

Aasta insener 2021 Argo Rosin: rohepööre tõstab inseneride palgad edetabelite tippu

Rosin, Argo Director. Inseneeria 2022 / lk. 22-29 : fot https://www.ester.ee/record=b1519314*est <https://director.ee/2022/01/28/aasta-insener-2021-argo-rosin-rohepoore-tostab-inseneride-palgad-edetabelite-tippu/>

Aasta insener 2024 on Siim Heering

toostusest.ee 2024 <https://toostusest.ee/uudis/2024/12/16/aasta-insener-2024-on-siim-heering/>
<https://teadus.postimees.ee/8155510/tanavune-aasta-insener-tegeleb-mehitamata-lennuvahenditega>

Aasta teadlane: alalisvool aitab parandada hoone energiatõhusust 18 protsenti

Alvela, Ain postimees.ee 2023 [Aasta teadlane: alalisvool aitab parandada hoone energiatõhusust 18 protsenti](#)

Aasta tehnikaüliõpilane 2021 on Karolina Kudelina

Vaimann, Toomas Meie Leht 2021 / lk. 4 http://narva-joesuu.ee/documents/2032926/30038466/Meie_Leht_DETSEMBER_2021_EST.pdf/6812d56d-dce2-4684-87ee-72639332075f

Aasta tehnikaüliõpilane Brenda Pent: inseneeria on naiste ala ja ülipõnev

Kamps, Mari visionest.institute 2024 [Aasta tehnikaüliõpilane Brenda Pent: inseneeria on naiste ala ja ülipõnev](#)

ABB YuMi high-speed pick and place game in action

Zahavi, Ali; Al Afrange, Fadi; Najafi Haeri, Shahriar; Ajeevan, Udith; Chamara Liyanage, Dhanushka Proceedings of the 29th International DAAAM Symposium "Intelligent Manufacturing & Automation" : 24-27th October 2018, Zadar, Croatia 2018 / p. 1216-1221 : ill <https://doi.org/10.2507/29th.daaam.proceedings.176>

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; Shams Ghahfarokhi, Payam 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](#)

Accelerated global MPPT for multimode series resonant DC-DC converter

Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri 2021 IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Florence, Italy, 14-16 July 2021 2021 <https://doi.org/10.1109/CPE-POWERENG50821.2021.9501077>

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](#)

Accuracy analysis of dual active bridge simulations under different integration methods

Arena, Gabriele; Vinnikov, Dmitri; Chub, Andrii; de Carne, Giovanni 2022 AEIT International Annual Conference (AEIT) : October 3-5, 2022 2022 / p. 1-6 <https://doi.org/10.23919/AEIT56783.2022.9951711>

Accuracy analysis of selected time series and machine learning methods for smart cities based on Estonian electricity consumption forecast

Häring, Tobias; Ahmadiyahangar, Roya; Rosin, Argo; Korõtko, Tarmo; Biechl, Helmuth 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 425-428 : ill <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161690>

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 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](#)

Active and reactive power control of DFIG using optimized fractional order-PI controller

Javed, Umar; Arshad, Muhammad Asad; Shabbir, Noman; Kütt, Lauri; Rassõlkin, Anton 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 398-404 <https://doi.org/10.1109/PEMC48073.2021.9432608>

Active blended learning as a tool focused on industry 5.0 at EuroTeQ Engineering University

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2024 IEEE Global Engineering Education Conference (EDUCON) : proceedings 2024 / p. 1-5 <https://doi.org/10.1109/EDUCON60312.2024.10578688> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Active blended learning engineering students : a case study

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Education Sciences 2022 / art. 344 <https://doi.org/10.3390/educsci12050344> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Active blended learning of industry 5.0-oriented sustainable power engineering specialists

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard First International Conference on Sustainable Energy Education (SEED 2024) : proceedings 2024 / p. 719-725 <https://doi.org/10.4995/SEED2024.2024.19007>

Active clamped dual current-fed bidirectional DC-DC converter for wide voltage range applications

Chauhan, Sachin; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 7 p <https://doi.org/10.1109/RTUCON62997.2024.10830838>

Active front end converters with voltage balancing capability

Verbytskyi, Ievgen; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri; Kyselova, Anna 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p <https://doi.org/10.1109/RTUCON62997.2024.10830902>

Active learning of students with diverse goals and backgrounds in the light of Industry 4.0 requirements

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Proceedings of the 2022 IEEE Global Engineering Education Conference (EDUCON) 2022 / p. 351-355 <https://doi.org/10.1109/EDUCON52537.2022.9766564>

Active redundancy in fault tolerance : A modular switch level solution with synchronous switching

Shirodkar, Aditya; Banavath, Satish Naik; Chub, Andrii; Mandrioli, Riccardo; Ricco, Mattia 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 6 p <https://doi.org/10.1109/ICDCM63994.2025.11144667>

Actual impact of heat pumps to energy performance of apartment buildings in Estonia

Reino, Arbo; Hamburg, Arvi 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982370>

Adaptive frequency-based power management for off-grid hybrid photovoltaic converters

Gonschorowsk, Ezequiel; Cardoso, Rafael; Carvalho da Silva, Edivan Laercio; Stein, Carlos Marcelo De Oliveira; Carati, Emerson Giovanni; Denardin, Gustavo Weber; da Costa, Jean Patric Eletronica de potencia 2024 / art. e202440 <https://doi.org/10.18618/REP.e202440>

Adaptive virtual inertia-damping system based on model predictive control for low-inertia microgrids

Fawzy, Asmaa; Bakeer, Abualkasim Ahmed Ali; Magdy, Gaber; Atawi, Ibrahim E.; Roshdy, Mohamed IEEE Access 2021 / p. 109718 - 109731 <https://doi.org/10.1109/ACCESS.2021.3101887> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ADCS development for student CubeSat satellites - TalTech case study

Rassõlkin, Anton; Vaimann, Toomas; Org, Peeter; Leibak, Alar; Gordon, Rauno; Priidel, Eiko Proceedings of the Estonian Academy of Sciences 2021 / p. 268-285 : ill <https://doi.org/10.3176/proc.2021.3.06> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Additive design possibilities of electrical machines

Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659828>

Additive Manufacturing and Performance of E-Type Transformer Core

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Rassõlkin, Anton; Vaimann, Toomas; Shams Ghahfarokhi, Payam 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

Kallaste, Ants 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 61-62 : ill https://www.ester.ee/record=b5183874*est

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](#)

Additive manufacturing of Nd-based permanent magnets from recycled materials : innovations, challenges, and prospects

Sarwar, Waqas Ahmed; Tiismus, Hans Future Frontiers : PhD Conference on Emerging Technologies : Book of Abstracts 2025 / p. 25 ; poster 16 https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts_pub3.pdf

Additive manufacturing of prototype axial flux switched reluctance electrical machine

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 4 p. : ill <https://doi.org/10.1109/IWED52055.2021.9376337>

Additively manufactured advanced thermal management solutions for electrical machines = Kihltisandusmeetodil valmistatud täiustatud jahutuslahendused elektrimasinatele

Sarap, Martin 2025 https://www.ester.ee/record=b5755150*est <https://digikogu.taltech.ee/et/Item/e8fe803d-bbda-41c5-b78d-3aef7b1fd504> <https://doi.org/10.23658/taltech.54/2025>

Additively manufactured and topology optimized heatsink for a propulsion motor

Sarap, Martin; Kallaste, Ants; Vaimann, Toomas; Shams Ghahfarokhi, Payam 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700108>

Address from main organizers

Vinnikov, Dmitri; Liivik, Elizaveta 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. [3] https://www.ester.ee/record=b5291755*est

Address from main organizers

Vinnikov, Dmitri; Liivik, Elizaveta 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. [3] https://www.ester.ee/record=b5183874*est

Addressing cross-coupling issues in magnetically integrated three-port DC-DC converters

Carvalho da Silva, Edivan Laercio; Blinov, Andrei; Sohail, Umer; **Chub, Andrii** 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 5 p <https://doi.org/10.1109/PEMC61721.2024.10726373>

Adjusted electrical equivalent circuit model of induction motor with broken rotor bars and eccentricity faults

Petrov, Aleksei; Plokhov, Igor; **Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants; Belahcen, Anouar** Proceeding of the 2017 IEEE 11th International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED) : [Tinos (Greece), August 29 - September 01, 2017] 2017 / p. 58-64 : ill <https://doi.org/10.1109/DEMPED.2017.8062334>

Advanced condition monitoring method for high voltage overhead lines based on visual inspection

Manninen, Henri; Kilter, Jako; Landsberg, Mart 2018 IEEE Power & Energy Society General Meeting (PESGM 2018) : Portland, Oregon, USA, 5-10 August 2018 2018 / p. 2321-2325 : ill <https://doi.org/10.1109/PESGM.2018.8586498>

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](#)

Advanced methodology for estimation of value of lost load (VOLL) using equipment specific health indices

Manninen, Henri; Kilter, Jako; Landsberg, Mart 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p <https://doi.org/10.1109/PQ.2019.8818245>

Advanced Modelling Frameworks for the Digital Twin of an Autonomous Electric Vehicle Propulsion Drive System = Autonoomse elektrisõiduki veoelektrijami digitaalse kaksiku täiustatud modelleerimise raamistikud

Mohamed, Mahmoud Ibrahim Hassanin 2025 <https://digikogu.taltech.ee/et/Item/6df09867-e34b-45f1-b04e-b97c08b90589> https://www.ester.ee/record=b5746300*est <https://doi.org/10.23658/taltech.31/2025>

Advancements and restrictions of E-assessment in view of remote learning in engineering

Raud, Zoja; Vodovozov, Valery 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982349>

Advances in machine fault diagnosis

Vaimann, Toomas Applied sciences 2021 / art. 7348, 5 p <https://doi.org/10.3390/app11167348> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Advances in machine fault diagnosis

2022 <https://doi.org/10.3390/books978-3-0365-5110-4>

Advances in machine fault diagnosis

Vaimann, Toomas Advances in machine fault diagnosis 2022 / p. 1-5 <https://doi.org/10.3390/app11167348>

Advancing solar power forecasting with machine learning

Hokmabad, Hossein Nourollahi 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 89-90 : ill https://www.ester.ee/record=b5570906*est

Aeg tunda rõõmu

Kilk, Aleksander Mesinik : mesindusajakiri 2023 / lk. 4-5 https://www.ester.ee/record=b1072594*est

Aggregated conducted electromagnetic interference generated by DC/DC converters with deterministic and random modulation

Loschi, Hermes; Smolenski, Robert; Lezynski, Piotr; Nascimento, Douglas; **Demidova, Galina** Energies 2020 / art. 3698 <https://doi.org/10.3390/en13143698>

Aggregated conducted electromagnetic interference generated by DC/DC converters with deterministic and random modulation

Loschi, Hermes; Smolenski, Robert; Lezynski, Piotr; Nascimento, Douglas; **Demidova, Galina** Industrial and Technological Applications of Power Electronics Systems 2021 / p. 331-339 <https://doi.org/10.3390/en13143698>

Aggregated demand-side energy flexibility : a comprehensive review on characterization, forecasting and market prospects

Plaum, Freddy; Ahmadihangar, Roya; Rosin, Argo; Kilter, Jako Energy reports 2022 / p. 9344-9362 <https://doi.org/10.1016/j.egyr.2022.07.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aggregated energy flexibility provision using residential heat pumps

Plaum, Freddy; Ahmadihangar, Roya; Rosin, Argo 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 5 I <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880898>

Aggregation ready flexibility management methods for mechanical ventilation systems in buildings

Maask, Vahur; Rosin, Argo; Korõtko, Tarmo; Thalfeldt, Martin; Syri, Sanna; Ahmadihangar, 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](#)

Aggregator based coordinated Transactive Energy trading between Microgrids

Crasta, Cletus J.; Mishra, Sambeet; Agabus, Hannes; Palu, Ivo 2020 International Conference on Smart Grids and Energy Systems (SGES) 2020 <https://doi.org/10.1109/SGES51519.2020.00166>

Aggregator coordinated transactive energy trading for microgrids

Crasta, Cletus J. 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 105-106 : ill https://www.ester.ee/record=b5504019*est

Aggregator index for 24-hour energy flexibility evaluation in an ADN including PHEVs

Rashtbaryan, A.; Gharehpetian, Gevork B.; Baghaee, H. R.; **Ahmadihangar, Roya** IEEE Access 2024 / p. 16105-16116 <https://doi.org/10.1109/ACCESS.2024.3353136> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

AI applications for power quality issues in distribution systems : A systematic review

Nabian Dehaghani, Mitra; Korõtko, Tarmo; Rosin, Argo IEEE Access 2025 / p. 18346-18365 2025 <https://doi.org/10.1109/ACCESS.2025.3533702>

AI applications to enhance resilience in power systems and microgrids - a review

Zahraoui, Younes; **Korõtko, Tarmo; Rosin, Argo**; Mekhilef, Saad; Seyedmahmoudian, Mehdi; Stojcevski, Alex; Alhamrouni, Ibrahim Sustainability 2024 / art. 4959 <https://doi.org/10.3390/su16124959> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

AI technologies and their applications in small-scale electric power systems

Shahid, Arqum; Plaum, Freddy; Korõtko, Tarmo; Rosin, Argo IEEE Access 2024 / p. 109984-110001 <https://doi.org/10.1109/ACCESS.2024.3440067> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Air-core coupled inductor based modular solid-state circuit breaker with reduced components for DC buildings

Pogulaguntla, Aditya; Dsa, Daniel; Yagna, Griddaluru Venkata; Banavath, Satish Naik; **Carvalho da Silva, Edivan Laercio; Chub, Andrii; Vinnikov, Dmitri** IEEE journal of emerging and selected topics in power electronics 2024 / 12 p <https://doi.org/10.1109/JESTPE.2024.3485735>

"AK.Nädal" uuris, kuidas häirivad tuulepargid julgeolekut

Põlendik, Kadri; Aaspõllu, Huko err.ee 2024 ["AK.Nädal" uuris, kuidas häirivad tuulepargid julgeolekut](https://www.ester.ee/record=b1240496*est)

Alalisvoolu tagasitulek - unistus või reaalsus?

Roasto, Indrek; Vinnikov, Dmitri; Blinov, Andrei; Chub, Andrii; Carvalho da Silva, Edivan Laercio Elektriala 2023 / lk. 22-25 : ill, portr https://www.ester.ee/record=b1240496*est

Alalisvooluülekande türistorventiilid. Osa 2, Terminoloogia [Võrguteavik] = Thyristor valves for high-voltage direct current (HVDC) power transmission. Part 2, Terminology (IEC 60700-2:2016+IEC 60700-2:2016/AMD1:2021)

2022 https://www.ester.ee/record=b5485873*est

Alalisvooluülekande türistorventiilid. Osa 2, Terminoloogia [Võrguteavik] = Thyristor valves for high-voltage direct current (HVDC) power transmission. Part 2, Terminology (IEC 60700-2:2016)

2020 https://www.ester.ee/record=b5329543*est

Alalisvooluülekanne [Võrguteavik] : sõnastik = High-voltage direct current (HVDC) transmission : vocabulary (IEC 60633:2019)

2020 https://www.ester.ee/record=b5307917*est

Aleksander Kilk

Kilk, Aleksander Nõukogude aja mesindus : mesinike meenutusi 2022 / lk. [78]-107 : fot https://www.ester.ee/record=b5508122*est

Aleksander Kilk: ülikooli õhkkond teeb vabaks!

Kilk, Aleksander Mente et Manu 2025 / lk. 6-7 : fot https://www.ester.ee/record=b1242496*est

Alusteaduste aastale pandi punkt

Vaimann, Toomas; Abner, Erik Eesti Teaduste Akadeemia sõnas ja pildis 2023 2024 / lk. 65-67 : fot

https://www.ester.ee/record=b5054043*est

Ameliorated quantum class topper optimization to solve economic load dispatch problems

Gupta, Pradeep Kumar; Kumari Gupta, Anju; Tuttleberg, Kaur; Kilter, Jako 2024 3rd International Conference on Energy Transition in the Mediterranean Area (SyNERGY MED) 2024 / 5 p <https://doi.org/10.1109/SyNERGYMED62435.2024.10799422>

An enhancement of the driver distraction detection and evaluation method based on computational intelligence algorithms

Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard 2018 IEEE 16th International Conference on Industrial Informatics (INDIN 2018) : Porto, Portugal, 18-20 July 2018 2018 / p. 201-206 : ill <https://doi.org/10.1109/INDIN.2018.8472045>

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 [Article collection metrics at Scopus](#) [Article at Scopus](#)

An indirect model predictive current control (CCS-MPC) for grid-connected single-phase three-level NPC quasi-Z-source PV inverter

Pires Pimentel, Sergio 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 29-30 : ill https://www.ester.ee/record=b5183874*est

An interleaved ZVS high step-up converter for renewable energy systems applications

Nouri, Tohid; Branch, Sari; Shaneh, 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 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](#)

Analysing the influence of temperature and pressure on corona loss of 330kV overhead transmission line

Gupta, Pradeep Kumar 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 79-80 : ill https://www.ester.ee/record=b5570906*est

Analysis and application of light-technical parameters to assure pedestrian safety on roadway crossings with additional

lighting

Varjas, Toivo; Armas, Jelena; **Rosin, Argo** 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 148-151 : ill http://www.ester.ee/record=b4650094*est

Analysis and comparison of high-frequency link converter topologies

Korkh, Oleksandr 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 156-161 : ill http://ise.elnet.ee/record=b2950098~S2*est

Analysis and design of asymmetric quad-active-bridge converter

Chub, Andrii; Costa, Levy; Liserre, Marco IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society : proceedings : China National Convention Center, Beijing, China, 29. October - 01. November, 2017 2017 / p. 5367-5372 : ill <https://doi.org/10.1109/IECON.2017.8216930>

Analysis and optimization of the provision of reactive power by nanogrids in a low voltage network

Helguero Cruz, Jorge Luis 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 155-156 https://www.ester.ee/record=b5291755*est <https://www.digar.ee/viewer/en/nlib-digar:425642/361332/page/201>

Analysis and static mode optimization of simultaneous inductive and capacitive coupled wireless power transfer system

Shevchenko, Viktor; Pakhaliuk, Bohdan; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Strzelecki, Ryszard; Khomenko, Maksym 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 5 p <https://doi.org/10.1109/RTUCON60080.2023.10413112>

Analysis of a three-phase induction motor using the dynamic state space model

Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar** 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 65-69 : ill http://ise.elnet.ee/record=b2950017~S2*est

Analysis of advanced passive heatsinks for electrical machines enabled by additive manufacturing

Sarap, Martin; **Kallaste, Ants**; **Shams Ghahfarokhi, Payam**; **Vaimann, Toomas** 2023 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings 2023 / 6 p. : ill <https://doi.org/10.1109/WEMDCD55819.2023.10110940>

Analysis of black start strategies for microgrids with renewable distributed generation

Armstorfer, Andreas; Biechl, Helmuth; **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 broken rotor bar diagnostic techniques for inverter fed induction motor faults

Sardar, Muhammad Usman 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 39-40 : ill https://www.ester.ee/record=b5570906*est

Analysis of building sensor data to explain the experienced indoor room temperature

Crasta, Cletus J. 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 211-212 : ill https://www.ester.ee/record=b5183874*est

Analysis of common mode and rapidly varying voltage profile on stator current harmonics of an inverter-fed induction motor

Sardar, Muhammad Usman; **Vaimann, Toomas**; **Kütt, Lauri**; **Kallaste, Ants**; **Asad, Bilal**; **Kudelina, Karolina**; **Akbar, Siddique** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p. : ill <https://doi.org/10.1109/RTUCON60080.2023.10413067>

Analysis of consumer energy flexibility and applicability for power system

Metsik, Merilin; **Rosin, Argo**; **Maask, Vahur**; **Agabus, Hannes** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830882>

Analysis of cost function composition based on the horizon time prediction of an indirect MPC current control in single-phase grid-connected PV inverters

Pimentel, Sergio Pires; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Stepenko, Serhii** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982377>

Analysis of design requirements and optimization possibilities of partial power converter for photovoltaic string applications in DC microgrids

Chub, Andrii; Hassanpour, Naser; Yadav, Neelesh; Jalakas, Tanel; Blinov, Andrei; Vinnikov, Dmitri IEEE Access 2024 / p. 14605-14619 <https://doi.org/10.1109/ACCESS.2024.3354375> [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; Rasilu, 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 harmonic current stability and summation of LED lamps

Jarkovoi, Marek; Iqbal, Muhammad Naveed; Kütt, Lauri 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 8 p. : ill <https://doi.org/10.1109/PQ.2019.8818237>

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 insulation degradation behavior based on partial discharge measurement

Choudhary, Maninder 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 71-72 : ill https://www.ester.ee/record=b5570906*est

Analysis of microgrid configuration effects on energy efficiency

Peterson, Kristjan; Ahmadihangar, Roya; Shabbir, Noman; Vinnal, Toomas 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill <https://doi.org/>

Analysis of oscillation suppression methods in the AC-AC stage of high frequency link converters

Korkh, Oleksandr; Blinov, Andrei; Vinnikov, Dmitri 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982259>

Analysis of possible faults and diagnostic methods of the Cartesian industrial robot

Autsou, Siarhei; Rassõlkin, Anton; Vaimann, Toomas; Kudelina, Karolina Proceedings of the Estonian Academy of Sciences 2022 / p. 227-24 : ill <https://doi.org/10.3176/proc.2022.3.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analysis of series partial power converter in transient and steady-state operation modes

Hassanpour, Naser 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 51-52 https://www.ester.ee/record=b5504019*est

Analysis of the applicability of PMU measurements for power quality assessment

Löper, Mari; Trummal, Tarmo; Kilter, Jako 2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia and Herzegovina, October 21-25, 2018 : proceedings 2018 / 6 p <https://doi.org/10.1109/ISGTEurope.2018.8571618>

Analysis of the local and global forces acting on the coil structure of a modular slotless permanent magnet generator

Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar; Shams Ghahfarokhi, Payam; Rassõlkin, Anton Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 9-14 : ill <https://doi.org/10.2478/ecce-2019-0002>

Analysis of the use of supercapacitors and batteries as energy storage elements for off-grid hybrid photovoltaic inverters

Gonschorowski, E.; Cardoso, Rafael; **Carvalho da Silva, Edivan Laercio**; de Oliveira Stein, Carlos Marcelo; Carati, Emerson Giovanni; Denardin, Gustavo Weber; da Costa, Jean Patric 2023 IEEE 8th Southern Power Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 7 p <https://doi.org/10.1109/SPEC56436.2023.10407182>

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; Drovtar, 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 transmission network short cable line sheath bonding methods

Kangro, Triin; Kilter, Jako 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / 6 p.: ill <https://doi.org/10.1109/EEEIC.2018.8493944>

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/ICIT45562.2020.9067153> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

An analytic model for fault diagnosis in power distribution systems considering unreliable alarms

Wang, Chongyu; Pang, Kaiyuan; Zhang, Yong; **Wen, Fushuan; Palu, Ivo**; Xiong, Wen; Chen, Minghui; Shang, Huiyu 2020 IEEE Power & Energy Society General Meeting (GM 2020) 2020 / 5 I <https://doi.org/10.1109/PESGM41954.2020.9281468>

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 model including rotor eccentricity for bearingless synchronous reluctance motors

Saarakkala, Seppo E.; Mukherjee, Victor; **Belahcen, Anouar** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 1388-1394 : ill <https://doi.org/10.1109/ICELMACH.2018.8506892>

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](#)

Andmete- ja andmesidekvaliteedi suurendamine faasimõõteseadmete (PMU) lisamisega Eesti ülekandevõrgu alajaamadesse

Kilter, Jako; Leinakse, Madis 2022

Andrii Chub: teadustöö on põnevam kui töö ettevõttes

Chub, Andrii Mente et Manu 2022 / lk. 12-17 : fot https://www.ester.ee/record=b1242496*est

ANN-LSTM based tool for photovoltaic power forecasting

Zahraoui, Younes; Korõtko, Tarmo; Mekhilef, Saad; Rosin, Argo 2024 4th International Conference on Smart Grid and Renewable Energy (SGRE) : proceedings 2024 / 6 p. : ill <https://doi.org/10.1109/SGRE59715.2024.10428969>

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](#)

Anomaly detection, classification and identification Tool (ADCIT)

Asefi, Sajjad; Mitrovic, Mile; Cetenovic, Dragan; Levi, Victor; Gryazina, Elena; Terzija, Vladimir Software impacts 2023 / art. 100465, 3 p. : ill <https://doi.org/10.1016/j.simpa.2023.100465> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application and control of bidirectional T-type converter in hybrid bipolar AC/DC microgrid

Sassonker Elkayam, Moria; Vinnikov, Dmitri 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 5 p <https://doi.org/10.1109/ICDCM63994.2025.11144720>

Application of active thermography for the study of losses in components produced by laser powder Bed fusion

Quercio, Michele; Poskovic, Emir; Franchini, Fausto; Fracchia, Elisa; Ferraris, Luca; Canova, Aldo; Tenconi, Alberto; **Tiismus, Hans; Kallaste, Ants** Journal of magnetism and magnetic materials 2024 / art. 171796 <https://doi.org/10.1016/j.jmmm.2024.171796> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of artificial intelligence in smart kitchen

Vu, Trieu Minh; Khanna, Riva International Journal of Innovative Technology and Interdisciplinary Sciences : IJTIS 2018 / p. 1-8 : ill

<https://doi.org/10.1515/IJTIS.2018.1.1.1-8>

Application of boundary conduction mode control in galvanically isolated buck-boost converter

Mashinchi Maheri, Hamed; Vinnikov, Dmitri; Chub, Andrii 3rd International Conference on Smart Grid and Renewable Energy (SGRE) 2022 / p. 1-6 <https://doi.org/10.1109/SGRE53517.2022.9774105>

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 hyperspectral imaging in waste paper sorting

Juurma, Märt; Sillat, Mari-Liis; Tamre, Mart 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 197-200 : ill http://www.ester.ee/record=b4650094*est

Application of Leddar to optimize image processing operations

Mets, Oliver; Piigli, Ervin 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 209-210 : ill http://www.ester.ee/record=b4650094*est

Application of transfer learning for instrument transformer condition monitoring

Asefi, Sajjad; Kilter, Jako; Akroud, Nabil; Hurtado, Aritz; Gilbert, Ian; Orue, Inaki 2024 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2024 / 4 p <https://doi.org/10.1109/Diagnostika61830.2024.10693903>

Applied machine learning methods in microgrid simulations

Häring, Tobias 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 151-152 : ill https://www.ester.ee/record=b5291755*est

Applying reinforcement learning method for real-time energy management

Borhan Dayani, Aida; Fazlollahabadi, Hamed; Ahmadihangar, Roya; Rosin, Argo 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) 2019 / 5 p. : ill <https://doi.org/10.1109/EEEIC.2019.8783766>

Argo Rosin : energeetika vajab operatiivset ja arukat tegutsemist

Rosin, Argo err.ee 2022 [Argo Rosin: energeetika vajab operatiivset ja arukat tegutsemist](#)

Argo Rosin, Imre Drovtar: Rohepöore transpordis on utoopiline [Võrguväljaanne]

Rosin, Argo; Drovtar, Imre postimees.ee 2021 ["Argo Rosin, Imre Drovtar: Rohepöore transpordis on utoopiline"](#)

Argo Rosin: ilma insenerideta jääks maailm pimedusse

Rosin, Argo delfi.ee 2025 <https://arileht.delfi.ee/artikkel/120374509/argo-rosin-ilma-insenerideta-jaaks-maailm-pimedusse>

Argo Rosin: kas rohepöore või rohepöörasus? [Võrguväljaanne]

Rosin, Argo postimees.ee 2021 ["Argo Rosin: kas rohepöore või rohepöörasus?"](#)

Argo Rosin: kuidas kilplased seakisatööstuse abil hirne peletasid [Võrguväljaanne]

Rosin, Argo err.ee 2021 / fot [Argo Rosin: kuidas kilplased seakisatööstuse abil hirne peletasid "](#)

Argo Rosin: Kuidas kilplased vaimult rikkaks ja õnnelikuks said

Rosin, Argo Postimees 2018 / lk. 15 [Kuidas kilplased vaimult rikkaks said](#)

Argo Rosin: rohepöore, ülikool ja mängurlus [Võrguväljaanne]

Rosin, Argo err.ee 2021 ["Argo Rosin: rohepöore, ülikool ja mängurlus"](#)

Argo Rosin: teadmiste roll töö(järg)se ühiskonna kujunemisel

Rosin, Argo err.ee 2024 [Argo Rosin: teadmiste roll töö\(järg\)se ühiskonna kujunemisel](#)

Argo Rosin: tõsiroheline pöore vajab rohkem insenere [Võrguväljaanne]

Rosin, Argo aripaev.ee 2021 ["Argo Rosin: tõsiroheline pöore vajab rohkem insenere"](#)

Artificial Hummingbird Algorithm For Optimal Reconfiguration Of Electrical Distribution networks

Zahraoui, Younes; Bouhanik, Anes; Korotko, Tarmo; Rosin, Argo; Mekhilef, Saad 2024 IEEE 22nd Mediterranean Electrotechnical Conference (MELECON) 2024 / p. 225-229 <https://doi.org/10.1109/MELECON56669.2024.10608525>

Artificial intelligence driven approaches for fault prognostics of electrical machines using vibration spectrum analysis = Tehisintellektil põhinevad lähenemisviisid elektrimasinate rikete prognoosimiseks vibratsioonispektri analüüsi abil
Kudelina, Karolina 2024 https://www.ester.ee/record=b5685285*est <https://doi.org/10.23658/taltech.28/2024>
<https://digikogu.taltech.ee/et/Item/229f1bbb-6178-414a-9e2e-2c98a30a783c>

Artificial intelligence in monitoring and diagnostics of electrical energy conversion systems

Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Pomarnacki, Raimondas; Belahcen, Anouar; Van Khang, Hyunh 2020
27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia,
January 27-30, 2020 2020 / 4 p <https://doi.org/10.1109/IWED48848.2020.9069566>

Artificial Intelligence in the hierarchical control of ac, dc and hybrid ac/dc microgrids : A review

Gutiérrez-Escalona, J.; Roncero-Clemente, C.; Husev, Oleksandr; Matiushkin, Oleksandr; Blaabjerg, Frede IEEE Access 2024 /
p. 157227-157246 <https://doi.org/10.1109/ACCESS.2024.3486382> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)
[Article at WOS](#)

Artificial Intelligence-Based Predictive Analytics for Battery Energy Storage Systems in Electric Vehicle Applications = Tehisintellektil põhinev ennustav andmeanalüüs akupõhiste energiasalvestussüsteemide jaoks elektrisõidukites

Zequera, Rolando Antonio Gilbert 2025 https://www.ester.ee/record=b5758189*est <https://digikogu.taltech.ee/et/Item/7ecb1e38-a591-47c5-b37e-7c2e901d05f1> <https://doi.org/10.23658/taltech.61/2025>

Assessing uncertainty in the optimal placement of distributed generators in radial distribution feeders

Gautam, Rupesh; Khadka, Srijan; Malla, Tanus Bikram; Bhattarai, Abhinav; Shrestha, Ashish; Gonzalez-Longatt, Francisco Electric
power systems research 2024 / art. 110249, 13 p. : ill <https://doi.org/10.1016/j.eprsr.2024.110249> [Journal metrics at Scopus](#) [Article at](#)
[Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessment of corona loss performance on aging transmission lines using PMU measurements

Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako Energy reports 2023 / p. 215-219 <https://doi.org/10.1016/j.egyr.2023.09.160>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessment of data acquisition system for forecasting temperature and solar irradiation

Zahraoui, Younes; Korõtko, Tarmo; Mekhilef, Saad; Alhamrouni, Ibrahim 2023 International Conference on Engineering
Technology and Technopreneurship (ICE2T) 2024 / p. 408-413 <https://doi.org/10.1109/ICE2T58637.2023.10540516>

Assessment of higher harmonics influence to PMU measurement accuracy

Löper, Mari; Salumäe, Uku; Kilter, Jako 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe) :
Torino, Italy 26-29 September 2017 : Conference Proceedings 2017 / 6 p. : ill <https://doi.org/10.1109/ISGTEurope.2017.8260271>

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 pedestrian crossings measuring parameters and implementation of new measuring methods in Estonia

Varjas, Toivo; Kuusik, Marko; Armas, Jelena; Rosin, Argo 59th Annual International Scientific Conference on Power and
Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 4 p. : ill
<https://doi.org/10.1109/RTUCON.2018.8659821>

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

Korõtko, 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](#)

Asymmetric snubberless current-fed full-bridge isolated DC-DC converters

Kosenko, Roman; Blinov, Andrei; Vinnikov, Dmitri; Chub, Andrii Scientific Journal of Riga Technical University. Electrical,
control and communication engineering 2018 / p. 5-11 : ill <https://doi.org/10.2478/ecce-2018-0001>

Automatic position detection and transmitting activation of dynamic wireless power transfer system with air capacitor

Pakhaliuk, Bohdan; Husev, Oleksandr; Shevchenko, Viktor; Kroics, Kaspars; Stepins, Deniss; Strzelecki, Ryszard Wireless
Power Week (WPW) : Proceedings 2022 / p. 487-491 <https://doi.org/10.1109/WPW54272.2022.9853972>

Automatic tolerance analysis of permanent magnet machines with encapsulated FEM Models using Digital-Twin-Distiller

Orosz, Tamas; Gadó, Krisztián; Katona, Mihály; Rassõlkin, Anton Processes 2021 / art. 2077, p. 1-15 : ill
<https://doi.org/10.3390/pr9112077> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Autonomous last mile shuttle ISEAUTO for education and research

Sell, Raivo; Leier, Mairo; Rassõlkin, Anton; Ernits, Juhan-Peep International journal of artificial intelligence and machine learning
2020 / p. 18-30 <https://doi.org/10.4018/IJAIML.2020010102>

Autonomous vehicle shuttle in Smart City testbed

Sell, Raivo; Soe, Ralf-Martin; Wang, Ruxin; Rassõlkin, Anton Intelligent System Solutions for Auto Mobility and Beyond : Advanced Microsystems for Automotive Applications 2020 2021 / p. 143–157 https://doi.org/10.1007/978-3-030-65871-7_11

Auvere 2 asemel tuleks elektri tootmine hajutada üle Eesti

Kuhi-Thalfeldt, Reeli postimees.ee 2022 [Auvere 2 asemel tuleks elektri tootmine hajutada üle Eesti](#)

Auvere elektrijaama töökindlus sai taas löögi. Pakun lahenduse

Kuhi-Thalfeldt, Reeli postimees.ee 2022 [Auvere elektrijaama töökindlus sai taas löögi. Pakun lahenduse](#)

Avalike elektrivõrkude pingetunnustused [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks

2019 https://www.ester.ee/record=b5273602*est

Avalike elektrivõrkude pingetunnustused [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks

2019 https://www.ester.ee/record=b5273643*est

Avalike elektrivõrkude pingetunnustused [Võrguteavik] = Voltage characteristics of electricity supplied by public electricity networks

2019

Awareness of BSR municipalities about sustainable urban lighting and green public procurements

Korõtko, Tarmo; Rosin, Argo; Varjas, Toivo; Ahmadihangar, Roya 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 9-12 June 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/EEEIC/ICPSEurope49358.2020.9160761>

Axial synchronous magnetic coupling modeling and printing with selective laser melting

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton; Belahcen, Anouar 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCon), 7-9 October 2019 : conference proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/RTUCon48111.2019.8982344>

Axially asymmetric design for additive manufacturing of synchronous reluctance machines

Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p <https://doi.org/10.1109/IEMDC55163.2023.10238995>

Background for development methodology for creating the digital twin for propulsion drive of an electric vehicle

Rjabtšikov, Viktor 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 27-28 : ill https://www.ester.ee/record=b5457278*est

Back-to-back energy router based on common-ground inverters

Azizi, Mohammadreza; Rahimpour, Saeed; Husev, Oleksandr; Veligorskyi, Oleksandr 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / p. 1-6 <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227480>

Ballastseadist sisaldavad üldtarbevalgustuse valgusdiodlambid pingega üle 50 V [Võrguteavik] : ohutusnõuded = Self-ballasted LED-lamps for general lighting services by voltage > 50 V : safety specifications (IEC 62560:2011, modified+corrigendum Jan. 2012+A1:2015)

2019 https://www.ester.ee/record=b5233464*est

Ballastseadist sisaldavad üldtarbevalgustuse valgusdiodlambid pingega üle 50 V [Võrguteavik] : ohutusnõuded = Self-ballasted LED-lamps for general lighting services by voltage > 50 V : safety specifications (IEC 62560:2011, modified+corrigendum Jan. 2012+A1:2015)

2019 https://www.ester.ee/record=b5234038*est

Balmorel open source energy system model

Wiese, Frauke; Bramstoft, Rasmus; Koduver, Hardi; Pizarro Alonso, Amalia Energy strategy reviews 2018 / p. 26–34 : ill <https://doi.org/10.1016/j.esr.2018.01.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Balti LFC ploki vajalike sageduse hoidmise ja taastamise reservide dimensioneerimine suurenenud taastuenergiaallikate lisandumise korral

Leinakse, Madis; Kilter, Jako 2023

Balti riigid peaksid jääma ühendusse ikka Venemaa energiasüsteemiga

Raukas, Anto; Valdma, Mati Eesti Päevaleht 2017 / lk. 12 <https://epl.delfi.ee/artikkel/79946242/balti-riigid-peaksid-jaama-uhendusse-ikka>

Battery energy storage systems modelling based on remaining useful lifetime through regression algorithms and binary classifiers

Zequera, Rolando Antonio Gilbert 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 93-94 : ill https://www.ester.ee/record=b5570906*est

Battery size optimization with customer PV installations and domestic load profile

Shabbir, Noman; Kütt, Lauri; Astapov, Victor; Jawad, Muhammad; Allik, Alo; **Husev, Oleksandr** IEEE Access 2022 / p. 13012-13025 : ill <https://doi.org/10.1109/ACCESS.2022.3147977> [Journal metrics 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 at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bearing fault analysis of BLDC motor for electric scooter application

Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Rassõlkin, Anton; Kallaste, Ants; Lukichev, Dmitry Designs 2020 / art. 42, 18 p. : ill <https://doi.org/10.3390/designs4040042> [Journal metrics at Scopus](#) [Article at Scopus](#)

Bearing fault analysis of BLDC motor intended for electric scooter application

Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants 2021 IEEE 13th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED) 2021 / p. 427-432 <https://doi.org/10.1109/SDEMPED51010.2021.9605519>

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

Bidding strategy of a microgrid considering risk interdependence between electricity and carbon markets

Yan, Yuan; Lin, Zihan; **Wen, Fushuan; Palu, Ivo** 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 5 p. : ill <https://doi.org/10.1109/PESGM40551.2019.8974139>

Bidirectional DC circuit breaker with improved performance during commissioning and reclosing

Pogulaguntla, Aditya; Raghavendra I, Venkata; Banavath, Satish Naik; **Chub, Andrii;** Sreekanth, Thamballa; Krishnamoorthy, Harish Sarma 24th European Conference on Power Electronics and Applications (EPE'22 ECCE Europe) 2022 / p. P1-P9 <https://ieeexplore.ieee.org/document/9907667>

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

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

Bidirectional DC-DC converter with extended ZVS/ZCS range for storage applications

Blinov, Andrei 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 31-32 : ill https://www.ester.ee/record=b5183874*est

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

Bidirectional isolated current-fed soft-switching secondary-modulated DC-DC converters = Isoleeritud kahesuunalised voolutoitelised pehmelülituse ja sekundaarmodulatsiooniga alalisvoolumuundurid

Kosenko, Roman 2019 <https://digi.lib.ttu.ee/i/?11237>

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

Bidirectional isolated ZVS DC-DC converter with auxiliary active switch for high-power energy storage applications

Ivakhno, Volodymyr; Zamaruev, Volodymyr; Styshlo, Bogdan; **Kosenko, Roman; Blinov, Andrei** 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings

Bidirectional operation of the power electronic interface for nearly-zero energy buildings

Roasto, Indrek; Jalakas, Tanel; Rosin, Argo 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 2456-2464 : ill <https://ieeexplore.ieee.org/document/8515405>

Bidirectional soft switching current source DC-DC converter for residential DC microgrids

Blinov, Andrei; Kosenko, Roman; Chub, Andrii; Vinnikov, Dmitri IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6059-6064 : ill <https://doi.org/10.1109/IECON.2018.8591103>

Bidirectional soft-switching current-fed flyback converter with natural clamping for low voltage battery energy storage applications

Kosenko, Roman 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 133-137 : ill http://www.ester.ee/record=b4650094*est

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

Bidirectional solid-state DC circuit breaker for the protection of residential and Commercial DC buildings

Aditya, P.; Yagna, V.; Banoth, T.; Chub, Andrii; Banavath, Satish Naik 2023 IEEE 8th Southern Power Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 6 p <https://doi.org/10.1109/SPEC56436.2023.10407460>

Bidirectional SSCB for residential DC microgrids with reduced voltage and current stress during fault interruption

Aditya, P.; Banavath, Satish Naik; Lidozzi, Alessandro; Chub, Andrii; Vinnikov, Dmitri 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227379>

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

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

Bidirectional wide voltage range series-parallel resonant buck-boost DC-DC converter

Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 5 p <https://doi.org/10.1109/PEMC61721.2024.10726369>

Binary logic vs. fuzzy logic techniques for tuning robust controllers

Vodovozov, Valery 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 49-50 https://www.ester.ee/record=b5183874*est

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](#)

Bivariate stochastic model of current harmonic analysis in the low voltage distribution grid

Iqbal, Muhammad Naveed; Kütt, Lauri; Daniel, Kamran; Jarkovoi, Marek; Asad, Bilal; Shabbir, Noman Proceedings of the Estonian Academy of Sciences 2021 / p. 190-206 : ill <https://doi.org/10.3176/proc.2021.2.08> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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](#)

Blended antilock braking system control method for all-wheel drive electric sport utility vehicle

Aksjonov, Andrei; Vodovozov, Valery; Augsburg, Klaus; Petlenkov, Eduard Electrimacs 2019 : Selected Papers, Vol. 1 2020 / p. 229-241 https://doi.org/10.1007/978-3-030-37161-6_17 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Blockchain for EU electricity market

Crasta, Cletus J.; Agabus, Hannes; Palu, Ivo 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 9-12 June 2020 : proceedings 2020 / 6 p <https://doi.org/10.1109/EEEIC/ICPSEurope49358.2020.9160575>

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 / p. 1528-1532 : ill <https://doi.org/10.1109/APEC.2018.8341219> [Conference proceedings at Scopus](#) [Article at Scopus](#) [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](#)

Broken rotor bar fault detection using machine learning: Optimal frequency resolution

Koveshnikov, Semen; Bouharrouiti, Nada El; Kudelina, Karolina; Naseer, Muhammad Usman; Vaimann, Toomas; Belahcen, Anouar 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700228>

Broken rotor bar fault diagnostic of inverter fed induction motor using FFT, Hilbert and Park's vector approach

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 / p. 2352-2358 : ill <https://doi.org/10.1109/ICELMACH.2018.8506957>

Buck-boost resonant Z-source parital power converter

Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri 3rd International Conference on Smart Grid and Renewable Energy (SGRE) 2022 / p. 1-6 <https://doi.org/10.1109/SGRE53517.2022.9774095>

Buck-boost unfoldr inverter as a novel solution for single-phase PV systems

Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri; Roncero, Carlos; Romero-Cadaval, Enrique; Kütt, Lauri IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6116-6121 : ill <https://doi.org/10.1109/IECON.2018.8592899>

Bussi- ja autoehitusest, lisaks pisut projekteerimisest

Tiidemann, Tiit Inseneeria 2017 / lk. 60-65 : ill https://artiklid.elnet.ee/record=b2818086*est

Calculation of the traction effort of ISEAUTO self-driving vehicle

Rassõlkin, Anton; Gevorkov, Levon; Vaimann, Toomas; Kallaste, Ants; Sell, Raivo 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-5 : ill <https://doi.org/10.1109/IWED.2018.8321397>

Campulse - TalTechi digilinnaku süda

Agabus, Hannes Mente et Manu 2022 / lk. 34-35 : ill https://www.ester.ee/record=b1242496*est

Campulse toob ülikooli energiaandmed kokku

Agabus, Hannes Mente et Manu 2021 / lk. 32 : ill [Mente et Manu 2/2021](https://www.ester.ee/record=b1242496*est)

Can electrical phenomena be explained with the concept of an "electric family tree"?

Järvik, Jaan 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 45-46 : ill https://www.ester.ee/record=b5183874*est

Capacitor coupled voltage transformer defect identification in the presence of tap changer

Asefi, Sajjad; Leinakse, Madis; Kilter, Jako; Landsberg, Mart IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p <https://doi.org/10.1109/isgteurope56780.2023.10408138>

Capacitor coupled voltage transformer inaccuracy effect on circuit breaker operation

Asefi, Sajjad; Andreesen, Guido; Kilter, Jako; Landsberg, Mart 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p <https://doi.org/10.1109/EPE58302.2023.10149279>

Capacitor coupled voltage transformer inaccuracy modeling

Asefi, Sajjad 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 / p. 73-74 : ill https://www.ester.ee/record=b5570906*est

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](#)

Case study of non-linear PV inverter devices attached to the LV distribution network

Vinnal, Toomas; Puusepp, Hardi; Shabbir, Noman; Kütt, Lauri; Iqbal, Muhammad Naveed Agronomy research 2020 / p. 2639–2652 : ill <https://doi.org/10.15159/AR.20.233> <https://dspace.emu.ee/xmlui/handle/10492/5955> [Journal metrics at Scopus](#) [Article at](#)

A case study of optimising energy storage dispatch : convex optimisation approach with degradation considerations

Vaicys, Jonas; Gudžius, Saulius; Jonaitis, Audrius; Rackiene, Roma; **Blinov, Andrei**; Pefitsis, Dimosthenis Journal of energy storage 2024 / art. 112941 <https://doi.org/10.1016/j.est.2024.112941> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Case study of outdoor digital screens effect on drivers

Parker, Martin; Rosin, Argo; Antov, Dago; Varjas, Toivo; Möller, Taavi; Gorislavskaja, Inna 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 7 p <https://doi.org/10.1109/RTUCON62997.2024.10830768>

Case study of supplementary PMSM for low-speed wind turbine

Poliakov, Nikolai; Vorobev, Konstantin; **Demidova, Galina; Rassölkin, Anton**; Ramensky, Dmitry 2021 XVIII International Scientific Technical Conference Alternating Current Electric Drives (ACED) : proceedings 2021 / 5 p. : ill <https://doi.org/10.1109/ACED50605.2021.9462253>

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](#)

Cell-level power supply for high-voltage modular multilevel converters [Electronic resource]

Blinov, Andrei; Norrga, Staffan; Tibola, Gabriel; Velotto, Giovanni 19th European Conference on Power Electronics and Application : EPE'17 ECCE Europe : September 11-14, 2017, Warsaw, Poland 2017 / p. P1-P10 : ill. [USB] <https://doi.org/10.23919/EPE17ECCEurope.2017.8099361>

Challenges of academic mobility in view of students inclusion in engineering education

Raud, Zoja; Vodovozov, Valery Proceedings of the 2020 IEEE Global Engineering Education Conference (EDUCON) : Engineering Education for the Future in a Multicultural and Smart World, 27-30 April, 2020, Porto, Portugal 2020 / p. 139-144 : ill <https://doi.org/10.1109/EDUCON45650.2020.9125238>

Challenges of active learning in a view of integrated engineering education

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Education Sciences 2021 / art. 43 <https://doi.org/10.3390/educsci11020043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Challenges of additive manufacturing of electrical machines

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Rassölkin, Anton; Vaimann, Toomas 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. 44-48 : ill <https://doi.org/10.1109/DEMPED.2019.8864850>

Challenges of smart grids implementation

Ahmadihangar, Roya; Rosin, Argo; Palu, Ivo; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 1-15 https://doi.org/10.1007/978-981-15-4627-3_1 [Journal metrics at Scopus](#) [Article at Scopus](#)

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](#)

A chance-constrained decentralized operation of multi-area integrated electricity–natural gas systems with variable wind and solar energy

Qi, Feng; Shahidehpour, Mohammad; Li, Zhiyi; **Wen, Fushuan**; Shao, Changzhen IEEE Transactions on sustainable energy 2020 / p. 2230-2240 <https://doi.org/10.1109/TSTE.2019.2952495>

Characterisation of 1200 V RB-IGBTs with different irradiation levels under hard and soft switching conditions

Blinov, Andrei; Korkh, Oleksandr; Vinnikov, Dmitri; Waind, Peter 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 1382-1391 : ill <https://ieeexplore.ieee.org/document/8515535>

Characterisation of 1200 V reverse-blocking IGBTs for naturally commutated HF-link inverter

Zinchenko, Denys; **Korkh, Oleksandr; Blinov, Andrei**; Waind, Peter; **Vinnikov, Dmitri** 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 382-387 : ill <https://doi.org/10.1109/UKRCON.2019.8879900>

Characteristic pulse pattern features of different types of partial discharge sources in power cables

Kiitam, Ivar; Shafiq, Muhammad; Taklaja, Paul; Parker, Martin; Palu, Ivo; Kütt, Lauri IEEE Power Engineering Society Conference and Exposition in Africa, PowerAfrica, IEEE PES/IAS PowerAfrica, Nairobi, Keenia, 23-27 Aug 2021 : proceedings 2021 / 5 p. : ill <https://doi.org/10.1109/PowerAfrica52236.2021.9543366>

Characterization of corona and internal partial discharge under increasing electrical stress using time domain analysis
Shafiq, Muhammad; **Kiitam, Ivar; Taklaja, Paul;** Hussain, Amjad; **Kütt, Lauri;** Kauhaniemi, Kimmo 2020 IEEE Electrical Insulation Conference : EIC 2020 2020 / vol. 217–220 <https://doi.org/10.1109/EIC47619.2020.9158701>

Characterization of high-frequency impedance-based models for transient terminal overvoltage estimation in cable-fed motor drive systems

Sardar, Muhammad Usman; Vaimann, Toomas; Kütt, Lauri; Asad, Bilal; Kallaste, Ants; Kudelina, Karolina 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p <https://doi.org/10.1109/ICEM60801.2024.10700495>

Characterizing energy flexibility of buildings with electric vehicles and shiftable appliances on single building level and aggregated level

Azizi, Elnaz; Ahmadiyahangar, Roya; Rosin, Argo; Bolouki, Sadegh Sustainable cities and society 2022 / art. 103999 <https://doi.org/10.1016/j.scs.2022.103999> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Charge Diagnostics and State Estimation of Battery Energy Storage Systems Through Transformer Models

Zequera, Rolando Antonio Gilbert; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants IEEE Access 2025 / p. 17733–17744 : ill <https://doi.org/10.1109/ACCESS.2025.3532858>

Charging infrastructure planning for electric vehicle in India : present status and future challenges

Sachan, Sulabh; **Singh, Praveen Prakash** Regional Sustainability 2022 / p. 335 - 345 <https://doi.org/10.1016/j.regsus.2022.11.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Circulation centrifugal pump with variable speed drives and minimal electricity consumption

Vodovozov, Valery; Gevorkov, Levon; Raud, Zoja 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 / p. 334-339 : ill <http://dx.doi.org/10.1109/CPE.2017.7915193>

Class topper optimization approach to solve non-convex combined heat and power economic dispatch problems in power systems

Gupta, Pradeep Kumar; Tuttelberg, Kaur; Kilter, Jako 2024 IEEE International Conference on Power and Energy (PECon) 2024 / p. 179-184 <https://doi.org/10.1109/PECon62060.2024.10827527>

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

Zahedi, Rafi; Ranjbaran, Parisa; Gharehpetian, Gevork B.; Mohammadi, Fazel; **Ahmadiyahangar, 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](#)

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;** Lytvin, 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](#)

Closing the loop with automated adaptive disassembly

Schmitt, R. H.; Göppert, A.; Sohnius, F.; Frye, M.; Balzereit, F.; Elsner, J.; Briele, K.; Bergs, L.; Bitter-Krahe, J.; Drechsel, M.; **Häring, Tobias** Empower Green Production: Conference proceedings : AWK'23, May 11-12, 2023 2023 / p. 61-89 : ill <https://doi.org/10.24406/publica-943>

Clustering and outlier analysis for key performance indicators in battery energy storage systems applications

Zequera, Rolando Antonio Gilbert; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227417>

Clustering of Transmission System Loads Based on Monthly Load Class Energy Consumptions

Leinakse, Madis; Kilter, Jako 2020 21st International Scientific Conference on Electric Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 / 6 p. : ill <https://doi.org/10.1109/EPE51172.2020.9269197>

Clustering-based penalty signal design for flexibility utilization

Rosin, Argo; Ahmadiyahangar, Roya; Azizi, Elnaz; Sahoo, Subham; **Vinnikov, Dmitri;** Blaabjerg, Frede; Dragicevic, Tomislav; Bolouki, Sadegh IEEE Access 2020 / p. 208850-208860 <https://doi.org/10.1109/ACCESS.2020.3038822> [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](#)

Coil design for wireless power transfer with series-parallel compensation

Shevchenko, Viktor; **Husev, Oleksandr**; Pakhaliuk, Bohdan; Karlov, Olexii; Kondratenko, Igor 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering (UKRCON) 2019 / p. 401-407 <https://doi.org/10.1109/UKRCON.2019.8879877>

Coil-to-coil efficiency of ISS-compensated inductive wireless power transfer links operating with load-independent output voltage at fixed frequency

Belenky, A.; **Chub, Andrii**; Kuperman, A. 2023 International Conference on Clean Electrical Power (ICCEP) 2023 / p. 617-621 : ill <https://doi.org/10.1109/ICCEP57914.2023.10247404>

Combined active frequency drift islanding detection method for NZEB energy router

Jalakas, Tanel; Roasto, Indrek; Najafzadeh, Mahdiyyeh 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p <https://doi.org/10.1109/RTUCON48111.2019.8982258>

Combined deterministic algorithm and metaheuristic technique for fast and accurate resolution of optimization problems

Martin, Florian; Aydin, Ugur; Sundaria, Ravi; Rasilo, Paavo; **Belahcen, Anouar** 21st International Conference on the Computation of Electromagnetic Fields (Compumag 2017) : Daejeon, South Korea, 18-22 June 2017 2017 / p. 3-4 : ill [http://www.compumag.org/CMAG2017/\[OA1-2\]_131.pdf](http://www.compumag.org/CMAG2017/[OA1-2]_131.pdf)

Common mode voltage reduction and neutral-point voltage balance for quasi-Z-source three-level neutral-point-clamped inverters

Liu, Wenjie; Yang, Yongheng; Li, Weilin; Zhang, Xiaobin; **Husev, Oleksandr; Vinnikov, Dmitri** International Power Electronics Conference (IPEC-Himeji 2022- ECCE Asia) 2022 / p. 934-939 <https://doi.org/10.23919/IPEC-Himeji2022-ECCE53331.2022.9806905>

Common-ground energy router structure with enhanced reliability and protection = Ühise nulljuhtmega suurendatud töökindluse ja kaitsega energiaruuter

Rahimpour, Saeed 2024 <https://doi.org/10.23658/taltech.45/2024> https://www.ester.ee/record=b5694226*est <https://digikogu.taltech.ee/et/Item/520b18fc-f0a8-4a08-ade8-d3b890d253ff>

Common-mode voltage analysis and reduction for the quasi-Z-source inverter with a split inductor

Liu, Wenjie; Yang, Yongheng; Kerekes, Tamas; **Liivik, Elizaveta; Vinnikov, Dmitri**; Blaabjerg, Frede Applied sciences 2020 / art. 8713, 13 p. : ill <https://doi.org/10.3390/app10238713> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Community battery sizing for distribution level RES hosting capacity improvement

Peterson, Kristjan; Shabbir, Noman; Astapov, Victor; Kütt, Lauri; Kamran, Daniel 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p <https://doi.org/10.1109/RTUCON62997.2024.10830871>

Comparative analysis of buck-boost inverters based on unfolding circuit versus H5, H6, HERIC topologies

Matiushkin, Oleksandr; Husev, Oleksandr; Vinnikov, Dmitri; Vosoughi Kurdkandi, Naser 2022 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2022 / p. 547-552 <https://doi.org/10.1109/SPEEDAM53979.2022.9842282>

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 elektrotehnika = 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 HVAC cable metallic sheath modelling approaches for network studies

Kangro, Triin; Kilter, Jako; De Silva, Jeewantha 2018 18th International Conference on Harmonics and Quality of Power (ICHQP 2018) : Ljubljana, Slovenia, 13 – 16 May 2018 2018 / 6 p. : ill <https://doi.org/10.1109/ICHQP.2018.8378924>

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 analysis of power quality monitoring systems

Hassan, Syed Rizwan; Rehman, Ateeq Ur; **Shabbir, Noman**; Unbreen, Arooj NFC IEFER journal of engineering and scientific research 2020 / p. 19-23 <http://nijasr.com/ojs/index.php/archive/article/view/249>

Comparative analysis of qZS-based bidirectional DC-DC converter for storage energy application

Matiushkin, Oleksandr; Husev, Oleksandr; Tytelmaier, Kostiantyn; Kroics, Kaspars; Veligorskyi, Oleksandr; Zakis, Janis

Technological Innovation for Smart Systems : 8th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2017, Costa de Caparica, Portugal, May 3–5, 2017 : proceedings 2017 / p. 409-418
http://dx.doi.org/10.1007/978-3-319-56077-9_40

Comparative analysis of reliability for string and central inverter PV systems in accordance with the FMECA

Dumnic, Boris; Liivik, Elizaveta; Popadic, Bane; Blaabjerg, Frede; Milicevic, Dragan; Katic, Vladimir 2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems (PEDG), 28 Sept.-1 Oct. 2020, Dubrovnik, Croatia 2020 / p. 591-596 <https://doi.org/10.1109/PEDG48541.2020.9244404>

Comparative analysis of ZigBee based Wireless Sensor Networks (WSNs)

Shabbir, Noman; Hassan, Syed Rizwan; Iqbal, Muhammad Naveed; Kütt, Lauri; Unbreen, Arooj International journal of recent technology and engineering 2019 / p. 980-984 : ill <https://www.ijrte.org/wp-content/uploads/papers/v7i6s/F04000376S19.pdf>

Comparative Analysis of ZigBee Based Wireless Sensor Networks (WSNs)

Shabbir, Noman; Hassan, Syed Rizwan; Iqbal, Muhammad Naveed; Kütt, Lauri Proceeding of the 4th International Conference on Recent Trends in Computer Science and Electronics 2019 2019 / p. 115 http://www.rtcse.org/RTCSE_2019.pdf

Comparative analysis of zigbee based wireless sensor networks (WSNs)

Shabbir, Noman; Hassan, Syed Rizwan; Iqbal, Muhammad Naveed; Kütt, Lauri; Unbreen, Arooj International journal of recent technology and engineering 2019 / p. 980-984 : ill <https://www.ijrte.org/wp-content/uploads/papers/v7i6s/F04000376S19.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

Comparative evaluation of a DAB converter and SRC for DC buildings application

Carvalho da Silva, Edivan Laercio; Chub, Andrii; Blinov, Andrei; Banavath, Satish Naik; Vinnikov, Dmitri 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 6 p <https://doi.org/10.1109/PEMC61721.2024.10726346>

Comparative evaluation of a new flying capacitor-based buck-boost converters for universal application

Hemmati Shahsavari, Tala 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 65-66 : ill https://www.ester.ee/record=b5504019*est

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 evaluation of dual-purpose converters suitable for application in dc and ac grids

Husev, Oleksandr; Matiushkin, Oleksandr; Jalakas, Tanel; Vinnikov, Dmitri; Vosoughi Kurdkandi, Naser IEEE journal of emerging and selected topics in power electronics 2024 / p. 1337-1347 <https://doi.org/10.1109/JESTPE.2023.3243857> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative evaluation of isolated dc-dc converters for low power applications

Azizi, Mohammadreza; Husev, Oleksandr; Vinnikov, Dmitri; Veligorskyi, Oleksandr 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 7-12
<https://doi.org/10.1109/PEMC51159.2022.9962944>

Comparative evaluation of multicoil inductive power transfer approaches based on Z-source network

Pakhaliuk, Bohdan; Husev, Oleksandr; Strzelecki, Ryszard; Shevchenko, Viktor; Maksym, Khomenko 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering (UKRCON) 2019 / 5 p <https://doi.org/10.1109/UKRCON.2019.8880002>

Comparative feasibility study of partial power converter for interfacing battery energy storage into power system of future circular collider

Chub, Andrii; Niinemägi, Joosep; Colmenero, Manuel; Aguglia, Davide Proceedings of the Estonian Academy of Sciences 2024 / p. 396-415 <https://doi.org/10.3176/proc.2024.4.08> [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](#)

Comparative study of field-oriented control model in application for induction and synchronous reluctance motors for life-cycle analysis

Autsou, Siarhei; Saroka, Viktor; Karpovich, Dzmitry; Rassölkin, Anton; Gevorkov, Levon; Vaimann, Toomas; Kallaste, Ants; Belahcen, Anouar; Rassölkin, Anton 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-5 : ill <https://doi.org/10.1109/IWED.2018.8321371>

Comparative study of inner and outer rotor bearingless synchronous reluctance motors

Mukherjee, Victor; Sokolov, Maxim; Pippuri, Jenni; Hinkkanen, Marko; Belahcen, Anouar The journal of engineering 2019 / p. 4375–

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 possible implementations of the flexible power electronic interface for wide-range high step-up applications in DC microgrid

Khan, Salman; Chub, Andrii; Vinnikov, Dmitri; Kasper, Matthias; Deboy, Gerald 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604370>

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](#)

A comparison between three-phase conventional two-stage ac-dc and single-stage matrix converter approaches

Mohseni, Parham; Emiliani, Pietro; Husev, Oleksandr; Vinnikov, Dmitri; Mackay, Laurens 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227438>

A comparison of a discrete-time PI and an indirect MPC current controllers for a single-phase grid-connected inverter operating with distorted grid and significant computation feedback delay

Pimentel, Sergio Pires; **Husev, Oleksandr; Vinnikov, Dmitri; Stepenko, Serhii; Kütt, Lauri;** Rodriguez, Jose 2019 IEEE 15th Brazilian Power Electronics Conference and 5th IEEE Southern Power Electronics Conference (COBEP/SPEC) 2019 / 6 p.: ill
<https://doi.org/10.1109/COBEP/SPEC44138.2019.9065396>

Comparison of current harmonic emission by different lighting technologies

Iqbal, Muhammad Naveed; Kütt, Lauri; Shabbir, Noman; Asad, Bilal 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p <http://toc.proceedings.com/52742webtoc.pdf>

Comparison of decoupling control strategies for multiple active bridge DC-DC converter

Cai, Yicong; Buticchi, Giampaolo; Gu, Chunyang; Li, Jing; **Carvalho da Silva, Edivan Laercio;** Zhang, He 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023
<https://doi.org/10.1109/CPE-POWERENG58103.2023.10227395>

Comparison of deep learning models for multivariate prediction of time series wind power generation and temperature

Mishra, Sambeet; Bordin, Chiara; Taharaguchi, Kota; **Palu, Ivo** Energy reports 2020 / p. 273-286
<https://doi.org/10.1016/j.egy.2019.11.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of flux-switching and interior permanent magnet synchronous generators for direct-driven wind applications based on nelder–mead optimal designing

Prakht, Vladimir; Dmitrievskii, Vladimir; Kazakbaev, Vadim; **Andriushchenko, Ekaterina** Mathematics 2021 / art. 732
<https://doi.org/10.3390/math9070732> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of full power and partial power buck-boost DC-DC converters for residential battery energy storage applications

Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 6 p <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880862>

Comparison of grid-connected flyback-based microinverter with primary and secondary side decoupling approach

Afshari, Hossein; Husev, Oleksandr; Vinnikov, Dmitri; Matiushkin, Oleksandr; Vosoughi Kurdkandi, Naser 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / p. 1-6 <https://doi.org/10.1109/RTUCON56726.2022.9978855>

Comparison of isolated boost full bridge converters for power factor correction application

Zinchenko, Denys; Blinov, Andrei; Vinnikov, Dmitri 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 7 p. : ill
<https://doi.org/10.1109/RTUCON48111.2019.8982361>

Comparison of isolated boost full-bridge converters for power factor correction application

Zinchenko, Denys 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 125-126 : ill https://www.ester.ee/record=b5291755*est

Comparison of machine learning algorithms for classification of partial discharge signals in medium voltage components

Kumar, Haresh; **Shafiq, Muhammad**; Hussain, Ghulam Amjad; Kauhaniemi, Kimmo 2021 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 8-21 October, 2021 : proceedings 2021 / 6 p
<https://doi.org/10.1109/ISGTEurope52324.2021.9639923>

Comparison of machine learning based methods for residential load forecasting

Shabbir, Noman; Ahmadihangar, Roya; Kütt, Lauri; Rosin, Argo 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärđla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818267>

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](#)

Comparison of (N+1) redundancy and fault tolerance approaches in single-stage series-connected isolated MVAC to LVDC converters

Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Blinov, Andrei; Bayhan, Sertac; **Vinnikov, Dmitri** 2023 International Conference on Clean Electrical Power (ICCEP) 2023 / p. 469-474 : ill <https://doi.org/10.1109/ICCEP57914.2023.10247478>

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](#)

Comparison of soft switching methods of DC-AC full bridge high-frequency link converter

Korkh, Oleksandr; Blinov, Andrei; Kosenko, Roman; Vinnikov, Dmitri 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659898>

Comparison of synchronous reluctance machine and permanent magnet-assisted synchronous reluctance machine performance characteristics

Heidari, Hamidreza; Andriushchenko, Ekaterina; Rassölkin, Anton; Kallaste, Ants; Vaimann, Toomas; Demidova, Galina 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 5 p. : ill <https://doi.org/10.1109/IWED48848.2020.9069583>

Comparison of system identification methods applied to analysis of inter-area modes [Online resource]

Tuttelberg, Kaur; Kilter, Jako; Uhlen, Kjetil Proceedings of IPST 2017 2017 / art. 17IPST121, p. 1-6 : ill
http://www.ipstconf.org/Proc_IPST2017.php

Comparison of the impact of different household occupancies on load matching algorithms

Häring, Tobias; Ahmadihangar, Roya; Rosin, Argo; Biechl, Helmuth; **Korõtko, Tarmo** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärđla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/PQ.2019.8818270>

A comparison of the vector control of synchronous reluctance motor and permanent magnet-assisted synchronous reluctance motor

Heidari, Hamidreza; Rassölkin, Anton; Kallaste, Ants; Vaimann, Toomas; Andriushchenko, Ekaterina; Belahcen, Anouar; Razzaghi, Arash 2021 XVIII International Scientific Technical Conference Alternating Current Electric Drives (ACED) : proceedings 2021 / 6 p. : ill <https://doi.org/10.1109/ACED50605.2021.9462265>

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 voltage buck control methods for series resonant converter

Sidorov, Vadim 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 55-56 : ill https://www.eester.ee/record=b5457278*est

Compensation topologies in IPT Systems : standards, requirements, classification, analysis, comparison and application

Shevchenko, Viktor; Husev, Oleksandr; Strzelecki, Ryszard IEEE Access 2019 / art. 2937891, p. 120559-120580 : ill
<https://doi.org/10.1109/ACCESS.2019.2937891> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A competitive framework for the participation of multi-microgrids in the community energy trading market: A case study

Zahraoui, Younes; Korõtko, Tarmo; Rosin, Argo; Zidane, Tekai Eddine Khalil; **Agabus, Hannes**; Mekhilef, Saad IEEE Access 2024 / p. 68232-68248 <https://doi.org/10.1109/ACCESS.2024.3399168> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Complexities associated with modeling of residential electricity consumption

Iqbal, Muhammad Naveed; Kütt, Lauri; Rosin, Argo 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill
<https://doi.org/10.1109/RTUCON.2018.8659812>

Compliance assessment of a phasor measurement unit to IEC 61000-4-30 class a for power quality measurements in transmission systems

Löper, Mari; Kilter, Jako; Stiegler, Robert; Meyer, Jan 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p
<https://doi.org/10.1109/PQ.2019.8818272>

Compliance testing concept of grid-connected inverter-based resources using simulated input

Dvoracek, Jiri; Drapela, Jiri; Moravek, Jan; Vojtek, Martin; Toman, Petr; **Rassölkin, Anton; Vaimann, Toomas** 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / p. 1-6 <https://doi.org/10.1109/EPE58302.2023.10149232>

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 comparison of grid-connected flyback-based microinverter with primary and secondary side decoupling approach

Afshari, Hossein; Husev, Oleksandr; Matiushkin, Oleksandr; Pourjafar, Saeed; Kurdkandi, Naser Vosoughi; **Vinnikov, Dmitri** IEEE transactions on industry applications 2024 / p. 9080-9089 <https://doi.org/10.1109/TIA.2024.3452069> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comprehensive comparison of isolated high step-up dc-dc converters for low power application

Pourjafar, Saeed; Afshari, Hossein; Mohseni, Parham; Husev, Oleksandr; Matiushkin, Oleksandr; Shabbir, Noman IEEE open journal of power electronics 2024 / p. 1149–1161 <https://doi.org/10.1109/OJPEL.2024.3433554> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

A comprehensive market mechanism for decentralized P2P energy trading platform

Zahraoui, Younes; Korötko, Tarmo; Agabus, Hannes; Rosin, Argo 2024 IEEE 22nd Mediterranean Electrotechnical Conference (MELECON) 2024 / p. 972-977 <https://doi.org/10.1109/MELECON56669.2024.10608740>

A comprehensive review of standards and best practices for utility grid integration with electric vehicle charging stations

Sachan, Sulabh; Deb, Sanchari; **Singh, Praveen Prakash;** Alam, Mohammad Saad; Shariff, Samir M. Wiley Interdisciplinary Reviews: Energy and Environment 2022 / Art. e424 <https://doi.org/10.1002/wene.424> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

A comprehensive review on DC fast charging stations for electric vehicles: standards, power conversion technologies, architectures, energy management, and cybersecurity

Arena, Gabriele; **Chub, Andrii;** Lukianov, Mykola; Strzelecki, Ryszard; **Vinnikov, Dmitri;** de Carne, Giovanni IEEE open journal of power electronics 2024 / p. 1573-1611 <https://doi.org/10.1109/OJPEL.2024.3466936> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comprison of grid-connected microinverter with primary and secondary side decoupling approach

Afshari, Hossein 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 57-58 : ill
https://www.ester.ee/record=b5570906*est

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

Belahcen, Anouar; Mukhrejee, Victor; Martin, Florian; Rasilo, Paavo 21st International Conference on the Computation of Electromagnetic Fields (Compumag 2017) : Daejeon, South Korea, 18-22 June 2017 2017 / p. 214-215 : ill
[http://www.compumag.org/CMAG2017/\[PA-A5-10\]_129.pdf](http://www.compumag.org/CMAG2017/[PA-A5-10]_129.pdf)

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](#)

Computation of magnetic forces using degenerated air-gap element

Sathyan, Sabini; **Belahcen, Anouar;** Kataja, Juhani; Henrotte, Francois; Benabou, Abdelkader; Le Menach, Yvonnick IEEE transactions on magnetics 2017 / 7401304, 4 p. : ill <https://doi.org/10.1109/TMAG.2017.2656239>

Concept of hardware-in-the-loop test platform for microgrid with multi-agent approach

Kuzin, Aleksei; Lukichev, Dmitry; **Demidova, Galina;** Anuchin, Alecksey 2020 IEEE 61st International Scientific Conference on

Concept of the test Bench for electrical vehicle propulsion drive data acquisition

Rassõlkin, Anton; Rjabtšikov, Viktor; Vaimann, Toomas; Kallaste, Ants; Kuts, Vladimir 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 35-42 : ill <https://doi.org/10.1109/ICEPDS47235.2020.9249078>

Concept of universal AC/DC-DC EV onboard battery charger with minimal redundancy and high-power density

Mohseni, Parham 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 73-74 : ill https://www.ester.ee/record=b5504019*est

Concept of wireless low-voltage DC socket for the residential house application

Shevchenko, Viktor; Husev, Oleksandr; Pakhaliuk, Bohdan; Vinnikov, Dmitri; Strzelecki, Ryszard IEEE Access 2024 / p. 143226-143236 <https://doi.org/10.1109/ACCESS.2024.3471691> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Concepts of additively manufactured electrical machines and components

Vaimann, Toomas; Tiismus, Hans; Kallaste, Ants 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 6 p <https://doi.org/10.1109/EPE58302.2023.10149252>

Conceptual modelling of an EV-permanent magnet synchronous motor digital twin

Mohamed, Mahmoud Ibrahim Hassanin; Rjabtšikov, Viktor; Jegorov, Sergei; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 156-160 <https://doi.org/10.1109/PEMC51159.2022.9962943>

Conceptual test bench for small class unmanned autonomous vehicle performance estimation

Pütsep, Kristjan; Rassõlkin, Anton; Vaimann, Toomas 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 695-698 : ill <https://doi.org/10.1109/PEMC48073.2021.9432509>

Condition monitoring and diagnostic of electrical machines using IoT and machine learning

Raja, Hadi Ashraf 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 31-32 : ill https://www.ester.ee/record=b5504019*est

Condition monitoring and fault detection for electrical machines using IOT

Raja, Hadi Ashraf; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants Proceedings of the Future Technologies Conference (FTC) 2022. Volume 2 2023 / p. 162-173 https://doi.org/10.1007/978-3-031-18458-1_12 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Condition monitoring of a Cartesian robot with a mechanically damaged gear to create a fuzzy logic control and diagnosis algorithm

Autsou, Siarhei; Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants Applied sciences 2024 / art. 4241 <https://doi.org/10.3390/app14104241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Condition monitoring of electrical machines and its relation to IoT

Vaimann, Toomas 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 55-56 : ill https://www.ester.ee/record=b5183874*est

Conductive ceramic based on the Bi-Sr-Ca-Cu-O HTSC system as an additive to the zinc electrode mass in the rechargeable Ni-Zn batteries – Electrochemical impedance study

Stoyanova-Ivanova, Angelina; Vasev, Alexander; Lilov, Peter; Petrova, Violeta; Marinov, Yordan; Stoyanova, Antonia; Ivanova, Galia; Mikli, Valdek Comptes Rendus de L'Academie Bulgare des Sciences 2019 / p. 174-181 <https://doi.org/10.7546/CRABS.2019.02.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Configurable PCB to teach DC-DC converters in power electronics

Roasto, Indrek 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 19-20 : ill https://www.ester.ee/record=b5291755*est

Congestion control strategies for increased renewable penetration of photovoltaic in LV distribution networks

Shabbir, Noman; Kütt, Lauri; Astapov, Victor; Husev, Oleksandr; Ahmadiyahangar, Roya; Wen, Fushuan; Kull, Karl Energy reports 2022 / p. 217-223 <https://doi.org/10.1016/j.egy.2022.10.184> [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**; Pefitsis, 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](#)

Considerations regarding the concept of cost-effective power-assist wheelchair subsystems (case study and initial evaluation)

Galkin, Ilja; Podgornovs, Andrejs; **Blinov, Andrei**; **Kosenko, Roman** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 71-80 : ill <https://doi.org/10.2478/ecce-2018-0008>

Constrained algorithm for the selection of uneven snapshots in model order reduction of a bearingless motor

Mukherjee, Victor; Far, Mehrnaz Farzam; Martin, Florian; **Belahcen, Anouar** IEEE transactions on magnetics 2017 / art. 7205304, 4 p. : ill <http://dx.doi.org/10.1109/TMAG.2017.2664505>

Constructing aggregated time series data for energy system model analyses

Koduvere, Hardi 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 163-164 : ill https://www.ester.ee/record=b5291755*est

Continuous monitoring of power system inertia and transmission loss components using synchronized phasor measurements = Elektrisüsteemi inertsi ja ülekandekadude komponentide pidev jälgimine faasimõõtmiste abil

Tuttelberg, Kaur 2018 <https://digi.lib.ttu.ee/i/210732> https://www.ester.ee/record=b5151804*est

Contribution of nano- and microgrids to topological power plants regarding voltage and frequency control = Nano- ja mikrovõrkude mõju topoloogilistele elektriiaamadele pinge ja sageduse juhtimise kontekstis

Helguero Cruz, Jorge Luis 2023 <https://doi.org/10.23658/taltech.60/2023> <https://digikogu.taltech.ee/et/item/ccf279f0-5c4e-4784-a6d7-a8c310ac489b> https://www.ester.ee/record=b5641245*est

Contributions to ventilation system demand response: a case study of an educational building

Maask, Vahur; Mikola, Alo; Korõtko, Tarmo; Rosin, Argo; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 11001, 6 p <https://doi.org/10.1051/e3sconf/202124611001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Control challenges of 3D printed switched reluctance motor

Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas; Tiismus, Hans 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia 30th of January - 02nd of February 2019 : proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/IWED.2019.8664282>

Control features of multicell-type current regulator for resistance welding

Verbytskyi, Ievgen; Bondarenko, Oleksandr; **Liivik, Elizaveta** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [5] p. : ill <https://doi.org/10.1109/RTUCON.2017.8124846>

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 bidirectional grid-forming inverter for nearly zero energy buildings

Roasto, Indrek; Jalakas, Tanel; Rosin, Argo 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659848>

Control of pick-and-place robots with reduced power consumption

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 4 p <https://doi.org/10.1109/RTUCON60080.2023.10413180>

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

Controller design for interleaved bidirectional dc-dc converter with coupled inductors

Tytelmaier, Kostiantyn; **Husev, Oleksandr**; Veligorskyi, Oleksandr; Khomenko, Maksym; Khomenko, Oleh 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 570-573 : ill <https://doi.org/10.1109/UKRCON.2017.8100306>

Controlling a battery energy storage system to support residential photovoltaic installations

Fernao Pires, Vitor; Martins, Joao; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; **Husev, Oleksandr** 2017 IEEE International Symposium on Industrial Electronics (ISIE) : Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom, 19-21 June, 2017 : proceedings 2017 / p. 1769-1774 : ill <https://doi.org/10.1109/ISIE.2017.8001516>

Conversion error of exponential to second order polynomial ZIP load model conversion

Leinakse, Madis; Kilter, Jako 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 12-15 June 2018 : conference proceedings 2018 / p. 1-5 <https://doi.org/10.1109/EEEIC.2018.8493667>

Conversion error of second order polynomial ZIP to exponential load model conversion

Leinakse, Madis; Kilter, Jako Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2018) : Dubrovnik, Croatia, 12-15 November 2018 2018 / 5 p <https://doi.org/10.1049/cp.2018.1882>

Converter state-space model estimation using dynamic mode decomposition

Suskis, Pavels; Zakis, Janis; Suzdalenko, Alexander; Khang, Huynh Van; **Rassölkin, Anton; Vaimann, Toomas**; Pomarnacki, Raimondas 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 5 I <https://doi.org/10.1109/ENERGYCON53164.2022.9830201>

Cooperative control of flywheel energy storage system and diesel generator for frequency regulation of microgrids using digital FIR filters

Faraji, M.; Mahdavi, Mohammad Saeed; **Gharehpetian, Gevork B.; Ahmadihangar, Roya; Rosin, Argo** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227448>

Coordinated optimization of parameters of PSS and UPFC-PODCs to improve small-signal stability of a power system with renewable energy generation

He, Ping; Shen, Runjie; **Wen, Fushuan**; Pan, Qi Journal of energy engineering 2021 / p. 04020089-1-04020089-11 : ill [https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000737](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000737) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Coordinated planning strategy for integrated energy systems in a district energy sector

Yang, Wentao; Liu, Weijia; Chung, Chi Yung; **Wen, Fushuan** IEEE Transactions on sustainable energy 2020 / p. 1807-1819 <https://doi.org/10.1109/TSTE.2019.2941418>

A coordinated strategy for multi-machine power system stability

Ghasemi-Marzbali, Ali; **Ahmadihangar, Roya** Applied Soft Computing 2021 / art. 07742, 16 p. : ill <https://doi.org/10.1016/j.asoc.2021.107742> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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: Review of state-of-the-art microwave filter tuning techniques and implementation of a novel tuning algorithm using expert-based hybrid learning (Wireless Personal Communications, (2024), 134, 2, (625-681), 10.1007/s11277-024-10894-x)

Sekhri, Even; Kapoor, Rajiv; **Tamre, Mart** Wireless Personal Communications 2024 / p. 683 <https://doi.org/10.1007/s11277-024-10941-7> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Corrections to “Opportunities and Challenges of Utilizing Additive Manufacturing Approaches in Thermal Management of Electrical Machines”

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; **Kallaste, Ants**; Marques Cardoso, Antonio J.; **Belahcen, Anouar; Vaimann, Toomas; Tiismus, Hans; Asad, Bilal** IEEE Access 2021 / p. 62532 <https://doi.org/10.1109/ACCESS.2021.3074827> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Co-simulations of induction machines coupled with a radial ball bearing for mechanical defects analysis

El Bouharrouti, Nada; Sitnikov, Maksim; Hemeida, Ahmed; Martin, Floran; Kudelina, Karolina; Naseer, Muhammad Usman; **Belahcen, Anouar** IET Electric Power Applications 2025 / 13 p. : ill <http://dx.doi.org/10.1049/elp2.12529>

Cost/comfort-oriented clustering-based extended time of use pricing

Azizi, Elnaz; Shotorbani, R.; **Ahmadihangar, Roya**; Mohammadi-Ivatloo, B.; **Rosin, Argo**; Sadiq, R. Sustainable cities and society 2021 / art. 102673, 10 p. : ill <https://doi.org/10.1016/j.scs.2020.102673> [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 improvement of power system's reliability within limited funds

Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 7 p <https://doi.org/10.1109/RTUCON62997.2024.10830808>

Cost-efficient real-time condition monitoring and fault diagnostics system for BLDC motor using IoT and Machine learning

Raja, Hadi Ashraf; Raval, Hardik; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : conference proceedings 2022 / 4 p. <https://doi.org/10.1109/Diagnostika55131.2022.9905102>

Creating digital twins fo electric vehicles using Unity 3D, Unreal Engine, and Nvidia Omniverse : a comprehensive overview

Rjabtšikov, Viktor 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 21-22 : ill https://www.ester.ee/record=b5570906*est

Critical parameter analysis and design of the Quasi-Z-Source inverter

Liu, Wenjie; Yang, Yongheng; **Liivik, Elizaveta; Vinnikov, Dmitri**; Blaabjerg, Frede 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 474-480 : ill <https://doi.org/10.1109/UKRCON.2019.8879831>

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

Orosz, Tamas; **Rassõlkin, 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 harmonics sensitivity analysis

Daniel, Kamran 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 89-90 : ill https://www.ester.ee/record=b5504019*est

Current practice on power quality legislation within European transmission systems – results from Horizon 2020 project MIGRATE

Kilter, Jako; Trummal, Tarmo; Löper, Mari; Palu, Ivo 2020 19th International Conference on Harmonics and Quality of Power (ICHQP), 6-7 July 2020, Dubai, UAE 2020 <https://doi.org/10.1109/ICHQP46026.2020.9177907>

Current situation and prospect of grid codes for a power system with integrated photovoltaic generation

Duan, Shuyin; Zhang, Shuyan; **Wen, Fushuan**; Shania, Farhad; **Palu, Ivo**; Zou, Bo; Dai, Pan 2020 International Conference on Smart Grids and Energy Systems (SGES): 23-26 Nov. 2020 2020 / p. 832-836 <https://doi.org/10.1109/SGES51519.2020.00153>

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 dual inductor push-pull partial power converter

Abdelrahim Abdelghafour, Omar Mohamed; Vinnikov, Dmitri; Chub, Andrii; Blinov, Andrei 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 327-332 <https://doi.org/10.1109/PEMC51159.2022.9962937>

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](#)

Curricula reforms through structural reforms

Vaimann, Toomas; Rassõlkin, Anton; Palu, Ivo 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 1-5 : ill <https://doi.org/10.1109/ICEPDS47235.2020.9249084>

Curricula updates through students' participation in international competition

Valme, Daniil; Belolipetskaja, Diana; Rassõlkin, Anton; Leoste, Janika; Rüttnann, Tiia Robotics in education : proceedings of the RiE 2024 conference 2024 / p. 352-364 https://doi.org/10.1007/978-3-031-67059-6_31 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Custom simplified machine learning algorithms for fault diagnosis in electrical machines

Raja, Hadi Ashraf; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p. <https://doi.org/10.1109/Diagnostika55131.2022.9905174>

Cyber attacks on power system automation and protection and impact analysis

Rajkumar, Vetrivel Subramaniam; **Tealane, Marko**; Stefanov, Alexandru; Presekal, Alfán; Palensky, Peter Proceedings of 2020 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 26-28 October, 2020 2020 / p. 247-254 <https://doi.org/10.1109/ISGT-Europe47291.2020.9248840>

Cyber attacks on protective relays in digital substations and impact analysis

Rajkumar, Vetrivel Subramaniam; **Tealane, Marko**; Stefanov, Alexandru; Palensky, Peter 8th Workshop on Modeling and Simulation of Cyber-Physical Energy Systems(MSCPES), Virtual Workshop, online, from April 21, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/MSCPES49613.2020.9133698>

Cyber contingencies impacts analysis in cyber physical power system

Chen, Keren; **Wen, Fushuan; Palu, Ivo** IEEE International Conference on Energy Internet : ICEI 2019, Nanjing, China, 27-31 May, 2019 : proceedings 2019 / p. 37-41 : ill <http://doi.org/10.1109/ICEI.2019.00013>

Cyber-physical microgrids : toward flexible energy districts

Rosin, Argo; Ahmadiyahangar, Roya; Martins, Joao; Sahoo, Subham; Blaabjerg, Frede Cyber Security for Microgrids 2022 / p. 161-178 : ill https://doi.org/10.1049/PBPO196E_ch8

Cylindrical blades Magnus wind turbine optimization and control system

Alassaf, Omar; Lukin, Aleksandr; **Demidova, Galina**; Kozlov, Gleb; Volkhontsev, Andrey; Poliakov, Nikolai 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / p. 1-5 <https://doi.org/10.1109/IWED54598.2022.9722582>

Damping characteristics of interconnected power systems with wind-photovoltaic-thermal-bundled power transmitted by AC/DC systems

He, Ping; Li, Zhao; Zheng, Mingming; **Wen, Fushuan**; Ji, Yugi; Wu, Xinxin Journal of energy engineering 2021 / p. 04021029-1-04021029-10 : ill [https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000765](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000765) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Data analysis of building sensors for efficient energy management and future trends in the EU

Crasta, Cletus J.; Agabus, Hannes 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärđla, Estonia, June 12-15, 2019 : proceedings 2019 / 8 p. : ill <https://doi.org/10.1109/PQ.2019.8818242>

Data science-based techniques for modelling and diagnostics of battery cells based on end-of-life criteria

Zequera, Rolando Antonio Gilbert; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / 6 p <https://doi.org/10.1109/EDPE58625.2023.10274007>

Data-driven approaches based microwave filter tuning - a review

Sekhri, Even; Tamre, Mart; Kapoor, Rajiv Advances in Artificial-Business Analytics and Quantum Machine Learning : Select Proceedings of the 3rd International Conference, Com-IT-Con 2023, Volume 2 2024 / p. 273-286 https://doi.org/10.1007/978-981-97-4860-0_22 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Data-driven asset management and condition assessment methodology for transmission overhead lines =

Ülekandevõrgu õhuliinide andmepõhine varahalduse ja seisundi hindamise meetodika

Manninen, Henri 2022 <https://doi.org/10.23658/taltech.4/2022> <https://digikogu.taltech.ee/et/Item/b0c60eaf-b740-4df5-bead-0dd793d5e6c8> https://www.ester.ee/record=b5491207*est

Data-driven risk preference analysis in day-ahead electricity market

Zhao, Huan; Zhao, Junhua; Qiu, Jing; Liang, Gaoqi; **Wen, Fushuan**; Xue, Yusheng; Dong, Zhao Yang IEEE transactions on smart grid 2021 / p. 2508-2517 : ill <https://doi.org/10.1109/TSG.2020.3036525>

Day-ahead economical planning of multi-vector energy district considering demand response program

Ghasemi-Marzbali, Ali; Shafiei, Mohammad; **Ahmadihangar, Roya** Applied energy 2023 / art. 120351

<https://doi.org/10.1016/j.apenergy.2022.120351> [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](#)

Day-ahead PV output power forecasting utilizing boosting recursive lightGBM-LSTM framework

Hokmabad, Hossein Nouroollahi; Husev, Oleksandr; Vinnikov, Dmitri; Belikov, Juri; Petlenkov, Eduard IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2023) : proceedings 2023 / 5 p

<https://doi.org/10.1109/ISGTEUROPE56780.2023.10408090>

Day-ahead scheduling of electric vehicles and electrical storage systems in smart homes using a novel decision vector and AHP method

Allilou, Masoud; Gharehpetian, Gevork B.; **Ahmadihangar, Roya; Rosin, Argo**; Anvari-Moghaddam, Amjad Sustainability

(Switzerland) 2022 / Art. 11773 <https://doi.org/10.3390/su141811773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

DC droop control strategies and tuning principles

Roasto, Indrek; Blinov, Andrei; Vinnikov, Dmitri; Mackay, Laurens; **Jalakas, Tanel** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 <https://doi.org/10.1109/RTUCON60080.2023.10412947>

DC fast charging of electric vehicles : a review on architecture and power conversion technology

Arena, Gabriele; **Emiliani, Pietro; Chub, Andrii; Vinnikov, Dmitri**; de Carne, Giovanni 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227492>

DC grid interface converter based on three-phase isolated matrix topology with phase-shift modulation

Emiliani, Pietro; Blinov, Andrei; Chub, Andrii; de Carne, Giovanni; **Vinnikov, Dmitri** 2022 IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 l. <https://doi.org/10.1109/PEDG54999.2022.9923256>

DC grid interface converter based on three-phase isolated matrix topology with phase-shift modulation

Emiliani, Pietro 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 53-54 : ill https://www.ester.ee/record=b5504019*est

DC integration of residential photovoltaic systems : a survey

Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Vinnikov, Dmitri; Blinov, Andrei IEEE Access 2022 / p. 66974-66991 <https://doi.org/10.1109/ACCESS.2022.3185788> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dc leakage current in isolated grid-connected dc nanogrid - origins and elimination methods

Azizi, Mohammadreza; **Husev, Oleksandr**; Veligorskyi, Oleksandr; Turzvnski, Marek; Strzelecki, Ryszard 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p

<https://doi.org/10.1109/CPE-POWERENG60842.2024.10604426>

DC microgrid: state of art, driving force, challenges and perspectives

Husev, Oleksandr; Vinnikov, Dmitri Power Systems Research and Operation : Selected Problems III 2024 / p. 149-190

https://doi.org/10.1007/978-3-031-44772-3_8 [Article collection metrics at Scopus](#) [Article at Scopus](#)

DC nano grid control in the residential energy router with the presence of constant power loads

Najafzadeh, Mahdiyyeh; Vinnikov, Dmitri; Husev, Oleksandr; Roasto, Indrek 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / p. 1-6 <https://doi.org/10.1109/ENERGYCON53164.2022.9830523>

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-DC перетворювач з широким діапазоном забезпечення режиму природної комутації в нулях напруги

Blinov, Andrei; Vinnikov, Dmitri; Ivakhno, Volodymyr; Zamaruev, Volodymyr; Styslo, Bogdan Вісник НТУ "Харківський політехнічний інститут". Серія: Електричні машини та електромеханічне перетворення енергії = Bulletin of the NTU "Kharkiv Polytechnic Institute". Series: Electrical Machines and Electromechanical Energy Conversion 2019 / с. 14-19 : in <https://doi.org/10.20998/2409-9295.2019.20.02>

DC-link capacitor minimization in residential energy router through battery utilization

Najafzadeh, Mahdiyyeh; Vinnikov, Dmitri; Husev, Oleksandr; Jalakas, Tanel; Roasto, Indrek 2021 IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Florence, Italy, 14-16 July 2021 2021 / p. 1-6 : ill <https://doi.org/10.1109/CPE-POWERENG50821.2021>

DC-ready flyback-based micro-converter

Afshari, Hossein; Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri; Roncero-Clemente, Carlos 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604344>

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](#)

Dead-beat-based model predictive current control for the dual-purpose dc-dc/ac PWM modular power converter

Roncero-Clemente, Carlos; Escalona, Javier-Gutierrez; Pires, V. Fernao; **Matiushkin, Oleksandr;** Milanes-Montero, Maria Isabel; Romero-Cadaval, Enrique 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604328>

Decarbonization dispatching strategy for electric vehicles based on life cycle analysis

Li, Zhonghui; Xu, Chengwei; Deng, Qing; **Wen, Fushuan; Palu, Ivo** 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 9-12 June 2020 : proceedings 2020 / 5 p. : ill <https://doi.org/10.1109/EEEIC/ICPSEurope49358.2020.9160631>

A decentralized distribution market mechanism considering renewable generation units with zero marginal costs

Yang, Jiajia; Dong, Zhao Yang; **Wen, Fushuan;** Chen, Guo; Qiao, Yichen IEEE Transactions on Smart Grid 2020 / p. 1724 - 1736 <https://doi.org/10.1109/TSG.2019.2942616> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Decentralized privacy-preserving operation of multi-area integrated electricity and natural gas systems with renewable energy resources

Qi, Feng; Shahidehpour, Mohammad; **Wen, Fushuan;** Li, Zhiyi; He, Yubin; Yan, Mingyu IEEE Transactions on sustainable energy 2020 / p. 1785-1796 <https://doi.org/10.1109/TSTE.2019.2940624>

Decomposition model of contract for difference considering market power mitigation

Xu, Chengwei; Pang, Kaiyuan; **Wen, Fushuan; Palu, Ivo;** Gong, Jianrong; Xie, Yuzhe; Chen, Cheng 2020 IEEE International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Madrid, Spain, 9-12 June 2020 : proceedings 2020 / 5 p <https://doi.org/10.1109/EEEIC/ICPSEurope49358.2020.9160725>

Deep Learning methodology for charging management applications in battery cells based on Neural Networks

Zequera, Rolando Antonio Gilbert; Rjabtšikov, Viktor; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants IEEE Transactions on Intelligent Vehicles 2025 / p. 668-682 <https://doi.org/10.1109/TIV.2024.3417216>

Deep reinforcement learning for automated tuning of cavity filters

Sekhri, Even; Tamre, Mart; Kapoor, Rajiv Proceedings of IEEE Forum International Conference 2019 / p. 53 http://www.digitalxplore.org/up_proc/pdf/408-154943387153.pdf

Defining the light-technical parameters and applying the recommended measuring methods for creating the smart crossings

Varjas, Toivo; Möller, Taavi; Rosin, Argo 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 111-113 : ill <http://ise.elnet.ee/record=b2950028~S2~est>

Demand-side Flexibility in Smart Grid

Ahmadihangar, Roya; Rosin, Argo; Palu, Ivo; Azizi, Aydin 2020 <https://doi.org/10.1007/978-981-15-4627-3>

Demonstration of mitigation measures and clarification of unclear grid code requirements : Deliverable D1.6 [Online resource]

Rüberg, S.; Sewdien, V.; Rueda Torres, J. L.; **Kilfer, Jako** 2019 [Deliverable D1.6](#)

Denoising and extraction of partial discharge pulse characteristics using wavelet denoising and local maxima method

Choudhary, Maninder; Palu, Ivo; Kiitam, Ivar; Shafiq, Muhammad; **Taklaja, Paul;** Bhattarai, Abhinav 2024 IEEE International Conference on Power and Energy (PECon) 2024 / p. 221-225 <https://doi.org/10.1109/PECon62060.2024.10827085>

Deployment of sustainable and smart urban lighting

Korõtko, Tarmo; Bunte, Heike; Tallo, Eva; Šponberga, Ieva; Potrykus, Yolanda; Nurulin, Yury; Axelsen, Teddy Sibbern <https://lucia-project.eu/wp-content/uploads/2022/04/LUCIA-Compendium-vol2.pdf>

Description of practical load harmonic current emission due to voltage harmonic variation

Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; Shabbir, Noman; Jarkovoi, Marek 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / p. 1–6 <https://doi.org/10.1109/RTUCON53541.2021.9711594>

Design and analysis of a DC solid-state circuit breaker for energy router application : [conference paper]

Rahimpour, Saeed 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 / p. 63-64 : ill https://www.ester.ee/record=b5504019*est

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 control for high reliability power electronics: state of the art and future trends

Alcaide, A. M.; Buticchi, Giampaolo; **Chub, Andrii; Dalessandro, L.** IEEE journal of emerging and selected topics in industrial electronics 2024 / p. 50-61 <https://doi.org/10.1109/JESTIE.2023.3287513>

Design and Control of Bidirectional Step-Up/Down Partial Power Converters for DC Microgrid Applications = Alalisvoolu mikrovõrkudele osavõimsuse töötusega kahesuunalise tõste-langetusmuunduri projekteerimine ja juhtimine

Hassanpour, Naser 2025 https://www.ester.ee/record=b5746961*est <https://digikogu.taltech.ee/et/Item/daec7687-5e83-467e-8e6a-45b1e4a15a64> <https://doi.org/10.23658/taltech.30/2025>

Design and discretization of multi-resonant current controllers

Elkayam, Moria Sassonker; Vinnikov, Dmitri 2024 19th Conference on Ph.D Research in Microelectronics and Electronics (PRIME) 2024 / 4 p <https://doi.org/10.1109/PRIME61930.2024.10559737>

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 a mechatronic elbow orthosis

Minh, Vu Trieu; Tamre, Mart; Safonov, Aleksei; Musalimov, Victor; Kovalenko, Pavel; Monakhov, Iurii Mechatronic Systems and Control 2020 / p. 231 - 238 <https://doi.org/10.2316/J.2020.201-0056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and implementation of a smart mechatronic elbow brace

Vu, Trieu Minh; Tamre, Mart; Safonov, Aleksei; Musalimov, Victor; Kovalenko, Pavel; Monakhov, Iurii Handbook of research on advanced mechatronic systems and intelligent robotics 2020 / p. 1-18 : ill <https://doi.org/10.4018/978-1-7998-0137-5.ch001>

Design and implementation of intelligent ground vehicle safety systems of high robustness to varying environmental and human factors

Aksjonov, Andrei 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 107-108 https://www.ester.ee/record=b5183874*est

Design and modeling of contoured airgap topology for additively manufactured electrical machines = Kõverdatud õhupilu topoloogiaga kihtlisandusmeetodil valmistatud elektrimasinate projekteerimine ja modelleerimine

Naseer, Muhammad Usman 2025 https://www.ester.ee/record=b5747039*est <https://doi.org/10.23658/taltech.32/2025> <https://digikogu.taltech.ee/et/Item/af3abd72-6077-43be-b7ed-5fa0b3f58602>

Design and optimization of permanent magnet generator with outer rotor for wind turbine application = Tuuleagregaadis kasutatava välisrootoriga püsimgenetgeneraatori projekteerimine ja optimeerimine

Kudrjajtsev, Oleg 2017 <https://digi.lib.ttu.ee/i/77662> https://www.ester.ee/record=b4671603*est

Design and performance of laser additively manufactured core induction motor

Tiismus, Hans; Kallaste, Ants; Naseer, Muhammad Usman; Vaimann, Toomas; Rassõlkin, Anton IEEE Access 2022 / p. 50137-50152 <https://doi.org/10.1109/ACCESS.2022.3173317> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 and resonance analysis of tubular structured dual stator linear oscillating actuator

Ahmad, Zahoor; Kallaste, Ants; Vaimann, Toomas; Sardar, Muhammad Usman 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p <https://doi.org/10.1109/ICEM60801.2024.10700213>

Design and simulation verification of low power wireless charging battery system for electric bicycle

Shevchenko, Viktor; Husev, Oleksandr; Pakhaliuk, Bohdan; Kondratenko, Igor 2018 IEEE 3rd International Conference on Intelligent Energy and Power Systems (IEPS) 2018 / p. 22-27 <https://doi.org/10.1109/IEPS.2018.8559531>

Design and simulations of dual clutch transmission for hybrid electric vehicles

Vu, Trieu Minh; Abouelkheir, Moustafa International journal of electric and hybrid vehicles 2017 / p. 302-321 : ill <https://doi.org/10.1504/IJEHV.2017.089873> [Journal metrics at Scopus](#) [Article at Scopus](#)

Design and testing of an universal autonomous surface vehicle

Roasto, Indrek; Jalakas, Tanel; Mölder, Heigo; Möller, Taavi; Tabri, Kristjan; Enok, Mart 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 705-710 : ill <https://doi.org/10.1109/PEMC48073.2021.9432567>

Design considerations of dual-active bridge DC grid-forming converter for DC buildings

Carvalho da Silva, Edivan Laercio; Sidorova, Aleksandra; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri IEEE transactions on industrial electronics 2024 / p. 10601-10611 <https://doi.org/10.1109/TIE.2023.3331125> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 issues of SSCBs for residential DC microgrid

Jalakas, Tanel; Chub, Andrii; Roasto, Indrek; Vinnikov, Dmitri 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830826>

Design of a research laboratory drive system for a synchronous reluctance motor for vector control and performance analysis

Heidari, Hamidreza; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas; Andriushchenko, Ekaterina; Belahcen, Anouar Inventions 2021 / art. 64, 21 p. : ill <https://doi.org/10.3390/inventions6040064> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design of a wearable mechatronic brace

Vu, Trieu Minh; Tamre, Mart; Safonov, Aleksei; Kovalenko, Pavel; Monahov, Juri 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 9-13 : ill http://ise.elnet.ee/record=b2949854~S2*est

Design of an additively manufactured polymer composite electrical machine

Sarap, Martin; Kallaste, Ants; Naseer, Muhammad Usman; Tiismus, Hans; Rjabtsikov, Viktor; Shams Ghahfarokhi, Payam; Vaimann, Toomas; Aman, Alexander; Kutia, Mykhailo 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227413>

Design of an additively manufactured thermal solution for an axial flux switched reluctance motor

Sarap, Martin; Singh, Shalini; Kallaste, Ants; Jawad Qureshi, Ahmed Jawad; Tiismus, Hans; Vaimann, Toomas; Shams Ghahfarokhi, Payam Case studies in thermal engineering 2025 / art. 105805 <https://doi.org/10.1016/j.csite.2025.105805>

Design of high frequency transformer for isolated bridge-type PFC converter

Zinchenko, Denys; Blinov, Andrei; Vinnikov, Dmitri; Ormisson, Andres 2020 IEEE 4th International Conference on Intelligent Energy and Power Systems (IEPS), 06.07.2020 - 10.07.2020, Istanbul, Turkey 2020 / 8 p. : ill <https://doi.org/10.1109/IEPS51250.2020.9263134>

Design of LCL-filter for grid-connected buck-boost inverter based on unfolding circuit

Matiushkin, Oleksandr; Husev, Oleksandr; Vinnikov, Dmitri; Kütt, Lauri 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818248>

Design of multiphase single-switch impedance-source converters

Chub, Andrii; Vinnikov, Dmitri; Liivik, Liisa; Jalakas, Tanel; Blinov, Andrei IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 3718-3724 : ill <https://doi.org/10.1109/IECON.2018.8591361>

Design of performance characteristics on laser treated denim fabric

Mandre, Nele; Plamus, Tiia; Linder, Angelika; Varjas, Toivo; Majak, Jüri; Krumme, Andres The materials science = Medžiagotyra 2023 / 10 p. : ill <https://doi.org/10.5755/j02.ms.33259> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design of regenerative anti-lock braking system controller for 4 in-wheel-motor drive electric vehicle with road surface estimation

Aksjonov, Andrei; Vodovozov, Valery; Augsburg, Klaus; Petlenkov, Eduard International journal of automotive technology 2018 / p. 727-742 : ill <https://doi.org/10.1007/s12239-018-0070-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design of rotors for synchronous reluctance motor : analytical treatment and optimization

Orlova, Svetlana; Pugachov, Vladislav; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe), 3-5 Sept. 2019, Genova, Italy : proceedings 2019 / 9 p. : ill <https://doi.org/10.23919/EPE.2019.8914760>

Design of solid state circuit breaker

Jalakas, Tanel; Chub, Andrii; Roasto, Indrek; Vinnikov, Dmitri 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / p. 1-5 <https://doi.org/10.1109/RTUCON56726.2022.9978903>

Design optimization methods of additively manufactured Switched Reluctance Motor = Kihltisandustehnoloogia abil toodetud samm-mootori optimeerimise meetodid

Andriushchenko, Ekaterina 2023 <https://doi.org/10.23658/taltech.16/2023> <https://digikogu.taltech.ee/et/Item/382b9eea-7bd1-4140-b124-9f0b580e81bc> https://www.ester.ee/record=b5558664*est

Design optimization of 3D-printed permanent magnet clutch

Andriushchenko, Ekaterina 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 31-32 : ill https://www.ester.ee/record=b5457278*est

Design optimization of permanent magnet clutch

Andriushchenko, Ekaterina; Kallaste, Ants; Belahcen, Anouar; Heidari, Hamidreza; Vaimann, Toomas; Rassõlkin, Anton 2020 International Conference on Electrical Machines (ICEM), 23-26 August 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 436-440 <https://doi.org/10.1109/ICEM49940.2020.9270726>

Design optimization of permanent magnet clutch with Ārtap framework

Andriushchenko, Ekaterina; Kaska, Jan; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton Periodica polytechnica electrical engineering and computer science 2021 / p. 106-112 <https://doi.org/10.3311/PPee.17007> [Journal metrics at Scopus](#) [Article at Scopus](#)

Design procedure and preliminary analysis for the introduction of axial asymmetry in the synchronous reluctance machines

Naseer, Muhammad Usman 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 33-34 : ill https://www.ester.ee/record=b5570906*est

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; Rassõlkin, 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 and evaluation of driver distraction using machine learning and fuzzy logic

Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard; Herrmann, Martin IEEE Transactions on Intelligent Transportation Systems 2019 / p. 2048 - 2059 <https://doi.org/10.1109/TITS.2018.2857222> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of core losses using an inverse modeling technique

Osemwinyen, Osaruyi; Hemeida, Ahmed; **Shams Ghahfarokhi, Payam; Belahcen, Anouar** IEEE Access 2022 / p. 29224-29232
<https://doi.org/10.1109/ACCESS.2022.3158365> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of forced convection coefficient over a flat side of coil

Shams Ghahfarokhi, Payam; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton; Belahcen, Anouar 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [4] p. : ill <https://doi.org/10.1109/RTUCON.2017.8124759>

Determination of heat transfer coefficient for the air forced cooling over a flat side of coil

Shams Ghahfarokhi, Payam; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 15-20 : ill <https://doi.org/10.2478/ecce-2019-0003>

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](#)

Determination of natural convection heat transfer coefficient over the fin side of a coil system

Shams Ghahfarokhi, Payam; Belahcen, Anouar; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton International journal of heat and mass transfer 2018 / p. 677-682 : ill <https://doi.org/10.1016/j.jheatmasstransfer.2018.05.071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determination of thermal convection coefficient from coil's flat plate side

Shams Ghahfarokhi, Payam; Kallaste, Ants; Belahcen, Anouar 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 130-132 : ill http://www.ester.ee/record=b4650094*est

Determining cost-efficient sequence of condition inspection based on estimated condition data

Andreesen, Guido; Leinakse, Madis; Kilter, Jako; Landsberg, Mart IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863436>

Determining optimisation framework for local energy communities

Drovtar, Imre; Korõtko, Tarmo; Mutule, Anna; Kairisa, Evita; Rosin, Argo 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 7 p <https://doi.org/10.1109/ENERGYCON53164.2022.9830444>

Determining the thermal conductivity of additively manufactured metal specimens

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas 2022 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / 4 p <https://doi.org/10.1109/IWED54598.2022.9722591>

Development and application of energy producing solar pavement in Estonia

Jalakas, Tanel; Chub, Andrii; Vinnikov, Dmitri; Spalatu, Nicolae; Gudkova, Viktoria; Krunks, Malle; Mere, Arvo; Lahi, Allan 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 5 p. : ill <https://doi.org/10.1109/RTUCON56726.2022.9978908>

Development and testing of vertical take-off and landing aerial vehicle with tandem electric ducted fan motor

Pütsep, Kristjan; Nerep, Tõivo; Tiismus, Hans; Rassõlkin, Anton Proceedings of the Estonian Academy of Sciences 2023 / p. 184–193 <https://doi.org/10.3176/proc.2023.2.08> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development and utilization of synthetic signals for fault diagnostics of electrical machines

Raja, Hadi Ashraf; Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants IEEE journal of emerging and selected topics in industrial electronics 2024 / 9 p <https://doi.org/10.1109/JESTIE.2024.3395650>

Development and validation of reactive power regulator for synchronous generator using industrial controller and real-time digital simulator

Trummal, Tarmo 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 165-166 : ill

Development case study of the first Estonian self-driving car, ISEAUTO

Rassõlkin, Anton; Sell, Raivo; Leier, Mairo Scientific Journal of Riga Technical University. Electrical, control and communication

Development methodology for creating the digital twin for propulsion drive of an electric vehicle = Elektrisõiduki veoajami digitaalse kaksiku arendusmetoodika

Rjabtšikov, Viktor 2024 https://www.ester.ee/record=b5685462*est <https://digikogu.taltech.ee/et/Item/6cbd2dba-76a5-4931-a9f3-53b9d4d87c1e> <https://doi.org/10.23658/taltech.29/2024>

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 power electronics controller with RISC-V based core for security-critical applications

Swakath, S. U.; Kshirsagar, Abhijit; Kondepu, Koteswararao; Banavath, Satish Naik; **Chub, Andrii; Vinnikov, Dmitri** 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / p. 1-5 <https://doi.org/10.1109/RTUCON56726.2022.9978737>

Development of a Substation Risk-Based Asset Management Decision-Making Process in the Case of Insufficient Information = Alajaama riskipõhise varahalduse otsustusprotsessi arendamine ebapiisava sisendteabe tingimustes

Andresen, Guido 2025 https://www.ester.ee/record=b5754736*est <https://digikogu.taltech.ee/et/Item/49e349b9-c62b-4a9e-af14-5c8408e54028> <https://doi.org/10.23658/taltech.52/2025>

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 an axial flux SRM through additive manufacturing

Hussain, Shahid; Kallaste, Ants; Naseer, Muhammad Usman; Tiismus, Hans; Vaimann, Toomas 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p <https://doi.org/10.1109/ICEM60801.2024.10700569>

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 control methods for synchronous reluctance motors = Sünkroonreluktantsmootorite juhtimismeetodite edasiarendus

Heidari, Hamidreza 2022 <https://doi.org/10.23658/taltech.8/2022> <https://digikogu.taltech.ee/et/Item/f249726a-f96c-4d94-b892-afc9ae4fda9e> https://www.ester.ee/record=b5491774*est

Development of digital twin for robotic arm

Bratchikov, Stepan; Abdullin, Artur; **Demidova, Galina;** Lukichev, Dmitry 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 717-723 <https://doi.org/10.1109/PEMC48073.2021.9432535>

Development of dual clutch transmission model for hybrid vehicle

Abouelkheir, Moustafa International Journal of Innovative Technology and Interdisciplinary Sciences : IJTIS 2018 / p. 26-33 : ill <https://doi.org/10.1515/IJTIS.2018.1.1.26-33>

Development of emerging technology-driven NordPlus competence network in the Baltic and Nordic regions

Kunicina, Nadezhda; Bruzgien, Rasa; Narbutaite, Lina; **Rassõlkin, Anton; Mohamed, Mahmoud Ibrahim Hassanin;** Balandin, Sergey 2024 35th Conference of Open Innovations Association (FRUCT) : proceedings Proceedings of the 2024 / p. 407-412 : ill <https://doi.org/10.23919/FRUCT61870.2024.10516359> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Development of experimental load management system for nearly zero-energy building

Maask, Vahur; Rosin, Argo; Roasto, Indrek 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659826>

Development of mutual recognition of education approach in advanced computer-oriented engineering technologies in the Baltic region

Kunicina, Nadezhda; **Rassõlkin, Anton;** Bruzgiene, Rasa; Plonis, Darius; Caiko, J. 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10413098>

Development of new requirements for outdoor advertisement screens

Varjas, Toivo 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 231-232 : ill https://www.ester.ee/record=b5183874*est

Development of prosumer logical structure and object modeling

Korõtko, Tarmo; Rosin, Argo; Ahmadihangar, Roya 2019 IEEE 13th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : [proceedings] 2019 / 6 p. : ill <https://doi.org/10.1109/CPE.2019.8862390>

Development of realtime co-simulation platform harnessing consumer energy flexibility through an aggregator to provide grid support

Shabbir, Noman; Ahmadihangar, R; Rosin, Argo; Kilter, Jako; Martins, Joao IEEE Transactions on Consumer Electronics 2024 / p. 6641-6652 <https://doi.org/10.1109/TCE.2024.3470241> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Development of robust participation strategies for an aggregator of electric vehicles in multiple types of electricity markets

Liu, Weijia; Wen, Fushuan; Dong, ZhaoYang; Palu, Ivo Energy Conversion and Economics 2020 / p. 104-123 <https://doi.org/10.1049/enc2.12010>

Development of TalTech flexible virtual power plant to aggregate demand-side flexibility

Ahmadihangar, Roya 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 17-18 https://www.ester.ee/record=b5291755*est

Development of the reconfigurable continuous track robot

Valme, Daniil 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 15-16 : ill https://www.ester.ee/record=b5504019*est

Development of thermal analysis tools for synchronous reluctance motors = Soojusanalüüsi töövahendi väljaarendus sünkroon-reluktantsmootorile

Shams Ghahfarokhi, Payam 2019 <https://digi.lib.ttu.ee/i/?12288> https://www.ester.ee/record=b5233445*est

Development prospects of the oil shale industry under conditions of renewable and low-carbon energy policy = Põlevkivitööstuse arenguperspektiivid taastuvenergia ja madala süsinikuheitmega tehnoloogia arendamise poliitika tingimustes

Pulkkinen, Svetlana 2019 <https://digi.lib.ttu.ee/i/?12019> https://www.ester.ee/record=b5227428*est

A DFT-based approach for condition monitoring of switch-mode power converters

Kütt, Lauri; Tiivel, Tuuli; Parker, Martin; Valgur, Laur; Jarkovoi, Marek; Chub, Andrii 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p <https://doi.org/10.1109/RTUCON62997.2024.10830915>

Diagnostic possibilities of induction motor bearing currents

Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Demidova, Galina; Karpovich, Dzmitry 2021 XVIII International Scientific Technical Conference Alternating Current Electric Drives (ACED) : proceedings 2021 / 5 p. : ill <https://doi.org/10.1109/ACED50605.2021.9462298>

Diagnostics analysis of partial discharge events of the power cables at various voltage levels using ramping behavior analysis method

Mishra, Sambeet; Singh, Praveen Prakash; Kiitam, Ivar; Shafiq, Muhammad; Palu, Ivo; Bordin, Chiara Electric power systems research 2024 / art. 109988 <https://doi.org/10.1016/j.epsr.2023.109988> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Digitaalkaksikud diagnostika rakenduseks

Vaimann, Toomas Elektriala 2023 / lk. 24-25 https://www.ester.ee/record=b1240496*est

Digitaalsete elektrivõrkude lävel : [noorteadlaste konkursi Teadus kolme minutiga ettekanne]

Uuemaa, Madis Teadus kolme minutiga : 2017-2019 2019 / lk. 144-147 : portr., ill https://www.ester.ee/record=b5245642*est

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 control strategy for interleaved quasi-Z-source inverter with active power decoupling

Stepenko, Serhii; Husev, Oleksandr; Pires Pimentel, Sergio; Vinnikov, Dmitri; Roncero-Clemente, Carlos; Makovenko, Elena IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 3725-3730 : ill

Digital shadow of an electric vehicle-permanent magnet synchronous motor drive for real-time performance monitoring

Mohamed, Mahmoud Ibrahim Hassanin; Rjabtšikov, Viktor; Rassõlkin, Anton Digital twins and applications 2025 / 12 p

<https://doi.org/10.1049/dgt2.12024>

Digital Twin as a virtual sensor for wind turbine applications

Mohamed, Mahmoud Ibrahim Hassanin; Rassõlkin, 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 twin based computational methods for XR applications = Digitaalkaksikute põhised arvutuslikud meetodid XR rakenduste jaoks

Alsaleh, Saleh Ragheb Saleh 2024 <https://doi.org/10.23658/taltech.15/2024> https://www.ester.ee/record=b5674508*est

<https://digikogu.taltech.ee/et/Item/557fefce-a06a-479b-bc30-70910085d23d>

Digital twin development of an EV-permanent magnet synchronous motor as a virtual torque sensor

Mohamed, Mahmoud Ibrahim Hassanin 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 23-24

https://www.ester.ee/record=b5504019*est

Digital twin for propulsion drive of autonomous electric vehicle

Rassõlkin, Anton X Międzynarodowa Konferencja "Nauki społeczne i techniczne – zakres współpracy na rzecz postępu

społecznego i technologicznego" 2020 / p. [36-37] : ill https://mcbi.pl/wp-content/uploads/2020/06/skrypt_abstrakty_mailing-1.pdf

Digital twin for propulsion drive of autonomous electric vehicle

Rassõlkin, Anton; Kuts, Vladimir; Kallaste, Ants; Vaimann, Toomas 2019 IEEE 60th International Scientific Conference on

Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p. : ill

<https://doi.org/10.1109/RTUCON48111.2019.8982326>

Digital twin of an electrical motor based on empirical performance model

Rassõlkin, Anton; Rjabtšikov, Viktor; Vaimann, Toomas; Kallaste, Ants; Kuts, Vladimir; Partyshev, Andriy 2020 XI International

Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 11-14 : ill

<https://doi.org/10.1109/ICEPDS47235.2020.9249366>

Digital twin of wind generator for modelling various turbine characteristics

Raja, Hadi Ashraf; Autsou, Siarhei; Kudelina, Karolina; Rjabtšikov, Viktor; Vaimann, Toomas; Kallaste, Ants; Pomarnacki,

Raimondas; Hyunh, Van Khang 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / p. 1-5

<https://doi.org/10.1109/EDPE58625.2023.10274050>

Digital twin of wind generator to simulate different turbine characteristics using IoT

Raja, Hadi Ashraf; Kudelina, Karolina; Rjabtšikov, Viktor; Vaimann, Toomas; Kallaste, Ants; Pomarnacki, Raimondas; Hyunh,

Van Khang Proceedings of the Future Technologies Conference (FTC) 2023. Vol. 1 2023 / p. 123-132 [https://doi.org/10.1007/978-3-](https://doi.org/10.1007/978-3-031-47454-5_9)

[031-47454-5_9](https://doi.org/10.1007/978-3-031-47454-5_9) [Conference proceedings at Scopus](#) [Article at Scopus](#)

Digital twin service unit development for an EV induction motor fault detection

Rjabtšikov, Viktor; Mohamed, Mahmoud Ibrahim Hassanin; Asad, Bilal; Rassõlkin, Anton; Vaimann, Toomas; Kallaste,

Ants; Kuts, Vladimir; Stepień, Mariusz; Krawczyk, Mateusz 2023 IEEE International Conference on Electric Machines and Drives

(IEMDC) 2023 / 5 p <https://doi.org/10.1109/IEMDC55163.2023.10239085>

Digital Twin service unit for AC motor stator inter-turn short circuit fault detection

Rjabtšikov, Viktor; Rassõlkin, Anton; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Kuts, Vladimir; Jegorov, Sergei;

Stepień, Mariusz; Krawczyk, Mateusz 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives

(IWED) 2021 <https://doi.org/10.1109/IWED52055.2021.9376328>

Digital twin simulations based reinforcement learning for navigation and control of a wheel-on-leg mobile robot

Alsaleh, Saleh Ragheb Saleh; Tepljakov, Aleksei; Tamre, Mart; Kuts, Vladimir; Petlenkov, Eduard Proceedings of ASME

2022 International Mechanical Engineering Congress and Exposition (IMECE2022), 2B: Columbus, Ohio, USA, October 30 -

November 3, 2022 2022 / art. IMECE2022-95411, V02BT02A025, 8 p <https://doi.org/10.1115/IMECE2022-95411>

Digital twin-based EV permanent magnet synchronous motor for condition monitoring

Mohamed, Mahmoud Ibrahim Hassanin 22nd International Symposium "Topical Problems in the Field of Electrical and Power

Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 19-20 : ill

https://www.ester.ee/record=b5570906*est

Digital twins for designing energy management systems for microgrids: Implementation example based on TalTech Campulse project

Korõtko, Tarmo; Zahraoui, Younes; Rosin, Argo; Agabus, Hannes 2023 IEEE 17th International Conference on Compatibility,

Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE->

Direct conductor cooling of outer-rotor machine enabled by additive manufacturing

Sarap, Martin 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 31-32 : ill https://www.ester.ee/record=b5570906*est

Direct conductor cooling of outer-rotor machine enabled by additive manufacturing

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 4 p <https://doi.org/10.1109/IEMDC55163.2023.10238858>

"Discount" - the renewable energy production impact on electricity price

Ulm, Lauri; Koduvere, Hardi; Palu, Ivo 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p <https://doi.org/10.1109/RTUCON51174.2020.9316611>

Distance learning in technical education on example of Estonia and Poland

Vaimann, Toomas; Stepien, Mariusz; Rassõlkin, Anton; Palu, Ivo 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 285-288 : ill <https://doi.org/10.1109/ICEPDS47235.2020.9249317>

Distsantsõppest tehnikahariduses

Vaimann, Toomas; Palu, Ivo Elektriala 2020 / lk. 10-12 : portr http://www.ester.ee/record=b1240496*est

Distorted grid and significant computation feedback delay

Pimentel, Sergio Pires; Husev, Oleksandr; Vinnikov, Dmitri; Stepenko, Serhii; Kütt, Lauri; Rodriguez, Jose 2019 IEEE 15th Brazilian Power Electronics Conference and 5th IEEE Southern Power Electronics Conference (COBEP/SPEC 2019) Santos, Brazil, 1-4 December 2019 2019 / p. 1481-1486 <http://toc.proceedings.com/52923webtoc.pdf>

Distributed average integral control based energy management model

Shaukat, Neelofar; Khan, Bilal; Qureshi, Muhammad Bilal; Jawad, Muhammad; Shabbir, Noman; Daniel, Kamran 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2023 / 5 p <https://doi.org/10.1109/ETFG55873.2023.10407358>

Distributed energy laboratory concept focused on power electronics units

Poliakov, Nikolai; Demidova, Galina; Zolov, Pavel International Conference on Electromechanical and Power Systems (SIELMEN) 2021 / p. 387-392 <https://doi.org/10.1109/SIELMEN53755.2021.9600330>

Distributed energy systems : design, modeling, and control

2022 <https://www.taylorfrancis.com/books/edit/10.1201/9781003229124/distributed-energy-systems-ashutosh-giri-sabha-raj-arya-dmitri-vinnikov>

Distributed optimal storage strategy in the ADMM-based peer-to-peer energy trading considering degradation cost

Han, Binghui; Zahraoui, Younes; Mubin, Marizan; Mekhilef, Saad; Korõtko, Tarmo; Alshammari, O. Journal of energy storage 2024 / art. 112651 <https://doi.org/10.1016/j.est.2024.112651> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [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](#)

Distribution transformer frequency response analysis : behavior of different statistical indices during inter-disk fault

Nurmanova, Venera; Sultanbek, Adilet; Bagheri, Mehdi; Ahmadiyahangar, Roya 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) 2019 / 6 p. : ill <https://doi.org/10.1109/EEEIC.2019.8783252>

Dmitri Vinnikov, tehnika- ja arvutiteadused [Võrguväljaanne]

Vinnikov, Dmitri Eesti Teaduste Akadeemia : Youtube kanal 2021 / video [Dmitri Vinnikov, tehnika- ja arvutiteadused](#)

Doktorantide läbipõlemine suretab Eesti teaduse

Vaimann, Toomas postimees.ee 2025 <https://arvamus.postimees.ee/8236689/toomas-vaimann-doktorantide-labipolemine-suretab-eesti-teaduse>

Domain decomposition approach for efficient time-domain finite-element computation of winding losses in electrical machines

Lehikoinen, Antti; Ikäheimo, Jouni; Arkkio, Antero; Belahcen, Anouar IEEE transactions on magnetics 2017 / art. 7400609, 9 p. : ill <https://doi.org/10.1109/TMAG.2017.2681045>

Double deep Q-Learning approach for tuning microwave cavity filters using locally linear embedding technique

Sekhri, Even; Kapoor, Rajiv; **Tamre, Mart** 2020 International Conference Mechatronic Systems and Materials (MSM) 2020 / 6 p. : ill <https://doi.org/10.1109/MSM49833.2020.9202393>

Driver distraction detection and evaluation with artificial neural network and fuzzy logic : In-vehicle information system as a driver's secondary activity: case study

Aksjonov, Andrei; Nedoma, Pavel; **Vodovozov, Valery;** **Petlenkov, Eduard** 2018 IEEE 15th International Workshop on Advanced Motion Control (AMC 2018) 2018 / p. 523–528 : ill [Driver distraction detection and evaluation with artificial neural network and fuzzy logic : In-vehicle information system as a driver's secondary activity: case study](https://doi.org/10.1109/AMC2018.2018.00052)

Driver distraction while performing a secondary task evaluation approach based on fuzzy expert system

Aksjonov, Andrei; Nedoma, Pavel; **Vodovozov, Valery;** **Petlenkov, Eduard;** Hermann, Martin 2017 / p. 1-27 : ill <https://www.etis.ee/File/DownloadPublic/9fe35346-efcf-4429-af04-ba8325dc1480?name=GSVF2017-Aksjonov.pdf&type=application%2Fpdf>
<https://www.gsvf.at/index.php/en/program-2017>

Droop control implementation in bidirectional step-up/down Partial power converter for battery energy storage applications

Hassanpour, Naser; **Chub, Andrii;** **Blinov, Andrei;** **Vinnikov, Dmitri** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10413064>

Droop control with incorporated dead zone for indirect energy management in DC nanogrids

Roasto, Indrek; **Blinov, Andrei;** **Vinnikov, Dmitri** 2024 IEEE 21st International Power Electronics and Motion Control Conference (PEMC) 2024 / 6 p <https://doi.org/10.1109/PEMC61721.2024.10726394>

A Dual-arm robot for collaborative vision-based object classification

Zahavi, Ali; **Najafi Haeri, Shahriar;** **Chamara Liyanage, Dhanushka;** **Tamre, Mart** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 <https://doi.org/10.1109/BEC49624.2020.9277067>

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-Mode magnetically integrated photovoltaic microconverter with adaptive mode change and global maximum power point tracking

Mashinchi Maheri, Hamed; **Vinnikov, Dmitri;** **Chub, Andrii;** **Korkh, Oleksandr;** **Rosin, Argo;** Babaei, Ebrahim IET renewable power generation 2021 / p. 86-98 <https://doi.org/10.1049/rpg2.12007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dual-purpose converters for DC or AC grid as energy transition solution : perspectives and challenges

Husev, Oleksandr; **Vinnikov, Dmitri;** Kouro, Samir; Blaabjerg, Frede; Roncero-Clemente, Carlos IEEE industrial electronics magazine 2024 / p. 46-57 <https://doi.org/10.1109/MIE.2022.3230219> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic characteristic evaluation of a 600V reverse blocking IGBT device

Korkh, Oleksandr; **Blinov, Andrei** Advances in Information, Electronic and Electrical Engineering (AIEEE) : proceedings of the 5th IEEE Workshop, november 24-25, 2017, Riga, Latvia 2018 / p. 1-5 : ill <https://doi.org/10.1109/AIEEE.2017.8270527>

Dynamic network tariff in practices : key issues and challenges

Singh, Praveen Prakash; **Wen, Fushuan;** **Palu, Ivo** 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON) 2021 / p. 1-6 <https://doi.org/10.1109/GUCON50781.2021.9573767>

Dynamic reconfiguration for wide output voltage range isolated buck-boost PFC converter

Verbytskyi, Ievgen; **Nadeem, Mohammad Mahad;** **Blinov, Andrei;** **Carvalho da Silva, Edivan Laercio;** **Chub, Andrii;** **Vinnikov, Dmitri** 2023 IEEE 8th Southern Power Electronics Conference and 17th Brazilian Power Electronics Conference (SPEC/COBEP) 2023 / 5 p. : ill <https://doi.org/10.1109/SPEC56436.2023.10407792>

Dynamic state space model based analysis of a three-phase induction motor using nonlinear magnetization inductance

Asad, Bilal; **Vaimann, Toomas;** **Rassõlkin, Anton;** **Belahcen, Anouar** 2018 19th International Scientific Conference on Electric Power Engineering (EPE 2018) : Brno, Czech Republic, 16 - 18 May 2018 2018 / p. 260-265 : ill <https://doi.org/10.1109/EPE.2018.8396039>

Economic analysis and impact on national grid by domestic photovoltaic system installations in Pakistan

Shabbir, Noman; Usman, Muhammad; Jawad, Muhammad; Zafar, Muhammad H.; **Iqbal, Muhammad Naveed;** **Kütt, Lauri** Renewable energy 2020 / p. 509-521 : ill <https://doi.org/10.1016/j.renene.2020.01.114> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Economic feasibility analysis for a residential building in Tallinn with high electricity consumption. A case study with suitable energy storage for the Estonian climate

Rikkas, Elina Rebecka 2020 17th International Conference on the European Energy Market (EEM) 2020 / 5 p
<https://doi.org/10.1109/EEM49802.2020.9221961>

An economical optimization for the participation of a residential microgrid in flexibility markets providing ancillary services

Alvi, Anas Abdullah; Gonzalez-Romera, Eva; Romero-Cadaval, Enrique; Vinnikov, Dmitri; Milanes-Montero, Maria Isabel; Barrero-Gonzalez, Fermin 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604394>

Eddy current loss reduction prospects in laser additively manufactured soft magnetic cores

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 1511-1516 <https://doi.org/10.1109/ICEM51905.2022.9910679>

Educating the energy informatics specialist : opportunities and challenges in light of research and industrial trends

Bordin, Chiara; Mishra, Sambeet; Safari, Amir; Eliassen, Frank SN Applied Sciences 2021 / art. 674 <https://doi.org/10.1007/s42452-021-04610-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

EDUTECH - good practices in cooperation between schools and academia attracting candidates for technical education

Rassõlkin, Anton; Vaimann, Toomas; Kudelina, Karolina; Stepień, Mariusz; Berger, Kevin 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 <https://doi.org/10.1109/RTUCON51174.2020.9316614>

Eessõna

Vaimann, Toomas; Risthein, Endel Eesti energeetika 100 aastat 2018 / lk. 9-10 https://www.ester.ee/record=b4774821*est

Eesti elektri tarbimiskaja ja tootva tarbimise simulatsioonianalüüs : uuringuaruanne

Kisel, Einari; Kuhi-Thalfeldt, Reeli; Agabus, Hannes; Vesioja, Kaija 2024 https://arenguseire.ee/wp-content/uploads/2024/06/2024_eeesti-elektri-tarbimiskaja-ja-tootva-tarbimise-simulatsioonianaluus_uuring.pdf

Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud : uurimistöö 1.1-4/2015/227/ Lep 15066 lõpparuanne [Võrguteavik]

Treufeldt, Ülo; Meldorf, Mati; Leinakse, Madis; Sarnet, Tanel; Salumäe, Uku; Kilter, Jako; Krusell, Kaur; Reinson, Andrus; Matjas, Ilja 2017 [Eesti elektrisüsteemi ülekandevõrgu koormuste staatilised ja dünaamilised karakteristikud](#)

Eesti elektritootmise tulevikuvõimalustest

Koduvere, Hardi; Tammoja, Heiki Elektriala 2019 / lk. 8-9 : ill http://www.ester.ee/record=b1240496*est
https://artiklid.elnet.ee/record=b2877865*est

Eesti elektrivõrkude ajalugu

2020 <https://www.ester.ee/record=b5298769>

Eesti Elektroenergeetika Seltsi juubelikonverents

Palu, Ivo; Pent, Brenda Elektriala 2022 / lk. 14-16 : fot https://www.ester.ee/record=b1240496*est

Eesti energeetika 100 aastat

Vaimann, Toomas; Risthein, Endel 2018 https://www.ester.ee/record=b4774821*est

Eesti energiasüsteemi lahtiühendamisest ning selle otstarbekusest

Raukas, Anto; Valdma, Mati Elektriala 2017 / lk. 12-13 https://artiklid.elnet.ee/record=b2829412*est

Eesti esimene mehitamata teaduslaev oskab iseseisvalt navigeerida

err.ee 2023 [Hundiipea sadamas lasti vette Eesti esimene isejuhitiv laev](#) [Eesti esimene mehitamata teaduslaev oskab iseseisvalt navigeerida](#) [Hundiipea sadamast väljus Eesti esimene isejuhitiv tehisintellektiga teaduslaev Heli](#)

Eesti idapiiri hakkab tulevikus turvama robotlaev, mis võib olla relvastatud

Muraveiski, Kristopher; Jõesaar, Jete-Ri delfi.ee 2025 <https://www.delfi.ee/artikkel/120390062/eeesti-idapiiri-hakkab-tulevikus-turvama-robotlaev-mis-voib-olla-relvastatud>

Eesti mesindus vajab uuendatud arengukava

Kilk, Aleksander Mesinik : mesindusajakiri 2024 / lk. 4-5 https://www.ester.ee/record=b1072594*est

Eesti noorte teaduste akadeemia valis uue juhatuse

sirp.ee 2025 <https://www.sirp.ee/eeesti-noorte-teaduste-akadeemia-valis-uue-juhatuse-2/>

Eesti talv ja tootja promo: millised on tegelikud väljakutsed elektriautode akude arendamisel? Teemat avab TalTechi professor

Rassõlkin, Anton digi.geenius.ee 2024 [Eesti talv ja tootja promo: millised on tegelikud väljakutsed elektriautode akude arendamisel? Teemat avab TalTechi professor](#)

Eesti teadlaste nutikad minuundurid hoogustavad energiapööret

Vinnikov, Dmitri; Chub, Andrii novaator.err.ee 2024 [Eesti teadlaste nutikad minuundurid hoogustavad energiapööret](#)

Eesti Teadus- ja Tehnikamuuseum ootab tasuvusuuringut

Kamps, Mari Inseneeria 2017 / lk. 44-47 : fot https://artiklid.elnet.ee/record=b2820595*est

Eesti tööstus on tarka võrku investeerimisel õigel teel, kuid napib insenere : ABB podcast

geenius.ee 2024 [Eesti tööstus on tarka võrku investeerimisel õigel teel, kuid napib insenere : ABB podcast](#)

Eesti Vabariik 100 : TEA entsüklopeedia eriväljaanne

Alatalu, Riin; Engelbrecht, Jüri; Gerndorf, Kostel; Hamburg, Arvi; Lumiste, Rünno; Nõlvak, Jaak; Orru, Mall 2017 http://www.ester.ee/record=b4748911*est

Eesti vajab kõrgtehnoloogilist tööstust

Alvela, Ain Tehnikamaailm 2023 / lk. 76 : fot https://www.ester.ee/record=b1073050*est

Eestlaslik trots tõmbab tuuleenergiale pidurit

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/eestlaslik-trots-tombab-tuuleenergiale-pidurit/>

EETEL 25 kui mittetulundusühing

Teemets, Raivo Elektriala 2020 / lk. 10 http://www.ester.ee/record=b1240496*est

EETELi sünnilugu. Kevadel loodud ühendus sai bürokraatia pidurite tõttu ametlikuks alles talvel

Elektriala 2025 / lk. 54-55 : fot, portr https://www.ester.ee/record=b1240496*est

The effect of build direction on the thermal conductivity of additively manufactured AIS10Mg and silicon-steel samples

Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 538-543 <https://doi.org/10.1109/ICEM51905.2022.9910944>

The effect of build direction on the thermal conductivity of additively manufactured AIS10Mg and silicon-steel samples : [conference paper]

Sarap, Martin 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 29-30 : ill https://www.ester.ee/record=b5504019*est

Effect of double-slope modulation signals on conducted emissions and efficiency of strongly coupled magnetic resonance WPT systems

Stepins, Deniss; Zakis, Janis; Audze, Janis; Husev, Oleksandr; Shevchenko, Viktor; Pakhaliuk, Bohdan 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2019 / 4 p <https://doi.org/10.1109/RTUCON48111.2019.8982351>

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](#)

Effect of electrode shape on medium voltage covered conductor insulation durability under electric stress

Kiitam, Ivar; Taklaja, Paul; Tuttelberg, Kaur 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659862>

Effect of hybrid modulation on performance of wireless battery charger operating in CC/CV mode

Stepins, Deniss; Kathari, N.; Zakis, Janis; Husev, Oleksandr; Pakhaliuk, Bohdan; Shevchenko, Viktor IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / 6 p <https://doi.org/10.1109/IECON48115.2021.9589544>

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 mechanical stress on magnetization and magnetostriction strain behavior of non-oriented Si-Fe steels at different directions and under pseudo-DC conditions

Lahyaoui, Otmame; Lanfranchi, Vincent; Buiron, Nicolas; Martin, Florian; Aydin, Ugur; **Belahcen, Anouar** International journal of applied electromagnetics and mechanics 2019 / p. 299-312 <https://doi.org/10.3233/JAE-180106>

Effect of mission profile resolution on photovoltaic energy yield prediction in Python and MATLAB

Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri; Blaabjerg, Frede 2021 IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2021 / 5 p. : ill <https://doi.org/10.1109/CPE-POWERENG50821.2021.9501222>

Effect of multi-axial stress on iron losses of electrical steel sheets

Aydin, Ugur; Rasilo, Paavo; Martin, Florian; **Belahcen, Anouar** Journal of magnetism and magnetic materials 2019 / p. 19-27 : ill <https://doi.org/10.1016/j.jmmm.2018.08.003>

Effects of stator core welding on an induction machine – measurements and modeling

Sundaria, Ravi; Daem, Andries; Osemwinyen, Osaruyi; Lehtikoinen, Antti; Sergeant, Peter; Arkkio, Antero; **Belahcen, Anouar** Journal of Magnetism and Magnetic Materials 2020 / art. 166280 <https://doi.org/10.1016/j.jmmm.2019.166280> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effects of voltage transients on the DC droop control in residential nanogrids

Roasto, Indrek; Blinov, Andrei; Vinnikov, Dmitri; Jalakas, Tanel 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227464>

Efficiency and loss distribution analysis of the 3L-Active NPC qZS inverter

Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Fernao Pires, Vitor; **Husev, Oleksandr** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 2018 / p. 449-454 : ill <https://doi.org/10.1109/CPE.2018.8372560>

Efficiency improvement of step-up series resonant DC-DC converter in buck operating mode

Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/RTUCON51174.2020.9316574>

Efficiency map comparison of induction and synchronous reluctance motors

Rassõlkin, Anton; Heidari, Hamidreza; Kallaste, Ants; Vaimann, Toomas; Acedo, Jaime Pando; Romero-Cadaval, Enrique 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia, 30th of January – 2nd of February 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/IWED.2019.8664334>

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

Husev, Oleksandr; Stepenko, Serhii; Vinnikov, Dmitri; Roncero, Carlos; Santasheva, Elena; Romero-Cadaval, Enrique IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4399-4404 <https://doi.org/10.1109/IECON.2019.8926655> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

An efficient assistance in cavity filter tuning using filter screw classification

Sekhri, Even; Tamre, Mart; Kapoor, Rajiv Advances in artificial-business analytics and quantum machine learning : select proceedings of the 3rd international conference, Com-IT-Con 2023, volume 1 2024 / p. 791-799 https://doi.org/10.1007/978-981-97-2508-3_58 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Efficient fixed-switching modulated finite control set-model predictive control based on artificial neural networks

Bakeer, Abualkasim Ahmed Ali; Alhasheem, Mohammed; Peyghami, Saeed Applied Sciences (Switzerland) 2022 / art. 3134 <https://doi.org/10.3390/app12063134> [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; Pefitsis, 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](#)

Ehitiste elektripaigaldised. Osa 5-51, Elektriseadmete valik ja paigaldamine. Üldjuhised = Electrical installations of buildings. Part 5-51, Selection and erection of electrical equipment. Common rules (IEC 60364-5-51:2005, modified) 2017 <https://www.evs.ee/tooted/evs-hd-60364-5-51-2009+a11+a12>

Ehitiste elektripaigaldised. Osa 5-51, Elektriseadmete valik ja paigaldamine. Üldjuhised [Võrguteavik] = Electrical installations of buildings. Part 5-51, Selection and erection of electrical equipment. Common rules 2017 http://www.eester.ee/record=b4741638*est

18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings]

2019 https://www.ester.ee/record=b5183874*est

Einari Kisel: ilustamata elektrivarustuskindlusest [Võrguväljaanne]

Kisel, Einari postimees.ee 2020 "[Einari Kisel: ilustamata elektrivarustuskindlusest](#)"

Einari Kisel: puhtama elektri poole [Võrguväljaanne]

Kisel, Einari postimees.ee 2020 [Einari Kisel: puhtama elektri poole](#)

Ekspertidid: päikesetormide mõju pärast tänapäeval enam muretsema ei pea

Piir, Rait novaator.err.ee 2024 [Ekspertidid: päikesetormide mõju pärast tänapäeval enam muretsema ei pea](#)

Electric and hybrid vehicles : From smart energy storage systems to mechanical transmission

Sekhri, Even; Mohamed, Mahmoud Ibrahim Hassanin; Zequera, Rolando Antonio Gilbert; Rassõlkin, Anton Smart Electric and Hybrid Vehicles : Advancements in Materials, Design, Technologies, and Modeling 2025 / p. 71-126
<https://doi.org/10.1002/9781394225040.ch3>

Electric drive for throttle control of centrifugal pump system

Gevorkov, Levon; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659845>

Electric power management and control in DC buildings—state-of-the-art and emerging technologies

Blinov, Andrei; Roasto, Indrek; Chub, Andrii; Emiliani, Pietro; Vinnikov, Dmitri Power Quality : Infrastructures and Control 2023 / p. 67-96 https://doi.org/10.1007/978-981-19-7956-9_3

Electric vehicle electric drive signal analysis and mapping of direct control possibilities

Rassõlkin, Anton; Sell, Raivo; Tihhonov, Kirill Международная научно-техническая конференция : АВТОМАТИЧЕСКИЙ КОНТРОЛЬ И АВТОМАТИЗАЦИЯ ПРОИЗВОДСТВЕННЫХ ПРОЦЕССОВ, 3-6 октября, 2018 г. : ПРОГРАММА КОНФЕРЕНЦИИ 2018 / p. 9 <https://www.belstu.by/Portals/0/userfiles/37/000-PROGRAMMA-konf--APP-2018.pdf>

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 and mechanical properties of service-aged medium voltage porcelain support insulators

Kiitam, Ivar; Saarna, Mart; Taklaja, Paul; Tealane, Marko; Palu, Ivo 2020 6th IEEE International Energy Conference (ENERGYCon) 2020 / p. 702-706 <https://doi.org/10.1109/ENERGYCon48941.2020.9236596>

Electrical and thermal anisotropy in additively manufactured AlSi10Mg and Fe-Si samples

Sarap, Martin; Tiismus, Hans; Kallaste, Ants; Saarna, Mart; Kolnes, Märt; Shams Ghahfarokhi, Payam; Vaimann, Toomas Machines 2025 / art. 1 <https://doi.org/10.3390/machines13010001>

Electrical machine research in TalTech

Vaimann, Toomas 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 39-40 : ill https://www.ester.ee/record=b5291755*est

Electrical resistivity of additively manufactured silicon steel for electrical machine fabrication

Tiismus, Hans; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton; Belahcen, Anouar 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818252>

Electricity market regulation: Global status, development trend, and prospect in China

Xu, Chengwei; Wen, Fushuan; Palu, Ivo Energy Conversion and Economics 2020 / p. 151-170 <https://doi.org/10.1049/enc2.12020>

Electrification of transportation: policy framework, technical aspects and challenges in Pakistan - A case study

Masood, Arsalan; Hassan, Syed Zulqadar; Kamal, Tariq; Khan, Salman; Rizvi, Syed Asad Abbas; Salman, Salman e-Prime - Advances in Electrical Engineering, Electronics and Energy 2024 / art. 100803, 18 p. : ill <https://doi.org/10.1016/j.prime.2024.100803>
[Journal metrics at Scopus](#) [Article at Scopus](#)

An electrolytic capacitor-less multiple-output LED driver with a universal input voltage

Awad, Khaled; Abdelrahim Abdelghafour, Omar Mohamed; Gaafar, Mahmoud A.; Orabi, Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 6 l.
<https://doi.org/10.1109/ENERGYCON53164.2022.9830255>

Elektri võrgutasu jääb kerkima ka järgmistel aastatel

Linnart, Mart err.ee 2024 [Elektri võrgutasu jääb kerkima ka järgmistel aastatel](#)

Elektriala doktoritöödest Tallinna Tehnikaülikoolis 1.

Vaimann, Toomas Elektriala 2022 / lk. 12-13 : fot https://www.ester.ee/record=b1240496*est

Elektriala doktoritöödest Tallinna Tehnikaülikoolis 2.

Vaimann, Toomas Elektriala 2022 / lk. 16-17 : fot https://www.ester.ee/record=b1240496*est

Elektriala saamislugu

Teemets, Raivo Elektriala 2024 / lk. 24-29 https://www.ester.ee/record=b1240496*est

Elektrienergia tootmise ja tarbimise jaotus on maailmas tunduvalt muutunud

Risthein, Endel Elektriala 2018 / lk. 28-30 https://artiklid.elnet.ee/record=b2859358*est

Elektrimasinate alused

Janson, Kuno; Kallaste, Ants 2017 http://www.ester.ee/record=b4694078*est <https://digikogu.taltech.ee/et/Item/eb44ad2b-8758-41cd-9483-f8fdb1d40a1c>

Elektrimasinate soojusarvutus on uute masinate projekteerimisel määrava tähtsusega

Vaimann, Toomas Elektriala 2020 / lk. 12-13 : ill http://www.ester.ee/record=b1240496*est

Elektrimasinate terviserikkeid aitaks ennetada tehisintellekt [Võrguväljaanne]

Kudelina, Karolina novaator.err.ee 2021 "[Elektrimasinate terviserikkeid aitaks ennetada tehisintellekt](#)"

Elektrimootorite 3D-printimine ei ole ulme

Vaimann, Toomas; Kallaste, Ants Director. Inseneeria 2021 / lk. 74-78 : fot <https://director.ee/2021/02/03/elektrimootorite-3d-printimine-ei-ole-ulme/> http://www.ester.ee/record=b2336521*est

Elektrimõõteseadmed. Osa 4, Erinõuded. Staatilised alalisvoolu aktiivenergia arvestid (klassid A, B ja C) = Electricity metering equipment. Part 4, Particular requirements. Static meters for DC active energy (class indexes A, B and C)

2023 https://www.ester.ee/record=b5652954*est

Elektrimõõteseadmed vahelduvvoolule. Osa 1, Üldnõuded, katsetused ja katsetingimused. Klassidesse A, B ja C kuuluvad arvestid [Võrguteavik] = Electricity metering equipment (a.c.). Part 1, General requirements, tests and test conditions. Metering equipment (class indexes A, B and C)

2019 https://www.ester.ee/record=b5201299*est

Elektrimõõteseadmed vahelduvvoolule. Osa 1, Üldnõuded, katsetused ja katsetingimused. Klassidesse A, B ja C kuuluvad arvestid [Võrguteavik] = Electricity metering equipment (a.c.). Part 1, General requirements, tests and test conditions. Metering equipment (class indexes A, B and C)

2019 https://www.ester.ee/record=b5201316*est

Elektrimõõteseadmed vahelduvvoolule. Osa 2, Erinõuded. Elektromehaanilised aktiivenergia arvestid (klass A ja B) [Võrguteavik] = Electricity metering equipment (a.c.). Part 2, Particular requirements. Electromechanical meters for active energy (class indexes A and B)

2019 https://www.ester.ee/record=b5201740*est

Elektrimõõteseadmed vahelduvvoolule. Osa 2, Erinõuded. Elektromehaanilised aktiivenergia arvestid (klass A ja B) [Võrguteavik] = Electricity metering equipment (a.c.). Part 2, Particular requirements. Electromechanical meters for active energy (class indexes A and B)

2019 https://www.ester.ee/record=b5201747*est

Elektrimõõteseadmed vahelduvvoolule. Osa 3, Erinõuded. Staatilised aktiivenergia arvestid (klass A, B ja C) [Võrguteavik] = Electricity metering equipment (a.c.). Part 3, Particular requirements. Static meters for active energy (class indexes A, B and C)

2019 https://www.ester.ee/record=b5201755*est

Elektrimõõteseadmed vahelduvvoolule. Osa 3, Erinõuded. Staatilised aktiivenergia arvestid (klass A, B ja C) [Võrguteavik] = Electricity metering equipment (a.c.). Part 3, Particular requirements. Static meters for active energy (class indexes A, B and C)

2019 https://www.ester.ee/record=b5202118*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 21, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,5, 1 ja 2) = Electricity metering equipment : particular requirements. Part 21, Static meters for AC active energy (classes 0,5, 1 and 2) (IEC 62053-21:2020)

2021 https://www.ester.ee/record=b5463945*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 21, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,5, 1 ja 2) = Electricity metering equipment : particular requirements. Part 21, Static meters for AC active energy (classes 0,5, 1 and 2)

2021 https://www.ester.ee/record=b5463969*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 22, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,1 S, 0,2 S ja 0,5 S) = Electricity metering equipment : particular requirements. Part 22, Static meters for AC active energy (classes 0,1 S, 0,2 S and 0,5 S) (IEC 62053-22:2020)

2021 https://www.ester.ee/record=b5463980*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 22, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,1 S, 0,2 S ja 0,5 S) = Electricity metering equipment : particular requirements. Part 22, Static meters for AC active energy (classes 0,1 S, 0,2 S and 0,5 S)

2021 https://www.ester.ee/record=b5463993*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 22, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,1 S, 0,2 S ja 0,5 S) = Electricity metering equipment : particular requirements. Part 22, Static meters for AC active energy (classes 0,1S, 0,2S and 0,5S) (IEC 62053-22:2020)

2021 https://www.ester.ee/record=b5435102*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 22, Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,1 S, 0,2 S ja 0,5 S) = Electricity metering equipment : particular requirements. Part 22, Static meters for AC active energy (classes 0,1 S, 0,2 S and 0,5 S) (IEC 62053-22:2020)

2021 https://www.ester.ee/record=b5463980*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 23, Staatilised reaktiivenergia arvestid (klassid 2 ja 3) = Electricity metering equipment : particular requirements. Part 23, Static meters for reactive energy (classes 2 and 3) (IEC 62053-23:2020)

2021 https://www.ester.ee/record=b5435109*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 23, Staatilised reaktiivenergia arvestid (klassid 2 ja 3) = Electricity metering equipment : particular requirements. Part 23, Static meters for reactive energy (classes 2 and 3) (IEC 62053-23:2020)

2021 https://www.ester.ee/record=b5464102*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 23, Staatilised reaktiivenergia arvestid (klassid 2 ja 3) = Electricity metering equipment : particular requirements. Part 23, Static meters for reactive energy (classes 2 and 3)

2021 https://www.ester.ee/record=b5464111*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 24, Staatilised põhisagedus-reaktiivenergia arvestid (klassid 0,5 S, 1 S, 1, 2 ja 3) = Electricity metering equipment : particular requirements. Part 24, Static meters for fundamental component reactive energy (classes 0,5S, 1S, 1, 2 and 3) (IEC 62053-24:2020)

2021 https://www.ester.ee/record=b5435137*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 24, Staatilised põhisagedus-reaktiivenergia arvestid (klassid 0,5 S, 1 S, 1, 2 ja 3) = Electricity metering equipment : particular requirements. Part 24, Static meters for fundamental component reactive energy (classes 0,5S, 1S, 1, 2 and 3) (IEC 62053-24:2020)

2021 https://www.ester.ee/record=b5465248*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 24, Staatilised põhisagedus-reaktiivenergia arvestid (klassid 0,5 S, 1 S, 1, 2 ja 3) = Electricity metering equipment : particular requirements. Part 24, Static meters for fundamental component reactive energy (classes 0,5S, 1S, 1, 2 and 3) (IEC 62053-24:2020)

2021 https://www.ester.ee/record=b5465245*est

Elektrimõõteseadmed [Võrguteavik] : erinõuded. Osa 21: Staatilised vahelduvvoolu aktiivenergia arvestid (klassid 0,5, 1 ja 2) = Electricity metering equipment. Particular requirements. Part 21: Static meters for AC active energy (classes 0,5, 1 and 2)(IEC 62053-21:2020)

2021 https://www.ester.ee/record=b5435094*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 3, Rikkesilmuse näivtakistus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 3, Loop impedance (IEC 61557-3:2019)

2022 https://www.ester.ee/record=b5509793*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 7, Faasijärjestus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 7, Phase sequence (IEC 61557-7:2019)

2022 https://www.ester.ee/record=b5509797*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 7, Faasijärjestus = Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC : equipment for testing, measuring or monitoring of protective measures. Part 7, Phase sequence (IEC 61557-7:2019/AMD1:2023)

2023 https://www.ester.ee/record=b5652663*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 7, Faasijärjestus = Electrical safety in low voltage distribution systems up to 1000 V AC and 1500 V DC : equipment for testing, measuring or monitoring of protective measures. Part 7, Phase sequence (IEC 61557-7:2019+IEC 61557-7:2019/AMD1:2023)

2023 https://www.ester.ee/record=b5651790*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 1, Üldnõuded = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 1, General requirements (IEC 61557-1:2019)

2021 https://www.ester.ee/record=b5479190*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 2, Isolatsioonitakistus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 2, Insulation resistance (IEC 61557-2:2019)

2021 https://www.ester.ee/record=b5479192*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 4, Maandusjuhtide ja potentsiaaliühthlustusjuhtide takistus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 4, Resistance of earth connection and equipotential bonding (IEC 61557-4:2019)

2021 https://www.ester.ee/record=b5479193*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 5, Maandustakistus = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 5, Resistance of earth (IEC 61557-5:2019)

2021 https://www.ester.ee/record=b5479568*est

Elektriohutus madalpingevõrkudes vahelduvpingega kuni 1000 V ja alalispingega kuni 1500 V [Võrguteavik] : kaitsesüsteemide katsetus-, mõõte- ja seireseadmed. Osa 6, Rikkevoolukaitseaparaatide tõhusus TT-, TN- ja IT-süsteemides = Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. : equipment for testing, measuring or monitoring of protective measures. Part 6, Effectiveness of residual current devices (RCD) in TT, TN and IT systems (IEC 61557-6:2019)

2021 https://www.ester.ee/record=b5479599*est

Elektriseadmed [Võrguteavik] : liigvoolukaitselülitid majapidamis- ja muudele taolistele paigaldistele. Osa 2, Vahelduv- ja alalisvoolul kasutatavad kaitselülitid = Electrical accessories : circuit-breakers for overcurrent protection for household and similar installations. Part 2, Circuit-breakers for a.c. and d.c. operation (IEC 60898-2:2016, modified)

2021 https://www.ester.ee/record=b5473393*est

Elektrisüsteemi arvutamise alused reaalajasimulatsioonide raamistikus : harjutused

Leinakse, Madis; Andreesen, Guido; Campos, Nathalia de Moraes Dias 2022 https://haldus.taltech.ee/sites/default/files/2023-02/EE_ins_Elektris%C3%BCsteemi_arvutamise_alused_reaalajasimulatsioonide_raamistikus_Harjutused.pdf

Elektritarkvõrgud ja virtuaalsed elektrijaamad

Rosin, Argo; Korõtko, Tarmo TööstusEST 2018 / lk. 32-34 : ill http://www.ester.ee/record=b4481084*est
<https://toostusest.ee/uudis/2018/09/04/virtuaalsed-elektrijaamad/> https://artiklid.elnet.ee/record=b2865323*est

Elektritootmine Eestis - kuhu edasi?

Palu, Ivo; Tull, Marek Elektriala 2023 / lk. 8-10 https://www.ester.ee/record=b1240496*est
<https://dea.digar.ee/article/AKelektriala/2023/10/0/10.1>

Elektritraktoriga otse merre? Miks ka mitte?

Tiidemann, Tiit Director. Inseneeria 2017 / lk. 108-111 : fot http://www.ester.ee/record=b1519314*est
https://artiklid.elnet.ee/record=b2824268*est

Elektrivõrkude arengust

Korõtko, Tarmo; Pettai, Elmo Elektriala 2018 / lk. 10-13 : ill http://www.ester.ee/record=b1240496*est
https://artiklid.elnet.ee/record=b2865343*est

Elektriõhuliinid vahelduvpingega üle 1 kV. Osa 2-20, Eesti riiklikud erinõuded (SEN) [Võrguteavik] = Overhead electrical lines exceeding AC 1 kV. Part 2-20, National Normative Aspects (NNA) for Estonia (based on EN 50341-1:2012)

2018 https://www.ester.ee/record=b5186383*est

Elektroenergeetika magistrandid otsisid oma lõputöodes lahendusi, kuidas tagada elektrivõrgu töökindlus ja kasumlikkus

Tealane, Marko Elektriala 2025 / lk. 30-31 : fot https://www.ester.ee/record=b1240496*est

Elektromagnetiline ühilduvus. Osa 6-1, Erialased põhistandardid. Häiringutaluvus olme-, kaubandus- ja väiketööstuskeskkondades [Võrguteavik] = Electromagnetic compatibility (EMC). Part 6-1, Generic standards. Immunity standard for residential, commercial and light-industrial environments (IEC 61000-6-1:2016)

2019 https://www.ester.ee/record=b5205425*est

Elektromagnetiline ühilduvus. Osa 6-2, Erialased põhistandardid. Häiringutaluvus tööstuskeskkondades [Võrguteavik] = Electromagnetic compatibility (EMC). Part 6-2, Generic standards. Immunity standard for industrial environments (IEC 61000-6-2:2016)

2019 https://www.ester.ee/record=b5205860*est

Elektromagnetmüra mõõtmisel tehakse palju vigu

Kütt, Lauri Elektriala 2024 / lk. 28-31 : fot., ill., portr https://www.ester.ee/record=b1240496*est

Elektromagnetmüra võib arvesti näidud sassi ajada ja teha muud kurja

Piir, Rait novaator.err.ee 2024 [Elektromagnetmüra võib arvesti näidud sassi ajada ja teha muud kurja](https://novaator.err.ee/2024/elektromagnetmüra-voib-arvesti-naidud-sassi-ajada-ja-teha-muud-kurja)

Elektromagnetväljad: masinate mäss või terviseoht?

Kütt, Lauri EhitusEST 2023 / lk. 24-27 : fot https://www.ester.ee/record=b4442657*est

An embedded half-bridge F-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](https://www.scopus.com/journal/view/doi/doi/10.3390/en14196433) [Article at Scopus](https://www.wos.org/doi/doi/10.3390/en14196433) [Journal metrics at WOS](https://www.wos.org/doi/doi/10.3390/en14196433) [Article at WOS](https://www.wos.org/doi/doi/10.3390/en14196433)

Emerging converter topologies and control for grid connected photovoltaic systems

2021 <https://doi.org/10.3390/books978-3-03943-910-2>

Emeriitprofessor Jaan Järvik 85!

Elektriala 2024 / lk. 22 : portr https://www.ester.ee/record=b1240496*est

Emeriitprofessor kiidab Sõnajalgade tuulikuid : alguses olin mina ka skeptiline [Elektrooniline teavik]

Järvik, Jaan ärileht.ee 2019 / [3] l. : ill <https://arileht.delfi.ee/news/uudised/emeriitprofessor-kiidab-sonajalgade-tuulikuid-alguses-olin-mina-ka-skeptiline?id=86180313>

EMSA 2016 publications chairs preface

Manzin, Alessandra; Asenjo, Agustina; Belahcen, Anouar; Butta, Mattia IEEE transactions on magnetics 2017 / 0200603, p. 1-3 : fot <https://doi.org/10.1109/TMAG.2017.2670446>

Enam kui 30 aastat koostööd Kempteni Kõrgkooliga

Rosin, Argo Mente et Manu 2023 / lk. 44-45 : fot https://www.ester.ee/record=b1242496*est

Encoderless rotor position estimation of a switched reluctance drive operated under model predictive control

Anuchin, Aleksey; Shpak, Dmitry; Demidova, Galina 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020
<https://doi.org/10.1109/RTUCON51174.2020.9316621>

End-user electricity consumption modelling for power quality analysis in residential building

Iqbal, Muhammad Naveed; Kütt, Lauri 2018 19th International Scientific Conference on Electric Power Engineering (EPE 2018) : Brno, Czech Republic, 16-18 May, 2018 2018 / 6 p. : ill <https://doi.org/10.1109/EPE.2018.8396030>

End-user electricity consumption modelling for power quality analysis of residential buildings

Iqbal, Muhammad Naveed; Kütt, Lauri 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 59-62 : ill http://ise.elnet.ee/record=b2950015~S2*est

Enefit Green: Baltic Sea ice ups cost of wind turbine construction

Klementi, Joakim news.err.ee 2023 [Enefit Green: Baltic Sea ice ups cost of wind turbine construction](#)

Enefit Green: jäine meri teeb tuulikute rajamise kallimaks

Klementi, Joakim err.ee 2023 [Enefit Green: jäine meri teeb tuulikute rajamise kallimaks](#)

Enefit Green: замерзшее море делает строительство ветряков дороже

Klementi, Joakim rus.err.ee 2023 [Enefit Green: замерзшее море делает строительство ветряков дороже](#)

Enefit oil factory (Enefit 280 and Enefit 280-2) plant controller algorithm

Sarnet, Tanel; Kilter, Jako 2022

Energeetikaekspertid lasevad valitsusliidu energiaplaani sõelapõhjaks

Pott, Toomas err.ee 2025 [Energeetikaekspertid lasevad valitsusliidu energiaplaani sõelapõhjaks](#)

Energeetikanõukogu

Hamburg, Arvi Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientiarum Estonicae 2016 2017 / lk. 35-37 http://www.ester.ee/record=b1218094*est

Energeetikas osutub kõige kallimaks teistest sõltumine

Palu, Ivo TööstusEST 2025 / lk. 45 : portr https://www.ester.ee/record=b4481084*est

Energeetikateadlane Ivo Palu: jätkusuutlik oleks kombinatsioon – päike, tuul ning biomass ja põlevkivi

Alvela, Ain virumaateataja.postimees.ee 2023 [Energeetikateadlane Ivo Palu: jätkusuutlik oleks kombinatsioon – päike, tuul ning biomass ja põlevkivi](#)

Energeetiku rõõmuhetk : tahan siiralt toetada ja julgustada naisi nende enda teed järgima

Kudelina, Karolina postimees.ee 2024 [Energeetiku rõõmuhetk: tahan siiralt toetada ja julgustada naisi nende enda teed järgima](#)

Energia trilemma tulevikus

Tamm, Liivi TööstusEST 2023 / lk. 18-20 : fot https://www.ester.ee/record=b4481084*est

Energiasektori kese nihkub tulevikus lõpptarbija telefoni [Võrguväljaanne]

Mishra, Sambeet; Crasta, Cletus J. novaator.err.ee 2021 ["Energiasektori kese nihkub tulevikus lõpptarbija telefoni "](#)

Energiat tootev teekatend nüüd ka Eestis

Jalakas, Tanel; Chub, Andrii; Vinnikov, Dmitri; Spalatu, Nicolae; Gudkova, Viktoria; **Krunks, Malle; Mere, Arvo; Lahi, Allan;** Lindvest, Andre Elektriala 2023 / lk. 14-16 : portr., fot https://www.ester.ee/record=b1240496*est

Energy co-pricing in an integrated energy system for promoting electric energy substitution

Wang, Yizheng; Duan, Shuyin; **Wen, Fushuan; Palu, Ivo;** Xue, Yusheng 2020 International Conference on Smart Grids and Energy Systems (SGES): 23-26 Nov. 2020 2020 / p. 60-65 <https://doi.org/10.1109/SGES51519.2020.00018>

Energy council

Hamburg, Arvi Estonian Academy of Sciences year book 2016 2017 / p. 39-41

Energy management for an integrated energy system with data centers considering carbon trading

Wang, Yizheng; Li, Zhonghui; **Wen, Fushuan; Palu, Ivo;** Sun, Yikai; Zhang, Lijun; Gao, Meijin 2020 IEEE Power & Energy Society General Meeting (GM 2020) 2020 / 5 I <https://doi.org/10.1109/PESGM41954.2020.9281980>

Energy management in a centrifugal pumping plant

Vodovozov, Valery; Raud, Zoja 17th IEEE International Conference on Smart Technologies : IEEE EUROCON 2017 : 6-8 July 2017, Ohrid, Macedonia : conference proceedings 2017 / p. 347-352 : ill <https://doi.org/10.1109/EUROCON.2017.8011133>

Energy management in residential DC microgrids - droop control-based approach

Hasan, Sayeed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri Future Frontiers : PhD Conference on Emerging Technologies : Book of Abstracts 2025 / p. 23 ; poster 14 https://tuit.ut.ee/sites/default/files/2025-05/PhD%20Conference%202025%20Book%20of%20Abstracts_pub3.pdf

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 router based energy management system for nearly zero energy buildings

Najafzadeh, Mahdiyyeh; **Roasto, Indrek**; **Jalakas, Tanel** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982366>

Energy saving in centrifugal pumps using mutual pressure and flowrate control

Serbin, Aleksandr; **Petlenkov, Eduard**; **Vodovozov, Valery** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [5] p. : ill <http://dx.doi.org/10.1109/RTUCON.2017.8124805>

Energy scheduling and flexibility quantification in buildings

Ahmadihangar, Roya; **Blinov, Andrei**; Pefitsis, Dimosthenis Distributed energy systems : design, modeling, and control 2023 / p. 249-259 : ill <https://doi.org/10.1201/9781003229124-16>

Energy scheduling of battery storage systems in micro grids

Armstorfer, Andreas; Biechl, Helmuth; **Rosin, Argo** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2017 / p. 27-33 : ill <https://doi.org/10.1515/ecce-2017-0004>

Energy storage and forecasting error impact analysis in photovoltaic equipped residential nano-grids

Hokmabad, Hossein Nouroollahi; **Husev, Oleksandr**; **Belikov, Juri**; **Vinnikov, Dmitri**; **Petlenkov, Eduard** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p. <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227406>

Energy storage expansion planning in microgrid

Ahmadihangar, Roya; **Baharvandi, Amir**; **Rosin, Argo**; **Häring, Tobias**; **Azizi, Elnaz**; **Korötko, Tarmo**; **Shabbir, Noman** Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 433-437 <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161502>

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** Emerging converter topologies and control for grid connected photovoltaic systems 2021 / p. 323-338 : ill <https://doi.org/10.3390/books978-3-03943-910-2>

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 supply and storage optimization for mixed-type buildings

Rikkas, Elina Rebecka; Lahdelma, Risto Energy 2021 / art. 120839 <https://doi.org/10.1016/j.energy.2021.120839>

Energy trading and management strategies in a regional integrated energy system with multiple energy carriers and renewable-energy generation

Wang, Yizheng; Jiang, Chenwei; **Wen, Fushuan**; Xue, Yusheng; Chen, Fei; Zhang, Lijun; Yuan, Xiang Journal of energy engineering 2021 / p. 04020076-1-04020076-12 : ill [https://doi.org/10.1061/\(ASCE\)EY.1943-7897.0000726](https://doi.org/10.1061/(ASCE)EY.1943-7897.0000726) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy transition impact assessment methodology for fossil fuel based energy systems = Fossilsetel kütustel pöhinevate energiamajanduste ümberkorraldamise mõjude hindamise metoodika

Härm, Mihkel 2020 <https://digikogu.taltech.ee/et/Item/3087bc85-dafc-4489-98bb-0ee9dbd26b27>

Energy yield assessment methodology for photovoltaic microinverters

Chub, Andrii; **Kosenko, Roman**; **Korkh, Oleksandr**; **Vinnikov, Dmitri**; Kouro, Samir 2019 IEEE 15th Brazilian Power Electronics Conference and 5th IEEE Southern Power Electronics Conference (COBEP/SPEC 2019) Santos, Brazil, 1-4 December 2019 2019 / p. 1178-1183 : ill <http://toc.proceedings.com/52923webtoc.pdf>

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](#)

Engineering students mobility: intercultural barriers to achieving intercultural competences

Vodovozov, Valery; Raud, Zoja Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 248-255 https://doi.org/10.1007/978-3-030-68201-9_78
[Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Enhanced switched impedance inverter with tapped inductor

Nozadian, Mohsen Hasan Babayi; **Hassanpour, Naser; Khan, Salman** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604411>

Enhancing grid-forming converters control in hybrid AC/DC microgrids using bidirectional virtual inertia support

Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Abid, Abderahmane; Zaid, Sherif A.; Alghamdi, T. A. H.; Salama, Hossam S. Processes 2024 / art. 139 <https://doi.org/10.3390/pr12010139> <https://www.mdpi.com/2227-9717/12/1/139/htm> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancing PV hosting capacity and mitigating congestion in distribution networks with deep learning based PV forecasting and battery management

Shabbir, Noman; Kütt, Lauri; Astapov, Victor; Daniel, Kamran; Jawad, Muhammad; **Husev, Oleksandr; Rosin, Argo;** Martins, Joao Applied energy 2024 / art. 123770 <https://doi.org/10.1016/j.apenergy.2024.123770> [Journal metrics at Scopus](#) [Article at Scopus](#)
[Journal metrics at WOS](#) [Article at WOS](#)

Enhancing transmission line reliability : an AI-driven approach to fault identification and classification

Shabbir, Noman; Kamran, Daniel; Raja, Hadi Ashraf Electronics 2024

ENTA president: napp järelkasv ohustab eestikeelse kõrghariduse tulevikku

Vaimann, Toomas; Oidermaa, Jaan-Juhan novaator.err.ee 2023 [ENTA president: napp järelkasv ohustab eestikeelse kõrghariduse tulevikku](#)

Envisioning the future renewable and resilient energy grids – a power grid revolution enabled by renewables, energy storage, and energy electronics

Peng, Fang Zheng; Liu, Chen-Ching; Li, Yuan; Jain, Akshay Kumar; **Vinnikov, Dmitri** IEEE journal of emerging and selected topics in industrial electronics 2024 / p. 8-26 <https://doi.org/10.1109/JESTIE.2023.3343291>

Equivalent strain and stress models for the effect of mechanical loading on the permeability of ferromagnetic materials

Rasilo, Paavo; Aydin, Ugur; Martin, Florian; **Belahcen, Anouar;** Kouhia, Reijo; Daniel, Laurent IEEE transactions on magnetics 2019 / art. 2002104, <https://doi.org/10.1109/TMAG.2018.2890407>

The Erasmus+ strategic partnership as a way to attract young people to engineering

Stepien, Mariusz; Berger, Kevin; **Rassõlkin, Anton; Vaimann, Toomas** Advances in Human Factors in Training, Education, and Learning Sciences : Proceedings of the AHFE 2019 International Conference on Human Factors in Training, Education, and Learning Sciences, July 24-28, 2019, Washington D.C., USA 2020 / p. 252-259 https://doi.org/10.1007/978-3-030-20135-7_25 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Erko Lepa: inseneriharidus annab baasi ükskõik mis valdkonda liikumiseks

Lepa, Erko Elektriala 2020 / lk. 22-23 : fot http://www.ester.ee/record=b1240496*est <https://new.abb.com/news/et/detail/63276/erko-lepa-inseneriharidus-annab-baasi-ukskoik-mis-valdkonda-liikumiseks>

Establishing visualization-to-hardware communication through middleware for digital twin with ROS-compatible microcontrollers latency tests

Belolipetskaja, Diana; Rassõlkin, Anton; Raja, Hadi Ashraf; Stupans, Andrejs; Maksimkins, Pavels Proceeding of EAI International Conference of Robotic Sensor Networks (ROSENET) 2024 2025

Estimation and conversion of static load models of aggregated transmission system loads = Ülekandevõrgu sõlmekoormuste staatiliste koormusmudelite määramine ja teisendamine

Leinakse, Madis 2022 <https://doi.org/10.23658/taltech.3/2022> <https://digikogu.taltech.ee/et/Item/f179e30b-3265-4cc4-94d5-29750f3e9bfb>
https://www.ester.ee/record=b5491230*est

Estimation of exponential and ZIP load model of aggregated load with distributed generation

Leinakse, Madis; Andreesen, Guido; Tani, Pärtel; Kilter, Jako 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / p. 1-6 <https://doi.org/10.1109/RTUCON53541.2021.9711702>

Estimation of harmonic emission of electric vehicles and their impact on low voltage residential network

Iqbal, Muhammad Naveed; Kütt, Lauri; Daniel, Kamran; Asad, Bilal; Shams Ghahfarokhi, Payam Sustainability 2021 / art. 8551 <https://doi.org/10.3390/su13158551> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimation of hybrid energy generation of solar-wind tower for electric vehicle charging : a case study of Indian highway
Singh, Samarendra Pratap; Tiwari, Prabhakar; **Singh, Praveen Prakash**; Singh, Sri Niwas Energy Storage 2024 / art. e70004
<https://doi.org/10.1002/est2.70004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimation of peak voltage value and its occurrence timing upon non-sinusoidal supply voltage
Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; **Shabbir, Noman**; **Jarkovoi, Marek** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / p. 1-6
<https://doi.org/10.1109/CPE-POWERENG60842.2024.10604412>

Estimation of power system inertia from ambient wide area measurements
Tuttelberg, Kaur; Kilter, Jako; Wilson, Douglas; Uhlen, Kjetil 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 1 p <https://doi.org/10.1109/PESGM40551.2019.8973822>

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 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](#)

Estonia Plans to Deploy Armed Robot Ships to Patrol Eastern Waters Along Russian Border
balticsentinel.eu 2025 <https://balticsentinel.eu/8285927/estonia-plans-to-deploy-armed-robot-ships-to-patrol-eastern-waters-along-russian-border>

Ettevõtluse ja teaduse koostööst inseneri pilgu läbi
Rosin, Argo Äripäev 2019 / Tööstusuudised, lk. 16-17

EU electricity market design issues and solutions for increased RES penetration
Crasta, Cletus J.; Agabus, Hannes; Palu, Ivo 2020 17th International Conference on the European Energy Market (EEM 2020) 2020 <https://doi.org/10.1109/EEM49802.2020.9221997>

Euroopa perutav roheratsu
Rosin, Argo; Drovtar, Imre Postimees 2021 / Lk. 6-7

EuroTeQ as an alliance to promote European engineering education
Vodovozov, Valery; Raud, Zoja; Lehtla, Madis Proceedings of the 15th International Conference on Computer Supported Education (CSEDU 2023). Vol. 2 2023 / p. 601-607 <https://doi.org/10.5220/0011824900003470>

EuroTeQ Project : first impressions and estimates
Vodovozov, Valery; Lehtla, Madis; Raud, Zoja 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 5 p
<https://doi.org/10.1109/RTUCON56726.2022.9978799>

EV battery charging converters with wide output DC voltage range
Nadeem, Mohammad Mahad; Blinov, Andrei; Vinnikov, Dmitri 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p
<https://doi.org/10.1109/RTUCON60080.2023.10412960>

Evaluation of 3D-printed magnetic materials for additively-manufactured electrical machines
Selema, Ahmed; Beretta, Margherita; Van Coppenolle, Matty; **Tiismus, Hans; Kallaste, Ants**; Ibrahim, Mohamed N.; Rombouts, Marleen; Vleugels, Jozef; Kestens, Leo A.I.; Sergeant, Peter Journal of magnetism and magnetic materials 2023 / art. 170426, 12 p. : ill <https://doi.org/10.1016/j.jmmm.2023.170426> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of dual-active bridge converter for DC energy buildings
Carvalho da Silva, Edivan Laercio; Blinov, Andrei; Sidorova, Aleksandra; Chub, Andrii; Vinnikov, Dmitri 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p
<https://doi.org/10.1109/CPE-POWERENG58103.2023.10227460>

Evaluation of losses in three-level neutral-point-clamped and T-type quasi-Z-source inverters with modified carrier based modulation method
Ruiz-Cortes, M.; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; Gonzalez-Romera, Eva; **Husev, Oleksandr** 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 / p. 638-643 : ill <https://doi.org/10.1109/CPE.2017.7915247>

Evaluation of low- and high-voltage GaN transistors in soft-switching DC-DC converter

Blinov, Andrei; Kosenko, Roman; Chub, Andrii 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 544-547 : ill <https://doi.org/10.1109/UKRCON.2017.8100299>

The evaluation of substations asset management methods cost-efficiency by using numerical simulations

Andreesen, Guido 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 83-84 : ill https://www.ester.ee/record=b5504019*est

Event-triggered cooperative control of distributed generators in a distribution network subject to jamming attacks

Xu, Yan; **Wen, Fushuan; Palu, Ivo** 2020 International Conference on Smart Grids and Energy Systems (SGES): 23-26 Nov. 2020 2020 / p. 95-99 <https://doi.org/10.1109/SGES51519.2020.00024>

EV-Permanent magnet synchronous motor control strategy evaluation based on digital twin concept

Mohamed, Mahmoud Ibrahim Hassanin; Rjabtšikov, Viktor 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227410>

EV-powertrain test bench for digital twin development

Rjabtšikov, Viktor; Mohamed, Mahmoud Ibrahim Hassanin; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 559-563 : ill <https://doi.org/10.1109/PEMC51159.2022.9962879>

An EV-traction inverter data-driven modelling for digital twin development

Ibrahim, Akram Abdalla Mohammed; Raja, Hadi Ashraf; Rassölkin, Anton; Vaimann, Toomas; Kallaste, Ants 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p. : ill <https://doi.org/10.1109/EPE58302.2023.10149230>

Example of automatic safety systems based on power line communication and Microsoft Azure

Daukaev, Kamil; Rassölkin, Anton; Belahcen, Anouar 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 95-96 : ill http://www.ester.ee/record=b4650094*est

Experimental analysis of cost optimization for electrical floor heating systems in volatile energy markets

Uuemaa, Madis; Uleksin, Taaniel; Tammoja, Heiki 2017 International Conference on Control, Artificial Intelligence, Robotics & Optimization (ICCAIRO), 20-22 May 2017 : proceedings 2017 / p. 177-181 <http://doi.ieeecomputersociety.org/10.1109/ICCAIRO.2017.42>

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 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; Pimentel, Sergio Pires; Santasheva, Elena Emerging converter topologies and control for grid connected photovoltaic systems 2021 / P. 121-137 : ill <https://doi.org/10.3390/books978-3-03943-910-2>

Experimental determination of equivalent circuit parameters for a synchronous generator

Naseer, Muhammad Usman; Asad, Bilal; Shams Ghahfarokhi, Payam; Kallaste, Ants; Vaimann, Toomas; Rassölkin, Anton 2021 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream): proceedings of the conference, April 22, 2021, Vilnius, Lithuania 2021 / 7 p. : ill <https://doi.org/10.1109/eStream53087.2021.9431442>

Experimental efficiency and thermal parameters evaluation in Full-SiC Quasi-Z-Source inverter

Pimentel, Sergio Pires; Husev, Oleksandr; Vinnikov, Dmitri; Pires Pimentel, Sergio; Prystupa, Anatoliy 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982288>

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 high viscosity on oil spray cooling system with hairpin winding

Shams Ghahfarokhi, Payam; Kallaste, Ants; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; Vaimann, Toomas; Sarap, Martin; Rjabtšikov, Viktor 2023 IEEE 14th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED) 2023 / p. 234-238 <https://doi.org/10.1109/SDEMPED54949.2023.10271484>

Experimental measurements and numerical modelling of additively manufactured Fe-Si cores

Stella, Marco; Faba, Antonio; Fulginei, F. Riganti; Quercio, Michele; Scorretti, Riccardo; Bertolini, Vittorio; Sabino, Luis Gustavo; **Tiismus, Hans; Kallaste, Ants**; Cardelli, Ermanno Journal of magnetism and magnetic materials 2024 / art. 171752
<https://doi.org/10.1016/j.jmmm.2024.171752> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental performance validation of Z-source DC circuit breaker for high impedance faults

Pogulaguntla, Aditya; Naik Banavath, Satish; **Chub, Andrii; Vinnikov, Dmitri**; Singh, Rajendra 2024 IEEE Sixth International Conference on DC Microgrids (ICDCM) 2024 / 5 p <https://doi.org/10.1109/ICDCM60322.2024.10664702>

Experimental prototype of high-efficiency wind turbine based on Magnus effect

Lukin, Aleksandr; Demidova, Galina; Lukichev, Dmitry; Rassölkin, Anton; Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 6 p <https://doi.org/10.1109/IWED48848.2020.9069565>

Experimental verification of a two-stage bidirectional DC/DC converter with separated commutation and asymmetrical structure of current-source stage

Ivakhno, Volodymyr; Zamaruev, Volodymyr; Styslo, Bogdan; **Blinov, Andrei** 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 369-374 : ill <https://doi.org/10.1109/UKRCON.2019.8879821>

Experimental verification of two-stage power converter with current-fed soft-switching front-end for battery storage applications

Kosenko, Roman; Blinov, Andrei; Korkh, Oleksandr 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 1599-1608 : ill <https://ieeexplore.ieee.org/document/8515580>

Experimentally adjusted modelling and simulation technique for a catamaran autonomous surface vessel

Astrov, Igor; Udal, Andres; Mölder, Heigo; Jalakas, Tanel; Möller, Taavi International Conference on Electrical, Computer, and Energy Technologies, ICECET 2022, Prague, Czech Republic, July 20-22, 2022 2022 / 7 p. : ill <https://doi.org/10.1109/ICECET55527.2022.9873069>

Expert: Selling solar electricity to grid will become costlier

Pott, Toomas news.err.ee 2023 [Expert: Selling solar electricity to grid will become costlier](#)

Experts: No need to worry about the impact of solar storms today

Piir, Rait news.err.ee 2024 [Experts: No need to worry about the impact of solar storms today](#)

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](#)

Exploratory data analysis for demand-side flexibility quantification

Shahid, Arqum; Ahmadiyahangar, Roya; Rosin, Argo; Maask, Vahur; Martins, João F. 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227408>

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 ZVS-On/ZCS-Off range for CF-DAB converter under DCM operation for residential energy storage systems

Carvalho da Silva, Edivan Laercio; Cardoso, Rafael; Felipe, Carla Aparecida; Stein, Carlos Marcelo De Oliveira; Bellinaso, Lucas Vizzotto; Michels, Leandro; **Vinnikov, Dmitri** IEEE Access 2023 / p. 119231-119243 <https://doi.org/10.1109/ACCESS.2023.3327219>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fabrication of polydimethylsiloxane stamps

Dhoska, Klodian; Sinani, Uljan; Komina, Bledar 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 11-14 : ill http://www.ester.ee/record=b4650094*est

A family of bidirectional solid-state circuit breakers with increased safety in DC microgrids

Rahimpour, Saeed; Husev, Oleksandr; Vinnikov, Dmitri IEEE transactions on industrial electronics 2023 / p. 10919-10929
<https://doi.org/10.1109/TIE.2023.3337493> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A fast current harmonic detection and mitigation strategy for shunt active filter

Firouzjah, Khalil Gorgani; **Ahmadihangar, Roya; Rosin, Argo; Häring, Tobias** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärđla, Estonia, June 12-15, 2019 : proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/PQ.2019.8818253>

Fast path-oriented strategy for power system restoration

Liang, Bomiao; Xu, Yan; **Wen, Fushuan; Palu, Ivo**; Liu, Weijia; Shan, Huiyu 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärđla, Estonia, June 12-15, 2019 : proceedings 2019 / 8 p <https://doi.org/10.1109/PQ.2019.8818244>

Fast precise eddy current measurement of metals

Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Annus, Paul; Pokatilov, Andrei 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409781>

Fault analysis and field experiences of central inverter based 2 MW PV plant

Dumnic, Boris; **Liivik, Elizaveta**; Milicevic, Dragan 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 2281-2290 : ill <https://ieeexplore.ieee.org/document/8515423>

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 detection and predictive maintenance of electrical machines : perspective chapter

Raja, Hadi Ashraf; Kudelina, Karolina; Asad, Bilal; Vaimann, Toomas New Trends in Electric Machines - Technology and Applications 2022 <https://doi.org/10.5772/intechopen.107167>

Fault diagnosis and identification of malfunctioning protection devices in a power system via time series similarity matching

Xu, Bing; Wang, Chongyu; **Wen, Fushuan; Palu, Ivo**; Pang, Kaiyuan Energy Conversion and Economics 2020 / p. 81-92 <https://doi.org/10.1049/enc2.12008>

Fault diagnosis of additional vibration in Cartesian robot

Autsou, Siarhei 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 21-22 : ill https://www.ester.ee/record=b5504019*est

Fault diagnosis of output-side diode-bridge in isolated DC-DC series resonant converter

Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 <https://doi.org/10.1109/ENERGYCON53164.2022.9830339>

Fault diagnosis of the tooth belt transmission of Cartesian robot

Autsou, Siarhei; Vaimann, Toomas; Rassõlkin, Anton; Asad, Bilal; Kudelina, Karolina; Huynh, Van Khang 2022 29th International Workshop on Electric Drives : Advances in Power Electronics for Electric Drives : IWED2022 : Moscow Power Engineering Institute, Moscow, Russia : 26th– 29th of January 2022 : Proceedings 2022 / 6 p <https://doi.org/10.1109/IWED54598.2022.9722578>

Fault diagnosis system of Cartesian robot for various belt tension

Autsou, Siarhei; Vaimann, Toomas; Rassõlkin, Anton; Kudelina, Karolina 2022 International Conference on Diagnostics in Electrical Engineering (Diagnostics) 2022 / 4 I <https://doi.org/10.1109/Diagnostics55131.2022.9905111>

Fault management techniques to enhance the reliability of power electronic converters : an overview

Rahimpour, Saeed; Husev, Oleksandr; Vinnikov, Dmitri; Vosoughi Kurdkandi, Naser; Tarzamni, Hadi IEEE Access 2023 / p. 13432-13446 <https://doi.org/10.1109/ACCESS.2023.3242918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fault simulation and analysis of high-voltage circuit breaker's spring charging mechanism using a universal motor model

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Kilter, Jako; Sardar, Muhammad Usman 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p <https://doi.org/10.1109/RTUCON62997.2024.10830846>

Fault tolerant control and diagnosis strategies for cartesian industrial robot motion control planning system =

Tõrketaluvusega juhtimis- ja diagnostikastrateegiad tööstusliku karteesianroboti liikumise planeerimise juhtimissüsteemi jaoks

Autsou, Siarhei 2025 https://www.ester.ee/record=b5734587*est <https://digikogu.taltech.ee/et/Item/c9afdbf3-354b-41f5-a705-ed924a2af21> <https://doi.org/10.23658/taltech.14/2025>

Fault tolerant control of a grid-connected microgrid with high penetration of renewable energy

Senanayaka, Jagath; Khang, Huynh Van; **Vaimann, Toomas; Rassõlkin, Anton** 24th International Conference on Electrical

Fault-tolerant approach for photovoltaic module-level power electronic applications

Vinnikov, Dmitri; Chub, Andrii; Korkh, Oleksandr; Malinowski, Mariusz 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 438-444 : ill <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161599>

Fault-tolerant bidirectional series resonant DC-DC converter with minimum number of components

Vinnikov, Dmitri; Chub, Andrii; Korkh, Oleksandr; Malinowski, Mariusz 2019 IEEE Energy Conversion Congress and Exposition, ECCE, 2019-09-29 - 2019-10-03, Baltimore, MD, USA 2019 / p. 1359–1363 <https://doi.org/10.1109/ECCE.2019.8912292>

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](#)

Fault-tolerant galvanically isolated DC/DC converters with zero redundancy = Null-liiasusega veatolerantsed galvaanilis isolatsiooniga alalispingemuundurid

Bakeer, Abualkasim Ahmed Ali 2023 <https://doi.org/10.23658/taltech.18/2023> <https://digikogu.taltech.ee/et/Item/a9433801-e32e-4f98-af87-454e414646f4> https://www.ester.ee/record=b5558648*est

Fault-tolerant high step-up DC-DC converters

Chub, Andrii 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 67-68 : ill https://www.ester.ee/record=b5291755*est

Fault-tolerant soft-switching current-fed DC-DC converter

Zinchenko, Denys; Kosenko, Roman; Blinov, Andrei; Vinnikov, Dmitri 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 437-440 : ill <https://doi.org/10.1109/UKRCON.2019.8879973>

FCS-model predictive control of a quadratic buck converter for more efficient data centers

Azadi, Shirin; Flores-Bahamonde, Freddy; Alireza Davari, S.; Torres-Pinzon, C. A.; **Chub, Andrii;** Rodriguez, Jose 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p
<https://doi.org/10.1109/CPE-POWERENG58103.2023.10227387>

Feasibility investigation for residential battery sizing considering EV charging demand

Shabbir, Noman; Kütt, Lauri; Daniel, Kamran; Astapov, Victor; Raja, Hadi Ashraf; Iqbal, Muhammad Naveed; Husev, Oleksandr Sustainability 2022 / art. 1079 <https://doi.org/10.3390/su14031079> [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 Industrial and Technological Applications of Power Electronics Systems 2021 / p. 315-330 <https://doi.org/10.3390/en13174535>

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 a DC house connected to a conventional AC distribution network

Hokmabad, Hossein Nourollahi; Shabir, Noman; Astapov, Victor; Petlenkov, Eduard; Husev, Oleksandr; Belikov, Juri 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p
<https://doi.org/10.1109/CPE-POWERENG60842.2024.10604419>

Feasibility study of energy supply in deep North Regions: the case study of Yakutia remote community (Russia)

Trashchenkov, Sergei; **Astapov, Victor; Kull, Karl** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/PQ.2019.8818238>

Feasibility study of high-power density of modified isolated CLLC DC-DC interface with wide range of voltage/current regulation

Husev, Oleksandr; Matiushkin, Oleksandr; Mohseni, Parham; Canales, Francisco PCIM Europe 2024 2024 / 10 p
<https://doi.org/10.30420/566262111> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Feasibility study of interleaving approach for buck-boost inverter with unfolding circuit

Fesenko, Artem; **Matiushkin, Oleksandr; Husev, Oleksandr;** Khandakji, Kamal; Velihorskyi, Oleksandr 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering : UKRCON-2019 : conference proceedings 2019 / p. 415–419 : ill <https://doi.org/10.1109/UKRCON.2019.8879966>

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 three-phase modular converter for dual-purpose application in DC and AC microgrids

Roncero-Clemente, Carlos; Husev, Oleksandr; Matiushkin, Oleksandr; Gutierrez-Escalona, Javier; Barrero-Gonzalez, Fermin; Vinnikov, Dmitri; Strzelecki, Ryszard IEEE journal of emerging and selected topics in power electronics 2024 / p. 1348-1358 <https://doi.org/10.1109/JESTPE.2023.3247960> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Feasibility study of universal power electronics interface operation in 350 V and 700 V residential DC microgrids

Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227441>

Features extraction of wind ramp events from a virtual wind park

Mishra, Sambeet; Ören, Esin; Bordin, Chiara; Wen, Fushuan; Palu, Ivo Energy reports 2020 / p. 237-249 <https://doi.org/10.1016/j.egyr.2020.08.047> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The FEM based modeling and corresponding test rig preparation for broken rotor bars analysis

Asad, Bilal; Eensalu, Lauri; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 9 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982350>

Festival täitis Karksi-Nuia meelõhnaga

Kilk, Aleksander Mesinik : mesindusajakiri 2023 / lk. 17-19 : fot https://www.ester.ee/record=b1072594*est

Finite element analysis based technique implementation for fault diagnostic of electrical machines

Akbar, Siddique 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 103-104 https://www.ester.ee/record=b5570906*est

First results on load model estimation using digital fault recorder measurements

Leinakse, Madis; Sarnet, Tanel; Kangro, Triin; Kilter, Jako 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 101-105 : ill http://www.ester.ee/record=b4650094*est

First year PhD studies : modifying price based set point calculation algorithms for use in off-grid mode

Häring, Tobias 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 181-182 : ill https://www.ester.ee/record=b5183874*est

Flexibility enhancement of hybrid microgrids using optimal H[∞] filtering-based fuzzy control of UIPC

Zolfaghari, Mahdi; Ahmadihangar, Roya; Gharehpetian, Gevork B.; Häring, Tobias; Rosin, Argo Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 451-455 <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161545>

Flexibility investigation of price-responsive batteries in the microgrids cluster

Ahmadihangar, Roya; Azizi, Elnaz; Subham, Sahoo; Häring, Tobias; Rosin, Argo; Vinnikov, Dmitri; Dragicevic, Tomislav; Blaabjerg, Frede Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 456-461 : ill <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161667>

Flexible identification procedure for thermodynamic constitutive models for magnetostrictive materials

Rasilo, Paavo; Singh, Deepak; Jeronen, Juha; Aydin, Ugur; Martin, Florian; Belahcen, Anouar; Daniel, Laurent; Kouhia, Reijo Proceedings of the Royal Society. A, Mathematical, physical & engineering sciences 2019 / 21 p <https://doi.org/10.1098/rspa.2018.0280>

Flood prevention through condition monitoring of pumping stations

Gevorkov, Levon; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982305>

Flux-weakening control for IPMSM employing model order reduction

Far, Mehrnaz Farzam; Mustafa, Bilal; Martin, Florian; Rasilo, Paavo; **Belahcen, Anouar** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 1510–1516 : ill <http://doi.org/10.1109/ICELMACH.2018.8506693>

Flywheel model for microgrid simulation

Plaum, Freddy 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 157-158 : ill https://www.ester.ee/record=b5291755*est

Force-based feedback for haptic device of mobile assembly robot

Lukin, Aleksandr; **Demidova, Galina; Rassölkin, Anton; Vaimann, Toomas;** Roozbahani, Hamid 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 5 p. : ill <https://doi.org/10.1109/IWED48848.2020.9069581>

Forecasting available demand-side flexibility

Ahmadihangar, Roya; Rosin, Argo; Palu, Ivo; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 39-49 https://doi.org/10.1007/978-981-15-4627-3_4 [Journal metrics at Scopus](#) [Article at Scopus](#)

Forecasting demand-side flexibility of a household with dynamic consumer behavior analysis

Shahid, Arqum; Ahmadihangar, Roya; Rosin, Argo; Korötko, Tarmo IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863005>

Forecasting of energy consumption and production using recurrent neural networks

Shabbir, Noman; Kütt, Lauri; Jawad, Muhammad; **Iqbal, Muhammad Naveed; Shams Ghahfarokhi, Payam** 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 MHPSO-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](#)

Forecasting PV energy generation using transformer-based architectures: A comparative study of Lag-Llama, TFT, and DeepAR

Amjad, Furqan; Korötko, Tarmo; Rosin, Argo 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830763>

Forecasting short term wind energy generation using machine learning

Shabbir, Noman; Ahmadihangar, Roya; Kütt, Lauri; Iqbal, Muhammad Naveed; Rosin, Argo 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p <https://doi.org/10.1109/RTUCON48111.2019.8982365>

Forward-based DC-DC converter with eliminated leakage inductance problem

Matiushkin, Oleksandr; Husev, Oleksandr; Afshari, Hossein; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos IEEE transactions on industrial electronics 2025 / p. 1638-1648 <https://doi.org/10.1109/TIE.2024.3429626>

Fotoelektrilised toitevõimsuse genereerimissüsteemid : toitemuundurseedmete elektromagnetilise ühilduvuse nõuded ja katsetusmeetodid = Photovoltaic power generating systems EMC requirements and test methods for power conversion equipment (IEC 62920:2017+IEC 62920:2017/A1:2021)

2023 https://www.ester.ee/record=b5561301*est

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](#)

From misconceptions to energy saving concepts : case study in pumping engineering

Vodovozov, Valery 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 44-50 : ill http://www.ester.ee/record=b4650094*est

Fuel cell city buses : grey shadows of green energy

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p <https://doi.org/10.1109/BEC56180.2022.9935604>

Fuel economy regression analyses for hybrid electric vehicle

Vu, Trieu Minh; Moezzi, Reza; Owe, Israel European journal of electrical engineering 2018 / p. 363–377

A full bridge series-series resonant IPT system optimized for charging electric vehicle batteries across an extensive range

Kishan, Dharavath; Vinod, Marupuru; **Chub, Andrii** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604397>

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

Fully automated tuning of microwave coaxial cavity filters = Mikrolaine-koaksiaalfiltrite täisautomaatne häälestamine

Sekhri, Even 2024 https://www.ester.ee/record=b5685094*est <https://digikogu.taltech.ee/et/Item/38784e65-568e-4dd9-aef9-bb5eec5a2a9c>
<https://doi.org/10.23658/taltech.20/2024>

A fully decentralized distribution market mechanism using ADMM

Yang, Jiajia; Dong, ZhaoYang; **Wen, Fushuan** 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 5 p. : ill
<https://doi.org/10.1109/PESGM40551.2019.8973905>

Fundamentals of electrical machines

Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton; Janson, Kuno 2026 https://www.routledge.com/Fundamentals-of-Electrical-Machines/Kallaste-Vaimann-Rassolkin-Janson/p/book/9781032518206?srsltid=AfmBOoopOWsvE7PCg4afDRJAsSt-7MPjB1tipsK8Yhta6i_tqjPvPr

Fuzzy control of energy recovery in electric vehicles with hybrid energy storage

Vodovozov, Valery; Aksjonov, Andrei; Ricciardi, Vincenzo; Raud, Zoja 2019 International Conference on Clean Electrical Power (ICCEP) 2019 / p. 345-350 : ill <https://doi.org/10.1109/ICCEP.2019.8890103>

Fuzzy gradient control of electric vehicles at blended braking with volatile driving conditions

Vodovozov, Valery; Petlenkov, Eduard; Aksjonov, Andrei; Raud, Zoja ICINCO 2020 : 17th International Conference on Informatics in Control, Automation and Robotics, July 7-9, 2020 : online 2020 / p. 250-261 <http://wikicfp.com/cfp/servlet/event.showcfp?eventid=97093©ownerid=45217>

Fuzzy logic control application in DC-link voltage control of the energy router

Najafzadeh, Mahdiyyeh 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 59-60 : ill
https://www.ester.ee/record=b5457278*est

Fuzzy logic control for a ball and beam system

Moezzi, Reza; Vu, Trieu Minh; Tamre, Mart International Journal of Innovative Technology and Interdisciplinary Sciences : IJTIS 2018 / p. 39-48 : ill <https://doi.org/10.1515/IJTIS.2018.1.1.39-48>

Fuzzy logic control of electric vehicles in changing braking conditions

Vodovozov, Valery; Raud, Zoja; Aksjonov, Andrei; Petlenkov, Eduard 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / art. 20192756, p. 107-112
<https://doi.org/10.1109/ICEPDS47235.2020.9249083>

Future power system out-of-step protection concept utilizing synchronized phasor measurements = Tuleviku elektrisüsteemi faasimõõtmistel põhinev sünkronismikaotuskaitse kontseptsioon

Tealane, Marko 2023 <https://doi.org/10.23658/taltech.9/2023> <https://digikogu.taltech.ee/et/Item/159731eb-e93e-4892-875f-3806cd16e64c>
https://www.ester.ee/record=b5542953*est

Future trends in design of electrical machines

Kallaste, Ants 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 51-52 https://www.ester.ee/record=b5291755*est

Gen Z oriented engineering education in the "Industry 4.0" age

Raud, Zoja; Vodovozov, Valery; Petlenkov, Eduard 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / p. 1-4
<https://doi.org/10.1109/RTUCON60080.2023.10413087>

Generation of unmeasured loading levels data for condition monitoring of induction machine using machine learning

Billah, Md Masum; Saberi, Alireza Nemat; Hemeida, Ahmed; Martin, Florian; **Kudelina, Karolina; Asad, Bilal; Naseer, Muhammad Usman**; Mukherjee, Victor; Belahcen, Anouar IEEE transactions on magnetics 2024 / art. 8201104
<https://doi.org/10.1109/TMAG.2023.3312267> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Generative adversarial network and CNN-LSTM based short-term power load forecasting

Liu, Y.; Liang, Z.; Li, X.; **Bakeer, Abualkasim Ahmed Ali** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / p. 1-6 <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227473>

Generative design in development of mechanical components for Magnus effect-based wind turbine

Lukin, Aleksandr; Perepelkina, Svetlana; Demidova, Galina; Lukichev, Dmitry; **Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 6-10 : ill <https://doi.org/10.1109/ICEPDS47235.2020.9249344>

Generative design in weight optimization of reconfigurable continuous track robot

Valme, Daniil; Kudelina, Karolina; Belolipetskaja, Diana; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 6 p <https://doi.org/10.1109/IWED52055.2021.9376329>

Global MPPT for interleaved buck-boost DC-DC converter

Matiushkin, Olexsandr; Husev, Olexsandr; Fesenko, Artem; **Vinnikov, Dmitri** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 7 p. : ill <https://doi.org/10.1109/RTUCON51174.2020.9316589>

A Gramian-based tool for modeling converter-dominated power systems

de Morais Dias Campos, Nathalia; Sarnet, Tanel; Kilter, Jako IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863396>

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 buck-boost inverter based on unfolding circuit

Matiushkin, Olexsandr; Husev, Olexsandr; Vinnikov, Dmitri; Gordienko, Vyacheslav 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659824>

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

Roncero-Clemente, Carlos; **Husev, Olexsandr;** 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-connected three-phase 3L-T-type qZS inverter for renewable energy

Roncero-Clemente, Carlos; **Husev, Olexsandr;** Barrero-Gonzalez, Fermin; Gonzalez-Romera, Eva; Milanés-Montero, Maria Isabel; Romero-Cadaval, Enrique 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 114-119 <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161512>

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

Najafzadeh, Mahdiyyeh; Strzelecka, Natalia; **Husev, Olexsandr; Roasto, Indrek;** Nassereddine, 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](#)

Grid-frequency Vienna rectifier and isolated current-source DC-DC converters for efficient off-board charging of electric vehicles

Rabkowski, Jacek; **Blinov, Andrei; Zinchenko, Denys;** Wrona, Grzegorz; Zdanowski, Mariusz 2020 22nd European Conference on Power Electronics and Applications (EPE'20 ECCE Europe), Lyon, France, 7-11 Sept. 2020 2020 / 10 p. : ill <https://doi.org/10.23919/EPE20ECCEurope43536.2020.9215772>

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

Azizi, Mohammadreza; **Husev, Olexsandr;** Veligorskyi, Olexsandr; **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](#)

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

Shams Ghahfarokhi, Payam; 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](#)

Hairpin windings manufacturing, design, and AC losses analysis approaches for electric vehicle motors

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; **Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas** 2021 11th International Electric Drives Production Conference (EDPC) : 7-9 Dec. 2021 2021 / p. 1-7 <https://doi.org/10.1109/EDPC53547.2021.9684208>

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](#)

Hannes Agabus ja Hardi Koduvere: loomulikku rada kulgev Põxit [Võrguväljaanne]

Agabus, Hannes; Koduvere, Hardi postimees.ee 2019 / fot [Hannes Agabus ja Hardi Koduvere: loomulikku rada kulgev Põxit](#)

Haptic glove for augmented and virtual reality

Vu, Trieu Minh 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 19-20 : ill https://www.ester.ee/record=b5183874*est

Haptic smart glove for augmented and virtual reality

Vu, Trieu Minh; Moezzi, Reza; Katushin, Nikita Sensor letters 2019 / p. 358-364 <https://doi.org/10.1166/sl.2019.4070>

Hardware-in-the-Loop test of an open loop fuzzy control method for decoupled electro-hydraulic antilock braking system

Aksjonov, Andrei; Ricciardi, Vincenzo; Augsburg, Klaus; **Vodovozov, Valery; Petlenkov, Eduard** IEEE transactions on fuzzy systems 2020 / p. 965-975: ill <https://doi.org/10.1109/TFUZZ.2020.2965868> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Haridusasutused : haridusasutuste juhtimissüsteemid. Nõuded koos kasutusjuhiste = Educational organizations : management systems for educational organizations. Requirements with guidance for use (ISO 21001:2018, identical+ISO 21001:2018/Amd 1:2024, identical)

2024 https://www.ester.ee/record=b5709394*est

Harku Estlink 1 ja Kiisa AREJ-de koostöö uuring

Kilter, Jako; Sarnet, Tanel 2023

Harmonic current summation using probabilistic bivariate modelling = Vooluharmonoonikute summeerimine rakendades kahe muutujaga tõenäosuslikku modelleerimist

Jarkovoi, Marek 2019 <https://digikogu.taltech.ee/et/Item/35d500c0-f295-4dd5-b8a5-8feb6a184d32>

Harmonic currents and voltages in industrial LV networks - case studies

Vinnal, Toomas; Kütt, Lauri; Jarkovoi, Marek 2018 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2018) : Amalfi, Italy, 20-22 June 2018 2018 / p. 177-182 : ill <https://doi.org/10.1109/SPEEDAM.2018.8445234>

Harmonic currents and voltages in LV networks of Estonia : measurement results, case studies

Vinnal, Toomas; Jarkovoi, Marek; Kütt, Lauri 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 7 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659875>

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 spectrum analysis of induction motor with broken rotor bar fault

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Belahcen, Anouar 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 7 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659842>

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](#)

Harmonics distortion in inverter-fed motor-drive systems : case study

Heidari, Hamidreza; Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818230>

Harnessing appliance flexibility : a user-centric approach for energy management

Shahid, Arqum 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 95-96 : ill https://www.ester.ee/record=b5570906*est

Health and charge indicators for battery energy storage systems in electric vehicles applications

Zequera, Rolando Antonio Gilbert; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 427-432
<https://doi.org/10.1109/PEMC51159.2022.9962858>

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](#)

A health-energy nexus perspective for virtual power plants : power systems resiliency and pandemic uncertainty challenges

Mishra, Sambeet; Bordin, Chiara Smart and Sustainable Technology for Resilient Cities and Communities 2022 / p. 267–284

https://doi.org/10.1007/978-981-16-9101-0_19

Heat pump induction motor faults caused by soft starter topology — case study

Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Huynh, Van Khang 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 454-459 : ill <https://doi.org/10.1109/PEMC48073.2021.9432506>

Heigo Mäemuru - insener juba enne inseneriks õppimist

Mäemuru, Heigo Mente et Manu 2018 / lk. 10-15 : fot https://ttu.ee/public/m/mente-et-manu/MM_02_2018/mobile/index.html#p=6

http://www.ester.ee/record=b1242496*est <http://dea.digar.ee/publication/AKmenteetmanu> https://artiklid.elnet.ee/record=b2862652*est

Heiki Tammoja : 24.01.1947 - 13.10.2021 : in memoriam

Palu, Ivo Elektriala 2021 / lk. 30 : portr https://www.ester.ee/record=b1240496*est

Hemodialysis optical monitoring toward greener technology : a potential for water saving dialysis treatment

Leis, Liisi; Adoberg, Annika; Paats, Joosep; Holmar, Jana; Arund, Jürgen; Karai, Deniss; Luman, Merike; Pilt, Kristjan; Taklaja, Paul; Tanner, Risto; Fridolin, Ivo 19th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics : Proceedings of NBC 2023, June 12–14, 2023, Liepaja, Latvia 2023 / p. 162 - 171 https://doi.org/10.1007/978-3-031-37132-5_21

[Conference Proceedings at Scopus](#) [Article at Scopus](#)

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](#)

A high step-up non-isolated dc-dc converter with low voltage stress across transistor

Pourjafar, Saeed; Hemmati Shahsavari, Tala; Hashemzadeh, Seyed Majid; **Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri** IEEE transactions on industrial electronics 2024 / p. 15755-15767 <https://doi.org/10.1109/TIE.2024.3383025> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High voltage circuit breaker charging motor's condition monitoring - importance, possibilities, and challenges

Asad, Bilal; Sardar, Muhammad Usman; Vaimann, Toomas; Kallaste, Ants; Asefi, Sajjad; Kilter, Jako 2024 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2024 / 7 p <https://doi.org/10.1109/Diagnostika61830.2024.10693906>

High voltage circuit breaker health index Evaluation considering measurement accuracy

Asefi, Sajjad; Kilter, Jako; Shayesteh, Ebrahim; Hilber, Patrik; Lindquist, Tommie IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863019>

High-efficiency partial power converter for integration of second-life battery energy storage systems in DC microgrids

Hassanpour, Naser; Chub, Andrii; Yadav, Neelesh; Blinov, Andrei; Vinnikov, Dmitri IEEE Open Journal of the Industrial Electronics Society 2024 / p. 87850-87863 <https://doi.org/10.1109/OJIES.2024.3389466> [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 quad-mode parallel PV power optimizer for DC microgrids

Sidorov, Vadim 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 59-60 : ill https://www.ester.ee/record=b5504019*est

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-frequency split-bobbin transformer design with adjustable leakage inductance

Rahman, Showrov; Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 15-17 Nov. 2021 : conference proceedings 2021 / p. 1-5 : ill <https://doi.org/10.1109/RTUCON53541.2021.9711708>

High-Frequency Step-Up DC-DC Converter with Integrated Ferrite-less Inductances

Matiushkin, Oleksandr; Husev, Oleksandr; Gutiérrez-Escalona, Javier; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique PCIM Europe 2025 2025 / 7 p

High-Gain Seven-Level Switched-Capacitor Two-Stage Multi-Level Inverter

Ahmed, Hassan Yousif; **Abdelrahim Abdelghafour, Omar Mohamed;** Ali, Ziad M. Frontiers in Energy Research 2022 / art. 869662 <https://doi.org/10.3389/fenrg.2022.869662>

High-performance buck-boost partial power quasi-Z-source series resonance converter

Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Mashinchi Maheri, Hamed; Blinov, Andrei; Vinnikov, Dmitri IEEE Access 2022 / p. 13017-130189 <https://doi.org/10.1109/ACCESS.2022.3225751> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A High-performance open-source finite element analysis library for magnetics in MATLAB

Lehikoinen, Antti; Davidsson, T.; Arkkio, Antero; **Belahcen, Anouar** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 486-492 : ill <http://doi.org/10.1109/ICELMACH.2018.8507235>

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-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](#)

Hilbert transform, an effective replacement of Park's vector modulus for the detection of rotor faults

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818227>

Hispaania stsenaarium: miks elektrisüsteemid ootamatult kustuvad

Landsberg, Mart postimees.ee 2025 <https://tehnika.postimees.ee/8239729/eksperdi-ulevaade-hispaania-stsenaarium-miks-elektrisusteemid-ootamatult-kustuvad>

Hoia raha kokku : kuidas kodus säästlikult energiat tarbida

Kongas, Kerttu Postimehe lisa 2024 [Hoia raha kokku: kuidas kodus säästlikult energiat tarbida](#)

Hoidkem usku Eesti meesse

Kilk, Aleksander Mesinik : mesindusajakiri 2024 / lk. 4-5 : fot https://www.ester.ee/record=b1072594*est

A holistic D-PMU optimal placement framework considering pragmatic constraints in smart grids

Farhizadan, Mohammadreza; Karrari, Mehdi; Gharehpetian, Gevork B.; **Ahmadihangar, Roya; Kilter, Jako; Rosin, Argo** IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 p. <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880881>

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](#)

Home energy management systems: A review of the concept, architecture, and scheduling strategies

Han, Binghui; **Zahraoui, Younes;** Mubin, Marizan; Mekhilef, Saad; Seyedmahmoudian, Mehdi; Stojcevski, Alex IEEE Access 2023 / p. 19999-20025 <https://doi.org/10.1109/ACCESS.2023.3248502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Homogenization of multiscale eddy current problem by localized orthogonal decomposition method

Ren, Xiaotao; Hannukainen, Antti; **Belahcen, Anouar** IEEE transactions on magnetics 2019 / art. 7500204, 4 p <https://doi.org/10.1109/TMAG.2019.2917400>

Hundi peal sõitis uus iselaev

Vitismann, Madli Meremees : Eesti merendusajakiri = Estonian maritime magazine 2023 / lk. 20 : fot
<https://issuu.com/ajakirimeremees/docs/meremees322> https://www.ester.ee/record=b4646644*est

Hybrid DC–DC converters with topology morphing control and post-fault operation capability

Vinnikov, Dmitri; Chub, Andrii; Korkh, Oleksandr; Blinov, Andrei; Liivik, Elizaveta Electrimacs 2019 : Selected Papers, Vol. 1 2020 / p. 433-445 https://doi.org/10.1007/978-3-030-37161-6_33 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Hybrid energy storage lifetime-oriented control strategy in islanded microgrids : a real time simulation case study

Häring, Tobias; Link, Luca; Rosin, Argo; Biechl, Helmuth 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 <https://doi.org/10.1109/ENERGYCON53164.2022.9830437>

Hybrid FEA-Simulink modelling of permanent magnet assisted synchronous reluctance motor with unbalanced magnet flux

Pando-Acedo, Jaime; Rassõlkin, Anton; Lehtikainen, Antti; Vaimann, Toomas; Kallaste, Ants; Romero-Cadaval, Enrique; Belahcen, Anouar 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. : 174-180 : ill <https://doi.org/10.1109/DEMPED.2019.8864925>

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](#)

A hybrid modulation approach for step-up/ down partial power converter with improved MPPT efficiency around zero partiality

Yadav, Neelesh; Chub, Andrii; Hassanpour, Naser; Blinov, Andrei; Vinnikov, Dmitri; Galkin, Ilya IEEE transactions on industry applications 2025 <https://doi.org/10.1109/TIA.2025.3525607>

Hybrid PWM for step-up series resonant DC-DC converter integrated with bridgeless rectifier

Bakeer, Abualkasim Ahmed Ali 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 61-62 : ill https://www.ester.ee/record=b5457278*est

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](#)

Hybrid thermal model of a synchronous reluctance machine

Shams Ghahfarokhi, Payam; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton Case studies in thermal engineering 2018 / p. 381-389 : ill <https://doi.org/10.1016/j.csite.2018.05.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hyperspectral image band selection using pooling

Liyanage, Dhanushka Chamara; Hudjakov, Robert; Tamre, Mart 15th International Conference Mechatronic Systems and Materials : MSM'2020 : The book of selected, peer reviewed papers presented at the 15th International Conference Mechatronic Systems and Materials MSM'2020, July 1-3, 2020, Bialystok, Poland 2020 <https://doi.org/10.1109/MSM49833.2020.9201714>

Hyperspectral imaging for vehicle traction effort prediction: ISEAUTO case study

Valme, Daniil; Rassõlkin, Anton; Liyanage, Dhanushka Chamara 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227463>

Hyperspectral imaging methods improve RGB image semantic segmentation of unstructured terrains

Liyanage, Dhanushka Chamara; Hudjakov, Robert; Tamre, Mart 15th International Conference Mechatronic Systems and Materials : MSM'2020 : The book of selected, peer reviewed papers presented at the 15th International Conference Mechatronic Systems and Materials MSM'2020, July 1-3, 2020, Bialystok, Poland 2020 / 5 p. ill <https://doi.org/10.1109/MSM49833.2020.9201738>

Hyperspectral/multispectral imaging methods for quality control

Liyanage, Dhanushka Chamara; Tamre, Mart; Hudjakov, Robert Handbook of research on new investigations in artificial life, AI, and machine learning 2022 / p. 438-461 <https://doi.org/10.4018/978-1-7998-8686-0.ch017>

Hysteresis loss evaluation of additively manufactured soft magnetic core

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Rassõlkin, Anton; Vaimann, Toomas 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1657-1661 <https://doi.org/10.1109/ICEM49940.2020.9270836>

Hysteresis measurements and numerical losses segregation of additively manufactured silicon steel for 3D printing electrical machines

Tiismus, Hans; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton; Lukichev, Dmitry Applied sciences 2020 / art. 6515, 15 p <https://doi.org/10.3390/app10186515> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Identification and characterization of modulation scheme in an EV-PMSM control strategy for digital twin modeling

Mohamed, Mahmoud Ibrahim Hassanin; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants Diagnostika 2024 - 2024

International Conference on Diagnostics in Electrical Engineering, Proceedings 2024 / 5 p

<https://doi.org/10.1109/Diagnostika61830.2024.10693927>

Identification and location of PD defects in medium voltage underground power cables using high frequency current transformer

Shafiq, Muhammad; **Kiitam, Ivar; Taklaja, Paul; Kütt, Lauri;** Kauhaniemi, Kimmo; **Palu, Ivo** IEEE Access 2019 / art. 8771171, p.

103608 - 103618 : ill <https://doi.org/10.1109/ACCESS.2019.2930704> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at](#)

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

Identification of Estonian weak low voltage grid topologies [Electronic resource]

Vill, Kaija; Rosin, Argo 2017 IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (IEEEIC / I&CPS Europe) : 6-9 June, 2017, Milan, Italy : conference proceedings 2017 / [5] p. : ill. [DVD] <https://doi.org/10.1109/IEEEIC.2017.7977757>

Identification of intra-day variations of static load characteristics based on measurements in high-voltage transmission network

Leinakse, Madis; Kiristaja, Hendrik; Kilter, Jako 2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Sarajevo, Bosnia and Herzegovina, October 21-25, 2018 : proceedings 2018 / 6 p

<https://doi.org/10.1109/ISGTEurope.2018.8571712>

Identification of mechanisms behind converter-related issues in power systems based on an overview of real-life events

De Rua, Philippe; Roose, Thomas; Sakinci, Özgür Can; **de Morais Dias Campos, Nathalia;** Beerten, Jef Renewable and

sustainable energy reviews 2023 / art. 113431 <https://doi.org/10.1016/j.rser.2023.113431> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

IEEE Industrial Electronics Society students and young professionals just after the pandemic time [students and young professionals news]

Jasinski, Marek; Turzynsk, Marek; **Vinnikov, Dmitri; Chub, Andrii** IEEE industrial electronics magazine 2022 / p. 89-100

<https://doi.org/10.1109/MIE.2022.3212247>

Iga mesilane loeb

Kilk, Aleksander Mesinik : mesindusajakiri 2024 / lk. 4-5 : ill https://www.ester.ee/record=b1072594*est

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 cable impedance on the harmonic emission of LED lamps

Iqbal, Muhammad Naveed; Kütt, Lauri; Asad, Bilal; Shabbir, Noman 2020 21st International Scientific Conference on Electric

Power Engineering (EPE), October 19-21, 2020, Prague, Czech Republic 2020 / 5 p <https://doi.org/10.1109/EPE51172.2020.9269271>

The impact of control environments on global parameters of electrical machines in case of broken rotor bars

Kudelina, Karolina; Raja, Hadi Ashraf; Autsou, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants

Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p.

<https://doi.org/10.1109/Diagnostika55131.2022.9905149>

Impact of distributed generation on estimation of exponential load models

Leinakse, Madis; Tani, Pärtel; Kilter, Jako 2019 IEEE Power & Energy Society General Meeting (PESGM) 2019 / 5 p. : ill

<https://doi.org/10.1109/PESGM40551.2019.8974014>

Impact of faults and different operating conditions on current parameters in case of broken rotor bars

Kudelina, Karolina 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school

of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 41-42 : ill https://www.ester.ee/record=b5504019*est

Impact of LED thermal stability to household lighting harmonic load current modeling

Iqbal, Muhammad Naveed; Jarkovoi, Marek; Kütt, Lauri; Shabbir, Noman 2019 Electric Power Quality and Supply Reliability

Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 :

proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/PQ.2019.8818226>

Impact of load matching algorithms on the battery capacity with different household occupancies

Häring, 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](#)

The impact of load on global parameters of electrical machines in case of healthy and broken rotor bars
Kudelina, Karolina; Raja, Hadi Ashraf; Autsou, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Shabbir, Noman 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 l. <https://doi.org/10.1109/BEC56180.2022.9935614>

Impact of transformer turns ratio on the power losses and efficiency of the wide range isolated buck–boost converter for photovoltaic applications
Mashinchi 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](#)

Impacts of grid-scale battery systems on power system operation, case of Baltic region
Ahmadihangar, Roya; Plaum, Freddy; Häring, Tobias; Drovitar, Imre; Korõtko, Tarmo; Rosin, Argo IET Smart Grid 2024 / p. 101-119 <https://doi.org/10.1049/stg2.12142> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impacts of offshore grid developments in the North Sea region on market values by 2050: How will offshore wind farms and transmission lines pay?
Koduvere, Hardi; Traber, Thure; Koivisto, Matti J. 2017 14th International Conference on the European Energy Market (EEM), 6-9 June, 2017 2017 / p. 1-6 : ill <https://doi.org/10.1109/EEM.2017.7981945>

Impacts of various maintenance tasks on life-cycle costs of a power grid project
Zhang, Shuyan; Duan, Shuyin; **Wen, Fushuan;** Shahnia, Farhad; Chen, Qingfang; **Palu, Ivo** 2020 International Conference on Smart Grids and Energy Systems (SGES): 23-26 Nov. 2020 2020 / p. 888-892 <https://doi.org/10.1109/SGES51519.2020.00163>

Impedance network impact on the controller design of the QZSI for PV applications
Liu, Wenjie; Yang, Yongheng; Kerekes, Tamas; **Liivik, Elizaveta;** Blaabjerg, Frede 2020 IEEE 21st Workshop on Control and Modeling for Power Electronics (COMPEL), Aalborg, Denmark, November 9-12, 2020 2020 / 6 p <https://doi.org/10.1109/COMPEL49091.2020.9265708>

Impedance network-based diode-clamped multilevel inverter voltage balancing with cascaded voltage multiplier
Ebrahimi, Ali; Babaei, Ebrahim; Mousavi, S. M. J.; Mashinchi Maheri, Hamed; **Jalakas, Tanel** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10413166>

Impedance-source DC solid-state circuit breakers : an overview
Rahimpour, Saeed; Husev, Oleksandr; Vinnikov, Dmitri 2022 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) 2022 / p. 186-191 <https://doi.org/10.1109/SPEEDAM53979.2022.9842138>

Impedance-source networks : features, benefits and challenges for industrial application : keynote address
Husev, Oleksandr 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / p. 1 <https://doi.org/10.1109/IWED54598.2022.9722589>

Implementation and analysis of rolling bearing faults caused by shaft currents
Kudelina, Karolina; Autsou, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2022 <https://doi.org/10.1109/IWED54598.2022.9722596>

Implementation issues of droop controlled DC nanogrids: State of charge management of battery energy storage and impact of sensor gain tolerance
Hasan, Sayeed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830832>

Implementation of a web-based remote control system for qZS DAB application using low-cost ARM platform
Korzeniewski, Marek; Kulikowski, Krzysztof; **Zakis, Janis;** Jasiński, Marek Tomasz; Malinowski, Aleksander Bulletin of the Polish Academy of Sciences: Technical Sciences 2016 / p. 887-896 <https://doi.org/10.1515/bpasts-2016-0097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Implementation of burst control based on sigma-delta modulation in low-cost microcontroller
Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri IEEE Workshop on Computers in Power Electronics 2022 / 6 l <https://doi.org/10.1109/COMPEL53829.2022.9830023>

Implementation of Digital Twins for electrical energy conversion systems in selected case studies
Rassõlkin, Anton; Orosz, Tamas; Demidova, Galina; Kuts, Vladimir; Rjabtšikov, Viktor; Vaimann, Toomas; Kallaste, Ants Proceedings of the Estonian Academy of Sciences 2021 / p. 19-39 : ill <https://doi.org/10.3176/proc.2021.1.03> https://doi.org/wp-content/plugins/kirj/pub/proc-1-2021-19-39_20210201183802.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics 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 integrated wireless network and MATLAB system to control autonomous mobile robot

Tamre, Mart; Hudjakov, Robert; Shvarts, Dmitry; Pölder, Ahti; Hiiemaa, Mairo; Juurma, Märt International Journal of Innovative Technology and Interdisciplinary Sciences : IJTIS 2018 / p. 18-25 : ill <https://doi.org/10.1515/IJTIS.2018.1.1.18-25>

Implementation of MPPT hill climbing technique for forward based DC-DC converter

Matiushkin, Oleksandr; Husev, Oleksandr; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604422>

Implementation of novel vector control with low torque ripples for synchronous reluctance motor

Heidari, Hamidreza 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 33-34 https://www.ester.ee/record=b5457278*est

Implementation of protection features for a modular bidirectional solid-state battery disconnecter

Dsa, Daniel; Chinnusamy, Abhinav; Banavath, Satish Naik; Carvalho da Silva, Edivan Laercio IEEE journal of emerging and selected topics in power electronics 2024 <https://doi.org/10.1109/JESTPE.2024.3502157>

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](#)

Implementing chatbot to assist costumer service of consumer protection and technical regulatory authority

Kütt, Lauri AI IN BUSINESS : proceedings of the scientific workshop on business implications of artificial intelligence, June 7, 2022 2022 / p. 65-66 : ill https://www.ester.ee/record=b5506022*est <https://digikogu.taltech.ee/et/Item/2096bada-661d-4928-99a7-bfbce51825d8>

Implications of the possible exit from oil shale for Estonian electricity sector

Härm, Mihkel; Hamburg, Arvi Oil shale 2020 / p. 177-187 : ill <https://doi.org/10.3176/oil.2020.3.01> https://kirj.ee/wp-content/plugins/kirj/pub/OS-3-2020-177-187_uus_20200827110456.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improved cost function definition for fixed switching frequency FCS-MPC with SVPWM

Bakeer, Abualkasim Ahmed Ali; Alhasheem, Mohammed; **Chub, Andrii** 2021 22nd International Middle East Power Systems Conference (MEPCON) 2021 / p. 360-365 <https://doi.org/10.1109/MEPCON50283.2021.9686235>

Improved DC-Link voltage transient response and stability issues in energy router with fuzzy logic control method

Najafzadeh, Mahdiyyeh; Husev, Oleksandr; Roasto, Indrek; Jalakas, Tanel 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/RTUCON51174.2020.9316477>

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 half-bridge Z-source inverter based gamma structure with continuous input current

Bahador, Asghar; Babaei, Ebrahim; Chauhan, Sachin 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830839>

Improved maximum power point tracking algorithm for step-up/down partial power converters operating around zero partiality

Yadav, Neelesh; Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri IEEE journal of emerging and selected topics in power electronics 2024 / p. 1984-1994 <https://doi.org/10.1109/JESTPE.2024.3354843> [Journal metrics at Scopus](#) [Article at](#)

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 nine-level switched capacitor-based inverter with voltage boosting capability and limitation of capacitor current spikes for PV applications

Vosoughi Kurdkandi, Naser; Marangalu, Milad Ghavipanjeh; Naderi, Yahya; **Husev, Oleksandr;** Hosseini, Seyed Hossein; Siwakoti, Yam P.; Mehri-Sani, Ali IET renewable power generation 2023 / p. 725-749 <https://doi.org/10.1049/rpg2.12630> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improved quantification of partial discharges for reliable diagnostics of multipath connections in MV substations

Shafiq, Muhammad; Kiitam, Ivar; Isa, Muzamir; **Taklaja, Paul; Palu, Ivo; Kütt, Lauri** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / 6 p <https://doi.org/10.1109/RTUCON53541.2021.9711585>

Improved sampling algorithm for stochastic modelling of random-wound electrical machines

Lehikoinen, Antti; Chiodetto, Nicola; Arkio, Antero; **Belahcen, Anouar** The journal of engineering 2019 / p. 3976–3980 <https://doi.org/10.1049/joe.2018.8093>

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](#)

Improving dynamic stability of deregulated power system

Rouhani, Seyed Hossein; **Ahmadihangar, Roya; Häring, Tobias; Rosin, Argo** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p <https://doi.org/10.1109/RTUCON51174.2020.9316618>

Improving legibility of motor current spectrum for broken rotor bars fault diagnostics

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Rassõlkin, Anton; Belahcen, Anouar; Iqbal, Muhammad Naveed Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 1–8 : ill <https://doi.org/10.2478/ecce-2019-0001>

Improving Residential Load Forecasting : A Probabilistic Tree-based Approach for Multi-Step Ahead Prediction

Shabbir, Noman; Daniel, Kamran; Jawad, M.; **Rosin, Argo; Martins, J.** International Scientific Conference on Information, Communication and Energy Systems and Technologies (ICEST) 2025

In memoriam Peeter Raesaar (01.06.1940-24.12.2023)

Elektrala 2024 / lk. 36 https://www.ester.ee/record=b1240496*est

Inaccuracies and uncertainties for harmonic estimation in distribution networks

Iqbal, Muhammad Naveed; **Kütt, Lauri; Daniel, Kamran; Shabbir, Noman;** Amjad, Anas; Awan, Abdul Waheed; Ali, Majid Sustainability 2024 / art. 6523 <https://doi.org/10.3390/su16156523> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Incorporating service type in aging failure model of high voltage circuit breaker

Asefi, Sajjad; Kilter, Jako; Landsberg, Mart 2023 27th International Conference Electronics : proceedings 2023 / 5 p <https://doi.org/10.1109/IEEECONF58372.2023.10177602>

Increasing PV hosting capacity in LV distribution networks using congestion control techniques

Shabbir, Noman 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 87-88 https://www.ester.ee/record=b5504019*est

Indicators for assessing the quality of an energy policy = Energiapoliitika kvaliteedi hindamise indikaatorid

Kisel, Einari 2017 <https://digi.lib.ttu.ee/i/77181> https://www.ester.ee/record=b4649798*est

Indirect model predictive control for inverter connected to distorted grid with significant computation delay

Husev, Oleksandr; Pimentel, Sergio Pires; **Vinnikov, Dmitri; Kütt, Lauri;** Rodriguez, Jose IECON 2019 - 45th Annual Conference

An indirect model predictive current control (CCS-MPC) for grid-connected single-phase three-level NPC quasi-z-source PV inverter

Pires Pimentel, Sergio; Husev, Oleksandr; Vinnikov, Dmitri; Roncero-Clemente, Carlos; **Stepenko, Serhii** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659840>

Induction generator with direct control and a limited number of measurements on the side of the converter connected to the power grid

Kasprowicz, 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;** **Rassõlkin, 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](#)

Induction motor bearing currents - causes and damages

Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants; Asad, Bilal; Demidova, Galina 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 5 p <https://doi.org/10.1109/IWED52055.2021.9376354>

Inductive bifilar coil based wireless charging system for autonomous electric boat

Pakhaliuk, Bohdan; **Husev, Oleksandr; Shevchenko, Viktor;** Kroics, Kaspars; Stepins, Deniss; Strzelecki, Ryszard IEEE 31st International Symposium on Industrial Electronics (ISIE) 2022 / p. 758-761 <https://doi.org/10.1109/ISIE51582.2022.9831731>

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](#)

Industrial and technological applications of power electronics systems

2021 <https://doi.org/10.3390/books978-3-0365-0823-8>

Influence of different tooth belt transmission faults on the work of a cartesian robot

Autso, Siarhei; Vaimann, Toomas; Rassõlkin, Anton; Kudelina, Karolina; Asad, Bilal Proceedings of the 2022 20th International Conference on Mechatronics - Mechatronika, (ME), Pilsen, Czech Republic, December 7–9, 2022 2022 / 5 p. : ill <https://doi.org/10.1109/ME54704.2022.9982815>

Influence of illumination sources on hyperspectral imaging

Zahavi, Ali; Palshin, Andrei; Liyanage, Dhanushka Chamara; Tamre, Mart Proceedings of the 2019 20th International Conference on Research and Education in Mechatronics (REM) : Wels, Austria, 23-24 May 2019 2019 / 5 p. : ill <https://doi.org/10.1109/REM.2019.8744086>

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 permanent magnet characteristic variability on the wind generator operation

Kudrjavitsev, Oleg; Kallaste, Ants; Kilk, Aleksander; Vaimann, Toomas; Orlova, Svetlana Latvian journal of physics and technical sciences 2017 / p. 3-11 : ill <https://doi.org/10.1515/lpts-2017-0001> [Journal metrics at Scopus](#) [Article at Scopus](#)

The influence of solar energy on the development of the mining industry in the republic of Cuba

Shklyarskiy, Yaroslav E.; Guerra, Dias Daniel; Iakovleva, Emiliia V.; **Rassõlkin, Anton** Journal of Mining Institute 2021 / p. 427 - 440 <https://doi.org/10.31897/PMI.2021.3.12> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of solar power plants on 0.4 kV consumers

Rubanenko, Olena; Hunko, Iryna; Rubanenko, Oleksandr; **Rassõlkin, Anton** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill

<https://doi.org/10.1109/RTUCON48111.2019.8982257>

Influence of weather parameters on the corona losses of 330kV Estonia overhead transmission line

Gupta, Pradeep Kumar 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 93-94 : ill https://www.ester.ee/record=b5504019*est

Info-gap-based optimization of microgrids integrated with power, cooling and hydrogen generation units

Mahmoudnezhad, Fayeze; Mirzaei, Mohammad Amin; Plaum, Freddy; Ahmadihangar, Roya; Kilter, Jako; Rosin, Argo 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 I <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880860>

Inimesele toimivate elektri-, magnet- ja elektromagnetväljade (0 HZ kuni 300 GHz) mõõtmis- ja arvutusviiside põhistandard [Võrguteavik] = Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz)

2019 https://www.ester.ee/record=b5294775*est

Inimese-masina-liidese üld- ja ohutuspõhimõtted, märgistus ja tuvastamine : seadmeklemmide, juhtide otste ja juhtide tuvastamine = Basic and safety principles for man-machine interface, marking and identification : identification of equipment terminals, conductor terminations and conductors (IEC 60445:2021)

2021 https://www.ester.ee/record=b5480843*est

Inimese-masina-liidese üld- ja ohutuspõhimõtted, märgistus ja tuvastamine [Võrguteavik] : seadmeklemmide, juhtide otsastuste ja juhtide tuvastamine = Basic and safety principles for man-machine interface, marking and identification : identification of equipment terminals, conductor terminations and conductors (IEC 60445:2010)

2017 http://www.ester.ee/record=b4759241*est

Initial design estimation of synchronous machines

Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2022 <https://doi.org/10.1109/IWED54598.2022.9722585>

Input source identification algorithm For isolated buck-boost DC-DC converter

Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri IEEE Workshop on Computers in Power Electronics 2022 / 6 p <https://doi.org/10.1109/COMPEL53829.2022.9829973>

Input voltage range extension methods in the series-resonant DC-DC converters

Chub, Andrii; Vinnikov, Dmitri; Lai, Jih-Sheng 2019 IEEE 15th Brazilian Power Electronics Conference and 5th IEEE Southern Power Electronics Conference (COBEP/SPEC 2019) Santos, Brazil, 1-4 December 2019 2019 / p. 1493-1499 <http://toc.proceedings.com/52923webtoc.pdf>

Inrush current measurement and modeling practical cases and primary methods

Tinno, Jan Markus; Kütt, Lauri; Parker, Martin; Kulikov, Jan; Jaanus, Martin 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p <https://doi.org/10.1109/RTUCON62997.2024.10830806>

Insener kui loovisik

Kübarsepp, Jakob; Hamburg, Arvi; Peipman, Tõnu Sirp 2017 / lk. 17-19 <http://www.sirp.ee/s1-artiklid/c21-teadus/insener-kui-loovisik/>

Insenerid panid EIL-i üldkogul paika 2017. aasta eesmärgid : [ka Arvi Hamburgi kommentaarid]

Kamps, Mari Inseneria 2017 / lk. 66-68 : fot http://www.ester.ee/record=b2336521*est https://artiklid.elnet.ee/record=b2818087*est

Inseneritüdeng Brenda Pent: mingil määral tuleb naisena inseneerias alati võidelda

Pent, Brenda delfi.ee 2024 [Inseneritüdeng Brenda Pent: mingil määral tuleb naisena inseneerias alati võidelda](#)

Inseneriõpe TalTechis sai täiendust ABB kingitud seadmetega

toostusest.ee 2025 [Inseneriõpe TalTechis sai täiendust ABB kingitud seadmetega](#)

Insulation aging and framework for the development of aging model based on partial discharge analysis

Choudhary, Maninder 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 79-80 : ill https://www.ester.ee/record=b5504019*est

Insulation durability and measurement of partial discharge = Isolatsiooni vastupidavus ja osalahenduste mõõtmine

Kiitam, Ivar 2021 https://www.ester.ee/record=b5473274*est <https://digikogu.taltech.ee/et/Item/401e6d0b-f51d-488f-b0d6-2e2bdb8f9496> <https://doi.org/10.23658/taltech.62/2021>

Insulation fault diagnosis for MV cables under smart grid operation

Shafiq, Muhammad 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral

school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 13-14 : ill https://www.ester.ee/record=b5457278*est

Integrated labs for electrical engineering courses in competence based learning environment - practical experience
Jaanus, Martin; Umbleja, Kadri; Udal, Andres; Pärnamets, Kaiser 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärđla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818266>

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 autonomous vehicles and Industry 4.0
Sell, Raivo; Rassõlkin, Anton; Wang, Ruxin; Otto, Tauno Proceedings of the Estonian Academy of Sciences 2019 / p. 389–394 : ill <https://doi.org/10.3176/proc.2019.4.07> http://www.kirj.ee/32705/?tpl=1061&c_tpl=1064 [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 condition monitoring methods for electrical machines and drive systems
Kudelina, Karolina 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2021 / p. 35-36 : ill https://www.ester.ee/record=b5457278*est

Intelligent contingency overload-avoiding control of BESS for renewable-rich local area
Gonzalez-Longatt, Francisco; Abdellah, Kouzou; **Astapov, Victor**; Olivo, Franklin; Rueda, Jose Luis; Palensky, Peter; Chamorro, Harold R. 19th International Multi-Conference on Systems, Signals & Devices (SSD) 2022 / p. 1638-1643 <https://doi.org/10.1109/SSD54932.2022.9955825>

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](#)

Intelligent functions development on autonomous electric vehicle platform
Wang, Ruxin; Sell, Raivo; Rassõlkin, Anton; Otto, Tauno; Malayjerdi, Ehsan Journal of machine engineering 2020 / p. 114-125 <https://doi.org/10.36897/jme/117787> [Journal metrics at Scopus](#) [Article at Scopus](#)

Intelligent traction control for electric vehicles using hyperspectral imaging
Valme, Daniil 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 15-16 : ill https://www.ester.ee/record=b5570906*est

Interface converters for residential battery energy storage systems : practices, difficulties and prospects
Galkin, Ilya; **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](#)

Interface development for digital twin of an electric motor based on empirical performance model
Rassõlkin, Anton; Rjabtšikov, Viktor; Kuts, Vladimir; Vaimann, Toomas; Kallaste, Ants; Asad, Bilal; Partyshev, Andriy IEEE Access 2022 / p. 15635-15643 <https://doi.org/10.1109/ACCESS.2022.3148708> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Interleaved quasi-Z-source inverter with active power decoupling for kW-scale PV applications
Stepenko, Serhii 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 71-72 : ill https://www.ester.ee/record=b5183874*est

Interleaved single-phase quasi-Z-source inverter with special modulation technique
Roncero-Clemente, Carlos; **Husev, Oleksandr**; Stepenko, Serhii; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 593-598 : ill <https://doi.org/10.1109/UKRCON.2017.8100310>

International journal of innovative technology and interdisciplinary sciences : IJITIS [Online resource]
2018 https://www.ester.ee/record=b5175856*est <https://journals.indexcopernicus.com/search/details?id=50673>

Intervjuu : Madis Uemaa

Uemaa, Madis Teadus kolme minutiga : 2017-2019 2019 / lk. 148-151 : fot https://www.ester.ee/record=b5245642*est

Introduction to minimize sunk costs in electricity network tariff = Sissejuhatus uppunud kulude minimeerimiseks elektrivõrgu tariifis

Mere, Tarmo 2019 <https://digikogu.taltech.ee/et/Item/49d2b3b6-b570-4958-abda-7e898286eea0>

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](#)

Inverters for power systems with renewable sources: basic topologies and purposes

Yamnenko, Iuliia; Tereshchenko, Tetiana; Fedin, Ihor; **Carvalho da Silva, Edivan Laercio**; Kozhushko, Yuliia; Bondarenko, Oleksandr 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227384>

Investigating different sources of flexibility in power system

Ahmadiyahangar, Roya; Rosin, Argo; Palu, Ivo; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 27-37

https://doi.org/10.1007/978-981-15-4627-3_3 [Journal metrics at Scopus](#) [Article at Scopus](#)

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](#)