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Underwater bioinspired sensing: New opportunities to improve environmental monitoring**

**Tuhtan, Jeffrey Andrew; Nag, Saptarshi; Kruusmaa, Maarja** IEEE instrumentation & measurement magazine 2020 / p. 30-36 <https://doi.org/10.1109/MIM.2020.9062685> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Uniform Sb2S3 optical coatings by chemical spray method**

**Eensalu, Jako Siim; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Mere, Arvo; Krunks, Malle** Beilstein journal of nanotechnology 2019 / p. 198-210 : ill <https://doi.org/10.3762/bjnano.10.18> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A Unique backoff algorithm in IEEE 802.15.6 WBAN**

Saboor, Abdul; Ahmad, Rizwan; Ahmed, Waqas; **Alam, Muhammad Mahtab** 2018 IEEE 88th Vehicular Technology Conference (VTC-Fall) :Chicago, IL, USA27 - 30 August 2018 : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/VTCFall.2018.8690812> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Unlocking the porosity of Fe–N–C catalysts using hydroxyapatite as a hard template en route to eco-friendly high-performance AEMFCs**

Teppor, Patrick; Jäger, Rutha; Koppel, Miriam; **Volobujeva, Olga;** Palm, Rasmus; Månsson, Martin; Härk, Eneli; Kochovski, Zdravko; Aruväli, Jaan; Kooser, Kuno Journal of power sources 2024 / art. 233816, 11 p. : ill <https://doi.org/10.1016/j.jpowsour.2023.233816> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Unsupervised feature mapping via stacked sparse autoencoder for automated detection of large pulmonary nodules in CT images**

**Gupta, Anindya;** Saar, Tõnis; **Märtens, Olev; Le Moullec, Yannick** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 59-63 : ill <https://doi.org/10.5755/j01.eie.23.6.19695> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Upwelling parameters from bias-corrected composite satellite SST Maps in the Gulf of Finland (Baltic Sea)**

**Uiboupin, Rivo; Laanemets, Jaan** IEEE Geoscience and Remote Sensing Letters 2015 / p. 592-596 <https://doi.org/10.1109/LGRS.2014.2352397> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**User experience during an immersive virtual reality-based cognitive task : a comparison between Estonian and Italian older adults with MCI**

Mondellini, Marta; Arlati, Sara; Gapeyeva, Helena; Lees, Kairi; Märitz, Ingrid; **Pizzagalli, Simone Luca; Otto, Tauno;** Sacco, Marco; Teder-Braschinsky, Anneli Sensors 2022 / art. 8249 <https://doi.org/10.3390/s22218249> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Uses and misuses of quasi-static time-varying phasor models in power systems**

**Belikov, Juri;** Levron, Yoash IEEE transactions on power delivery 2018 / p. 3263-3266 <https://doi.org/10.1109/TPWRD.2018.2852950> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Using microcontrollers for high accuracy analogue measurements**

**Jaanus, Martin; Udal, Andres; Kukk, Vello; Umbleja, Kadri** Elektronika ir elektrotehnika = Electronics and electrical engineering 2013 / p. 51-54 : ill <https://doi.org/10.5755/j01.eee.19.6.4559> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Using STLs for effective in-field test of GPUs**

Rodriguez Condia, Josie E.; Da Silva, Felipe Augusto; **Bagbaba, Ahmet Cagrl;** Guerrero-Balaguera, Juan-David; Hamdioui, Said; Sauer, Christian; Reorda, Matteo Sonza IEEE Design and Test 2023 / p. 109-117 <https://doi.org/10.1109/MDAT.2022.3188573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Utilization of additive manufacturing in the thermal design of electrical machines : a review**

**Sarap, Martin; Kallaste, Ants; Ghahfarokhi, Payam Shams; Tiismus, Hans; Vaimann, Toomas** Machines 2022 / art. 251 <https://doi.org/10.3390/machines10040251> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Utilizing the fuzzy logic algorithm for cartesian robot control system in conditions of mechanical damage transmission**

**Dunaeva, Olga; Autsou, Siarhei; Kudelina, Karolina; Roosileht, Mare** IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society IECON Proceedings (Industrial Electronics Conference) 2024 / 5 p <https://doi.org/10.1109/IECON55916.2024.10905445> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Utility-scale energy storage systems : a comprehensive review of their applications, challenges, and future directions**

Luo, Wensheng; Stynski, Sebastian; **Chub, Andrii;** Franquelo, Leopoldo G.; Malinowski, Mariusz; **Vinnikov, Dmitri** IEEE industrial electronics magazine 2021 / p. 17-27 <https://doi.org/10.1109/MIE.2020.3026169> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Utility-scale energy storage systems : converters and control**

Stynski, Sebastian; Luo, Wensheng; **Chub, Andrii; Vinnikov, Dmitri** IEEE industrial electronics magazine 2020 / p. 32-52  
<https://doi.org/10.1109/MIE.2020.3011655> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Validation of wired and wireless interconnected body sensor networks**

Talpur, Anum; Shaikh, Faisal Karim; Baloch, Natasha; Felemban, Emad; Khelil, Abdelmajid; **Alam, Muhammad Mahtab** Sensors 2019 / art. 3697, 23 p. : ill <https://doi.org/10.3390/s19173697> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Valorisation of waste heat in existing and future district heating systems**

Pakere, Ieva; Blumberga, Dagnija; **Volkova, Anna; Lepiksaar, Kertu**; Zirne, Agate Energies 2023 / art. 6796  
<https://doi.org/10.3390/en16196796> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Wear-out failure analysis of an impedance-source PV microinverter based on system-level electrothermal modeling**

Shen, Yanfeng; **Chub, Andrii**; Wang, Huai; **Vinnikov, Dmitri; Liivik, Elizaveta**; Blaabjerg, Frede IEEE transactions on industrial electronics 2019 / p. 3914-3927 <https://doi.org/10.1109/TIE.2018.2831643> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Verification of utility-scale solar photovoltaic plant models for dynamic studies of transmission networks**

Machlev, Ram; Batushansky, Zohar; Soni, Sachin; Chadliev, Vladimir; **Belikov, Juri**; Levron, Yoash Energies 2020 / art. 3191, 20 p. : ill <https://doi.org/10.3390/en13123191> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Verifying cache architecture vulnerabilities using a formal security verification flow**

**Ghasempouri, Tara; Raik, Jaan; Paul, Kolin**; Reinbrecht, Cezar; Hamdioui, Said; Taouil, Mottaqiallah Microelectronics reliability 2021 / art. 114085 <https://doi.org/10.1016/j.microrel.2021.114085> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Whisker-based tactile navigation algorithm for underground robots**

**Kossas, Tanel; Remmas, Mohamed Walid; Gkliva, Roza; Ristolainen, Asko; Kruusmaa, Maarja** 2024 IEEE International Conference on Robotics and Automation (ICRA) 2024 / p. 13164-13170 <https://doi.org/10.1109/ICRA57147.2024.10610762> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Wide input voltage range high step-up DC-DC converter with fault-tolerant operation capability**

**Vinnikov, Dmitri; Chub, Andrii; Korkh, Oleksandr**; Kouro, Samir 2019 IEEE International Conference on Industrial Technology, ICIT 2019 : Melbourne, Australia, 13-15 February 2019 : proceedings 2019 / p. 1099-1104 : ill <https://doi.org/10.1109/ICIT.2019.8755040> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Wide input voltage range operation of the series resonant DC-DC converter with bridgeless boost rectifier**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri; Rosin, Argo** Energies 2020 / p. 4220-4237  
<https://doi.org/10.3390/en13164220> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Wide input voltage range photovoltaic microconverter with reconfigurable buck-boost switching stage**

**Chub, Andrii; Vinnikov, Dmitri; Kosenko, Roman; Liivik, Elizaveta** IEEE transactions on industrial electronics 2017 / p. 5974-5983 : ill <https://doi.org/10.1109/TIE.2016.2645891> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Wide range series resonant DC-DC converter with a reduced component count and capacitor voltage stress for distributed generation**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Blinov, Andrei**; Lai, Jih-Sheng Energies 2021 / art. 2051  
<https://doi.org/10.3390/en14082051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Wide-range operation of high step-up DC-DC converters with multimode rectifiers**

**Chub, Andrii; Vinnikov, Dmitri; Korkh, Oleksandr; Jalakas, Tanel; Demidova, Galina** Electronics 2021 / art. 914, 20 p. : ill <https://doi.org/10.3390/electronics10080914> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Wide-range universal isolated DC-DC converter for EV charging applications**

**Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 5 p <https://doi.org/10.1109/IECON55916.2024.10905692> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Window model and 5 year price data sensitivity to cost-effective facade solutions for office buildings in Estonia**

**Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek; Voll, Hendrik** Energy 2017 / p. 685-697 : ill <https://doi.org/10.1016/j.energy.2017.06.160> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Wireless charging station design for electric scooters : case study analysis**

**Shevchenko, Viktor; Pakhaliuk, Bohdan; Husev, Oleksandr; Vinnikov, Dmitri**; Strzelecki, Ryszard Energies 2024 / art. 2472

#### Virtual inertia control methods in islanded microgrids

**Škiparev, Vjatseslav**; Machlev, Ram; Chowdhury, Nilanjan Roy; Levron, Yoash; **Petlenkov, Eduard**; Belikov, Juri Energies 2021 / art. 1562, 20 p. : ill <https://doi.org/10.3390/en14061562> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Virtual inertia emulation through virtual synchronous generator based superconducting magnetic energy storage in modern power system

Salama, Hossam S.; **Bakeer, Abualkasim Ahmed Ali**; Magdy, Gaber; Vokony, Istvan Journal of Energy Storage 2021 / Art. 103466 <https://doi.org/10.1016/j.est.2021.103466> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Vision towards 5G : comparison of radio propagation models for licensed and unlicensed indoor femtocell sensor networks

**Shabbir, Noman**; Kütt, Lauri; Alam, Muhammad Mahtab; Roosipuu, Priit Physical communication 2021 / art. 101371 <https://doi.org/10.1016/j.phycom.2021.101371> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Voltage distortion approach for output filter design for off-grid and grid-connected PWM inverters

**Husev, Oleksandr**; Chub, Andrii; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; **Vinnikov, Dmitri** Journal of power electronics 2015 / p. 278-287 : ill <https://doi.org/10.6113/JPE.2015.15.1.278> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Voltage gain extension techniques for high step-up galvanically isolated DC-DC converters

**Vinnikov, Dmitri**; Chub, Andrii; Korkh, Oleksandr; Liivik, Elizaveta; **Blinov, Andrei** 2020 IEEE International Conference on Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 1021-1027 : ill <https://doi.org/10.1109/ICIT45562.2020.9067115> Conference proceedings at Scopus Article at Scopus Article at WOS

#### Voltage source operation of the energy-router based on model predictive control

**Roasto, Indrek**; **Husev, Oleksandr**; Najafzadeh, Mahdiyyeh; Jalakas, Tanel; Rodriguez, Jose Energies 2019 / art. 1892, 15 p. . ill <https://doi.org/10.3390/en12101892> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Визначення параметрів регулятора в системі керування DC/DC перетворювачем з квазі-імпедансною ланкою за умови стійкості для малого сигналу

**Husev, Oleksandr** Технічна електродинаміка 2013 / с. 18-23 : ил [https://previous.techined.org.ua/2013\\_5/st4.pdf](https://previous.techined.org.ua/2013_5/st4.pdf) Journal metrics at Scopus Article at Scopus

#### Идентификация и оценка влияния источников несимметрии напряжений в трехфазных трехпроводных электрических сетях

Sayenko, Yuri; Kalyuzhniy, Dmitry; **Bolgov, Viktor** Технічна електродинаміка = Technical Electrodynamics 2019 / с. 65-73 : илл <https://doi.org/10.15407/techned2019.06.065> Journal metrics at Scopus Article at Scopus

#### Порівняння імпедансних ланок для перетворювачів з джерелом напруги

**Husev, Oleksandr**; Chub, Andrii; **Vinnikov, Dmitri** Технічна електродинаміка 2015 / с. 25-32 : ил <https://techined.org.ua/index.php/techned/article/view/926/803> Journal metrics at Scopus Article at Scopus

#### Стиійкість замкнених систем електроживлення з використанням широтно-імпульсної модуляції під час врахування фактору пульсацій

Zhuikov, V.Y.; Verbytskyi, I.V.; Abakumova, O.O.; **Blinov, Andrei** Перетворення параметрів електричної енергії 2023 / с. 3-7 : ил <https://doi.org/10.15407/techned2023.06.003> Journal metrics at Scopus Article at Scopus

#### 一多集台左變防压应一打龍牙對的變易控制

Zhuang, Bo; Cui, Baotong; **Chen, Juan** Control theory & applications 2020 / p. 592-602 <https://doi.org/10.7641/CTA.2019.90061> Journal metrics at Scopus Article at Scopus