

### **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](#)

### **Accessibility and orbits for discrete-time nonlinear control systems**

Bartosiewicz, Zbigniew; **Kotta, Ülle**; Wyrwas, Malgorzata 60th IEEE Conference on Decision and Control, CDC 2021, Austin, 13-17 December 2021 2021 / p. 4594-4601 <https://doi.org/10.1109/CDC45484.2021.9682853> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

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

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

### **Accurate energy-efficient localization hybrid models for distributed IoT sensing**

Jabberi, Maher; **Sellami, Bassem**; Hakiri, Akram; Alimi, Mohamed Adel 2024 IEEE/ACS 21st International Conference on Computer Systems and Applications (AICCSA) : proceedings : Sousse, TN, 22 October-26 October 2024 (2024) 2024  
<https://doi.org/10.1109/AICCSA63423.2024.10912590> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

### **Adaptability, interpretability and rule weights in fuzzy rule-based systems**

**Riid, Andri**; **Rüstern, Ennu** Information sciences 2014 / p. 301-312 : ill <https://doi.org/10.1016/j.ins.2012.12.048> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Adaptive controller for networked control systems subjected to random communication delays**

Srinivasan, Seshadri; Saravanakumar, G.; Subathra, B.; **Kotta, Ülle** Soft computing applications : proceedings of the 7th International Workshop Soft Computing Applications (SOFA 2016). Vol. 1 2018 / p. 78-94 [https://doi.org/10.1007/978-3-319-62521-8\\_8](https://doi.org/10.1007/978-3-319-62521-8_8) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

**Napp, Margus**; Wessberg, Magnus; **Kalamees, Targo**; Broström, Tor International journal of ventilation 2016 / p. 1-14 : ill  
<https://doi.org/10.1080/14733315.2016.1173289> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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

### **Aerial base station assisted cellular communication : performance and trade-off**

**Sharma, Navuday**; Kumar, Atul; **Alam, Muhammad Mahtab**; Jindal, Anish; Imran, Muhammad Ali IEEE Transactions on Network Science and Engineering 2021 / p. 2765-2779 <https://doi.org/10.1109/TNSE.2021.3052984> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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

### **Algebraic necessary and sufficient condition for difference flatness**

**Kaldmäe, Arvo** International Journal of Control 2021 / 8 p <https://doi.org/10.1080/00207179.2021.1908598> [Journal metrics at Scopus](#)

**Algorithm for finding zero factor free rules**

**Lind, Grete; Kuusik, Rein, inform.** Man-Machine Interactions 4 : 4th International Conference on Man-Machine Interactions, ICMMI 2015 Kocierz Pass, Poland, October 6-9, 2015 2016 / p. 421 - 435 [https://doi.org/10.1007/978-3-319-23437-3\\_36](https://doi.org/10.1007/978-3-319-23437-3_36) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

**An alternative approach to distinguish movements of Parkinson disease patients**

**Nõmm, Sven;** Toomela, Aaro; Vaske, Martti; Uvarov, Dan; Taba, Pille IFAC-PapersOnLine 2016 / p. 272-276 : ill <https://doi.org/10.1016/j.ifacol.2016.10.546> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**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 optimization framework for dynamic pipeline management in computing systems**

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

**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 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 STEM teaching - most common strategies and methods enabling deep understanding and interactive learning applied by graduates of technical teacher initial and continuing education programs in Estonia**

**Rüütman, Tiia** Interactive Collaborative Learning : proceedings of the 19th ICL Conference - Volume 1 2017 / p. 405-414 : ill [https://doi.org/10.1007/978-3-319-50337-0\\_39](https://doi.org/10.1007/978-3-319-50337-0_39) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Analysis of the impact of poisoned data within Twitter classification models**

**Price, Christopher; Nõmm, Sven; Priisalu, Jaan** Proceedings of the 5th interdisciplinary cyber research conference 2019 : 29th of June 2019, Tallinn University of Technology [Online resource] 2019 / p. 53-57 <https://doi.org/10.1016/j.ifacol.2019.12.170> [https://www.eester.ee/record=b5238490\\*est](https://www.eester.ee/record=b5238490*est) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Analysis of the vibration magnitude of an induction motor with different numbers of broken bars**

Martinez, Javier; **Belahcen, Anouar;** Muetze, Annette IEEE transactions on industry applications 2017 / p. 2711-2720 : ill <https://doi.org/10.1109/TIA.2017.2657478> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Analyzing Apache Storm as core for an event processing network model**

Schulze, Christin; Gerner, Christian; Tyca, Matthias; Koschel, Arne; Pakosch, Anna; **Astrova, Irina** Intelligent systems and applications : proceedings of the 2021 Intelligent Systems Conference (IntelliSys). Volume 3 2024 / p. 397 - 410 [https://doi.org/10.1007/978-3-031-47715-7\\_27](https://doi.org/10.1007/978-3-031-47715-7_27) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

**Applicability of spiral drawing test for mental fatigue modelling**

**Senkiv, Olesja; Nõmm, Sven;** Toomela, Aaro IFAC-PapersOnLine 2019 / p. 190-195 : ill <https://doi.org/10.1016/j.ifacol.2019.01.064> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Application of component organized learning method for DIGSCM 4.0 hybrid courses**

Ševtšenko, Eduard; Maas, Rene; **Karaulova, Tatjana;** Truver, Anna; Nikolajeva, Anna; Revals, Ritvars; Popell, Janek; Dembovska, Iveta; Samuolaitis, Mindaugas; Raupeliene, Asta Learning in the Age of Digital and Green Transition : proceedings of the 25th

International Conference on Interactive Collaborative Learning (ICL2022), Volume 1 2023 / p. 157-170 [https://doi.org/10.1007/978-3-031-26876-2\\_15](https://doi.org/10.1007/978-3-031-26876-2_15) [https://link.springer.com/chapter/10.1007/978-3-031-26876-2\\_15](https://link.springer.com/chapter/10.1007/978-3-031-26876-2_15) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

**Maheri, Hamed Mashinchi; Vinnikov, Dmitri; Chub, Andrii; Sidorov, Vadim;** Galkin, Ilya 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](#)

**An approach to analyze the performance of advanced manufacturing environment**

**Mahmood, Kashif; Otto, Tauno; Golova, Jelena; Kangru, Tavo; Kuts, Vladimir** Procedia CIRP 2020 / p. 628-633 <https://doi.org/10.1016/j.procir.2020.04.042> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

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

**Assessment of malicious tweets impact on stock market prices**

**Ishikawa, Tatsuki; Ben Sassi, Imen; Ben Yahia, Sadok** Research Challenges in Information Science : 15th International Conference, RCIS 2021, Limassol, Cyprus, May 11-14, 2021 : proceedings 2021 / p. 330-346 [https://doi.org/10.1007/978-3-030-75018-3\\_22](https://doi.org/10.1007/978-3-030-75018-3_22) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Augmented reality based on Apollo lunar imagery : searching for stars and adding virtual objects**

**Pustönski, Vladislav-Veniamin** Presence : virtual and augmented reality 2022 / p. 203-227 [https://doi.org/10.1162/pres\\_a\\_00393](https://doi.org/10.1162/pres_a_00393) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Authentication using shared knowledge : learning agents**

**Kimlaychuk, Vadim** Intelligent autonomous systems 12. Vol. 2, Proceedings of the 12th International Conference IAS-12, held June 26-29, 2012 : Jeju Island, Korea 2013 / p. 523-531 : ill [https://doi.org/10.1007/978-3-642-33932-5\\_48](https://doi.org/10.1007/978-3-642-33932-5_48) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

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

**Automated training set size reduction for detection of small and thin objects**

**Pihlak, Rene; Riid, Andri** 12th International Conference on Information Systems and Advanced Technologies "ICISAT 2022" : Intelligent Information, Data Science and Decision Support System 2023 / p. 423-433 [https://doi.org/10.1007/978-3-031-25344-7\\_39](https://doi.org/10.1007/978-3-031-25344-7_39) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Autonomous driving validation and verification using digital twins**

**Pikner, Heiko; Malayjerdi, Mohsen; Bellone, Mauro; Baykara, Baris Cem; Sell, Raivo** Proceedings of the 10th International Conference on Vehicle Technology and Intelligent Transport Systems - VEHTS ; Vol. 1 2024 / p. 204-211 <https://doi.org/10.5220/0012546400003702> [Conference Proceeding at Scopus](#) [Article at Scopus](#)

**Backstepping-based output feedback boundary control for coupled fractional reaction-diffusion systems**

Zhuang, Bo; Cui, Bao-Tong; Lou, Xu-Yang; **Chen, Juan** Zidonghua Xuebao/Acta Automatica Sinica 2022 / p. 2729 - 2743 <https://doi.org/10.16383/j.aas.c190389> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Besicovitch pseudodistances with respect to non-følner sequences**

**Capobianco, Silvio;** Guillon, Pierre Complex Systems 2021 / p. 133 - 158 <https://doi.org/10.25088/COMPLEXSYSTEMS.30.2.133> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Chub, Andrii; Vinnikov, Dmitri; Kosenko, Roman; Liivik, Liisa;** Galkin, 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 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](#)

### **Bilateral output feedback control of fractional PDEs with space-dependent coefficients**

Chen, Juan; Tepļakov, Aleksei; Petlenkov, Eduard; Zhuang, Bo IFAC-PapersOnLine 2020 / p. 3743 - 3748

<https://doi.org/10.1016/j.ifacol.2020.12.2555> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

Naranjo-Hernández, David; Reina-Tosina, Javier; Buendía, Rubén; Min, Mart Journal of Sensors 2019 / art. 5078209

<https://doi.org/10.1155/2019/5078209> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Kishan, D.; Chub, Andrii; Vinod, Marupuru IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual

Conference of the IEEE Industrial Electronics Society 2025 / 4 p <https://doi.org/10.1109/IECON55916.2024.10905524> [Conference](#)

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

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

Emiliani, Pietro; Blinov, Andrei; Chub, Andrii; de Carne, Giovanni; Vinnikov, Dmitri IECON 2022 - 48th Annual Conference of the

IEEE Industrial Electronics Society 2022 / 5 p <https://doi.org/10.1109/IECON49645.2022.9968735> [Conference proceedings at Scopus](#)

[Article at Scopus](#)

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

Chen, Juan; Tepļakov, Aleksei; Petlenkov, Eduard; Chen, YangQuan; Zhuang, Bo Systems & control letters 2021 / art. 104875

<https://doi.org/10.1016/j.sysconle.2021.104875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Boundary state and output feedbacks for underactuated systems of coupled time-fractional PDEs with different space-dependent diffusivity**

Chen, Juan; Tepļakov, Aleksei; Petlenkov, Eduard; Zhuang, Bo International journal of systems science 2020 / p. 2922-2942

<https://doi.org/10.1080/00207721.2020.1803442> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Business intelligence and analytics: On-demand ETL over document stores**

Souibgui, Manel; Atigui, Faten; Ben Yahia, Sadok; Si-Said Cherfi, Samira Research Challenges in Information Science : 14th

International Conference, RCIS 2020, Limassol, Cyprus, September 23-25, 2020 : Proceedings 2020 / p. 556-561

[https://doi.org/10.1007/978-3-030-50316-1\\_38](https://doi.org/10.1007/978-3-030-50316-1_38) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

Gyimah, Nafisat; Scheler, Ott; Rang, Toomas; Pardy, Tamas Micromachines 2021 / art. 339 <https://doi.org/10.3390/mi12030339>

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

### **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](#)

### **A case for modern build automation for intelligent systems**

Grunewald, Alexander; Lange, Moritz; Tran, Kim Chi; Astrova, Irina Intelligent Systems and Applications : proceedings of the 2022

Intelligent Systems Conference (IntelliSys). Volume 1 2023 / p. 789-799 [https://doi.org/10.1007/978-3-031-16072-1\\_56](https://doi.org/10.1007/978-3-031-16072-1_56) [Conference](#)

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

### **Case study in experiential learning - from chaos to order: sensemaking with the interactive timeline tool in architecture and civil engineering studies**

Nutt, Nele; Salmistu, Sirle; Meitl, Cassi; Karu, Katrin Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd

International Conference on Interactive Collaborative Learning (ICL2020). Volume 1 2021 / p. 1300-1311 [https://doi.org/10.1007/978-3-](https://doi.org/10.1007/978-3-030-68198-2_8)

[030-68198-2\\_8](https://doi.org/10.1007/978-3-030-68198-2_8) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Centimetre-range deformations of built environment revealed by drone-based photogrammetry**

Varbla, Sander; Ellmann, Artu; Puust, Raido Automation in Construction 2021 / art. 103787

<https://doi.org/10.1016/j.autcon.2021.103787> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Challenges of teaching programming in StackOverflow era**

Pöial, Jaanus Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive

Collaborative Learning (ICL2020). Volume 1 2021 / p. 703-710 [https://doi.org/10.1007/978-3-030-68198-2\\_65](https://doi.org/10.1007/978-3-030-68198-2_65) [Conference proceedings](#)

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

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

Zahraoui, Younes; Alhamrouni, Ibrahim; Mekhilef, Saad; Korōtko, Tarmo; Jusoh, Awang; Sutikno, Tole Bulletin of electrical

engineering and informatics 2023 / p. 1982-1992 : ill <https://doi.org/10.11591/eei.v12i4.4700> [Journal metrics at Scopus](#) [Article at Scopus](#)



**Collaborative project management framework for partner network initiation in machining domain [Online resource]**  
**Ševtšenko, Eduard;** Polyantchikov, Igor; **Mahmood, Kashif;** Kangilaski, Taivo; **Norta, Alexander;** Karaulova, Tatjana; Perm, Ardo Proceedings of the 18th Online World Conference on Soft Computing in Industrial Applications (WSC18) 2018 / p. 215-233 : ill  
[https://doi.org/10.1007/978-3-030-00612-9\\_19](https://doi.org/10.1007/978-3-030-00612-9_19) <https://link.springer.com/content/pdf/bfm%3A978-3-030-00612-9%2F1.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Comments on 'A new kind of nonlinear disturbance observer for nonlinear systems with applications to cruise control of air-breathing hypersonic vehicles'**

**Kaldmäe, Arvo; Kotta, Ülle** International journal of control 2020 / p. 1725 <https://doi.org/10.1080/00207179.2018.1529436> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

**Comments on "When retarded nonlinear time-delay systems admit an input–output representation of neutral type"**  
[Automatica 49 (2013) 561–567]

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

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

**Shabbir, Noman; Vassiljeva, Kristina; Hokmabad, Hossein Nourollahi; 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](#)

**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](#)

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

**Belikov, Juri; Kotta, Ülle; Tönso, Maris** Systems & control letters 2014 / p. 72-78 <https://doi.org/10.1016/j.sysconle.2013.10.009>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Auväärt, Aivar; Rosin, Argo; Rosin, Kai; Drovtar, Imre; Lehtla, Madis** Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 1555-1560 : ill  
<https://ieeexplore.ieee.org/document/6699364> <https://doi.org/10.1109/IECON.2013.6699364> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Component organised learning method for digital supply chain hybrid courses**

**Murumaa, Lea; Ševtšenko, Eduard; Karaulova, Tatjana** Mobility for Smart Cities and Regional Development - Challenges for Higher Education : proceedings of the 24th International Conference on Interactive Collaborative Learning (ICL2021). Vol. 1 2022 / p. 691-705 [https://doi.org/10.1007/978-3-030-93904-5\\_69](https://doi.org/10.1007/978-3-030-93904-5_69) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at Scopus](#)

**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](#)

**Computer science students early drop-out prediction using machine learning : a case study**

**Maksimova, Natalja; Pentel, Avar; Dunajeva, Olga** Learning with Technologies and Technologies in Learning 2022 / p. 523-549  
[https://doi.org/10.1007/978-3-031-04286-7\\_25](https://doi.org/10.1007/978-3-031-04286-7_25) [Article collection metrics at Scopus](#) [Article at Scopus](#)

**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](https://doi.org/10.1007/978-3-031-18458-1_12) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Construction of flat outputs of nonlinear discrete-time systems in a geometric and an algebraic framework**

Kolar, Bernd; **Kaldmäe, Arvo;** Schöberl, Markus; **Kotta, Ülle;** Schlacher, Kurt IFAC-PapersOnLine 2016 / p. 796-801  
<https://doi.org/10.1016/j.ifacol.2016.10.263> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

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

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

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

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

### **COVID-19's impact on the quality of educational process and the academic performance as viewed by IT students : a case study in text mining**

**Dunajeva, Olga; Pentel, Avar; Maksimova, Natalja** ICL 2021: Mobility for Smart Cities and Regional Development - Challenges for Higher Education : proceedings of the 24th International Conference on Interactive Collaborative Learning (ICL2021). Vol. 1 2022 / p. 417-425 [https://doi.org/10.1007/978-3-030-93904-5\\_42](https://doi.org/10.1007/978-3-030-93904-5_42) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Creation of smart-contracting collaborations for decentralized autonomous organizations**

**Norta, Alexander** Perspectives in business informatics research : 14th International Conference, BIR 2015, Tartu, Estonia, August 26-28, 2015 : proceedings 2015 / p. 3-17 [https://doi.org/10.1007/978-3-319-21915-8\\_1](https://doi.org/10.1007/978-3-319-21915-8_1) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Critical aspects for collision induced oil spill response and recovery system in ice conditions: A model-based analysis**

Lu, Liangliang; Goerlandt, Floris; **Tabri, Kristjan**; Hoglund, Anders; Banda, Osiris A. Valdez; Kujala, Pentti Journal of loss prevention in the process industries 2020 / art. 104198, 20 p. : ill <https://doi.org/10.1016/j.jlp.2020.104198> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Cross-disciplinary remote course for mixed group of students and professionals**

Lähdeaho, Oskari; **Hilmola, Olli-Pekka Kristian** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 1 2021 / p. 3-12 [https://doi.org/10.1007/978-3-030-68198-2\\_1](https://doi.org/10.1007/978-3-030-68198-2_1) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

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

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

### **Curricula updates through students' participation in international competition**

**Valme, Daniil; Belolipetskaja, Diana; Rassõlkin, Anton; Leoste, Janika; Rütümann, 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](https://doi.org/10.1007/978-3-031-67059-6_31) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Cyber warfare**

**Ottis, Rain** Cyber security : analytics, technology and automation 2015 / p. 89-96 [https://doi.org/10.1007/978-3-319-18302-2\\_6](https://doi.org/10.1007/978-3-319-18302-2_6) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **Data integration patterns for data warehouse automation**

**Tomingas, Kalle; Kliimask, Margus; Tammet, Tanel** New Trends in Database and Information Systems II : selected papers of the 18th East European Conference on Advances in Databases and Information Systems and Associated Satellite Events, ADBIS 2014 Ohrid, Macedonia, September 7-10, 2014 : proceedings. II 2015 / p. 41-55 [https://doi.org/10.1007/978-3-319-10518-5\\_4](https://doi.org/10.1007/978-3-319-10518-5_4) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **A data-centric algorithm for identifying use cases**

**Eessaar, Erki** Software Engineering Perspectives and Application in Intelligent Systems : proceedings of the 5th Computer Science On-line Conference 2016 (CSOC2016), Vol 2 2016 / p. 303-316 [https://doi.org/10.1007/978-3-319-33622-0\\_28](https://doi.org/10.1007/978-3-319-33622-0_28) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **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](https://doi.org/10.1007/978-981-97-4860-0_22) [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Data-driven control for nonlinear automated vehicles with multi-description coding for handling data dropouts**

Zhang, Shuhua; Ma, Lifeng; **Charalambous, Themistoklis** 2024 IEEE 63rd Conference on Decision and Control (CDC) 2024 / p. 7387 - 7392 <https://doi.org/10.1109/CDC56724.2024.10886494> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Data-driven model predictive techniques for unknown linear time invariant systems**

**Ghorbani, Majid** IEEE Control Systems Letters 2024 / p. 199 - 204 <https://doi.org/10.1109/LCSYS.2024.3359068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

#### **Deep CNN based classification of the Archimedes spiral drawing tests to support diagnostics of the Parkinson's disease**

**Nömm, Sven; Zarembo, Sergei;** Medijainen, Kadri; Taba, Pille; Toomela, Aaro IFAC-Papers OnLine 2020 / p. 260-264 <https://doi.org/10.1016/j.ifacol.2021.04.185> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Deep learning based audio-visual emotion recognition in a smart learning environment**

**Dunajeva, Olga; Pentel, Avar; Ivleva, Natalja; Juštšenko, Valeria** Towards a Hybrid, Flexible and Socially Engaged Higher Education : proceedings of the 26th International Conference on Interactive Collaborative Learning (ICL2023), vol. 1 2024 / p. 420-431 [https://doi.org/10.1007/978-3-031-51979-6\\_44](https://doi.org/10.1007/978-3-031-51979-6_44) [Conference proceedings at scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Degree of Dieudonne determinant defines the order of nonlinear system**

**Kotta, Ülle; Belikov, Juri;** Halas, Miroslav; **Leibak, Alar** International journal of control 2019 / p. 518-527 <https://doi.org/10.1080/00207179.2017.1361042> [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 manufacturing of composite laminates with structural health monitoring capabilities**

**Herranen, Henrik; Majak, Jüri; Tšukrejev, Pavel; Karjust, Kristo; Märtens, Olev** Procedia CIRP 2018 / p. 647-652 : ill <https://doi.org/10.1016/j.procir.2018.03.128> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

#### **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](#)

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

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

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

**Development of a 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 AR-based application for assembly assistance and servicing**

**Mahmood, Kashif; Pizzagalli, Simone Luca; Otto, Tauno; Symotiuk, Ivan** Procedia CIRP 2024 / p. 638-643  
<https://doi.org/10.1016/j.procir.2024.04.017> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Development of critical thinking and reflection**

**Rüütmann, Tiia** The Challenges of the Digital Transformation in Education : proceedings of the 21st International Conference on Interactive Collaborative Learning (ICL2018) - Volume 2 2019 / p. 895-906 [https://doi.org/10.1007/978-3-030-11935-5\\_85](https://doi.org/10.1007/978-3-030-11935-5_85) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Development of teachers' judgement skills as a component of pre- and in-service training**

**Rüütmann, Tiia; Läänemets, Urve; Kaja, Kadi; Kiilu, Kristi** Learning in the age of digital and green transition: proceedings of the 25th international conference on interactive collaborative learning (ICL2022), Volume 2 2023 / p. 639-648 [https://doi.org/10.1007/978-3-031-26190-9\\_67](https://doi.org/10.1007/978-3-031-26190-9_67) [Conference proceedings at Scopus](#) [Article at Scopus](#)

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

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

**Development support for intelligent systems : test, evaluation, and analysis of microservices**

**Perbandt, Charline von; Tyca, Matthias; Koschel, Arne; Astrova, Irina** Intelligent systems and applications : proceedings of the 2021 Intelligent Systems Conference (IntelliSys). Volume 1 2022 / p. 857-875 [https://doi.org/10.1007/978-3-030-82193-7\\_58](https://doi.org/10.1007/978-3-030-82193-7_58) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**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](#)

**A digital services course to promote teaching of informatics in Estonia**

**Kikkas, Kaido; Lorenz, Birgy** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 1 2021 / p. 711-720 [https://doi.org/10.1007/978-3-030-68198-2\\_66](https://doi.org/10.1007/978-3-030-68198-2_66) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

**Raja, Hadi Ashraf; Kudelina, Karolina; Rjabtsikov, 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/10.1007/978-3-031-47454-5\\_9](https://doi.org/10.1007/978-3-031-47454-5_9) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Digitalization of engineering education : from e-learning to smart education**

**Makarova, Irina; Shubenkova, Ksenia; Antov, Dago; Pashkevich, Anton** Smart Industry & Smart Education : proceedings of the 15th International Conference on Remote Engineering and Virtual Instrumentation 2019 / p. 32-41 [https://doi.org/10.1007/978-3-319-95678-7\\_4](https://doi.org/10.1007/978-3-319-95678-7_4) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Disturbance decoupling by measurement feedback**

**Kaldmäe, Arvo; Kotta, Ülle** 19th IFAC World Congress on International Federation of Automatic Control, IFAC 2014 2014 / p. 7735-7740 : ill <https://doi.org/10.3182/20140824-6-za-1003.00216> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Disturbance decoupling for nonlinear systems by measurement feedback: Sensor location**

**Kaldmäe, Arvo; Kotta, Ülle; Shumsky, Alexey; Zhirabok, Alexey** 19th IFAC World Congress on International Federation of Automatic Control, IFAC 2014 2014 / p. 7729-7734 : ill <https://doi.org/10.3182/20140824-6-za-1003.00013> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Disturbance decoupling in nonlinear hybrid systems**

**Kaldmäe, Arvo; Kotta, Ülle; Shumsky, Alexey; Zhirabok, Alexey** Nonlinear analysis : hybrid systems 2018 / p. 42-53  
<https://doi.org/10.1016/j.nahs.2017.11.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Disturbance decoupling of time delay systems**



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

**Diver tracking in open waters : a low-cost approach based on visual and acoustic sensor fusion**

**Remmas, Mohamed Walid**; Chemori, Ahmed; **Kruusmaa, Maarja** Journal of field robotics 2021 / p. 494–508  
<https://doi.org/10.1002/rob.21999> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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

**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](#)

**Efficiency optimization of mini unmanned multicopter**

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

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

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

**Efficient topic detection using an adaptive neural network architecture**

**Ben Yahia, Sadok**; Manai, Meriem Advances in Information Systems, Artificial Intelligence and Knowledge Management(ICIKS 2023) 2024 / p. 145-157 [https://doi.org/10.1007/978-3-031-51664-1\\_10](https://doi.org/10.1007/978-3-031-51664-1_10) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

**Energy-efficient multi-fragment Markov model guided online model-based testing for MPSoC**

**Vain, Jüri**; **Tsiopoulos, Leonidas**; Kharchenko, Vyacheslav; **Apneet Kaur**; **Jenihhin, Maksim**; **Raik, Jaan**; **Nömm, Sven** Green IT Engineering: Social, Business and Industrial Applications 2019 / p. 273-297 [https://doi.org/10.1007/978-3-030-00253-4\\_12](https://doi.org/10.1007/978-3-030-00253-4_12) [Article collection at Scopus](#) [Article at Scopus](#)

**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](https://doi.org/10.1007/978-3-030-68201-9_78) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Enhancing the partner selection process in a Sustainable Partner Network**

**Ševtšenko, Eduard**; **Mahmood, Kashif**; **Karaulova, Tatjana** IFAC-PapersOnLine 2019 / p. 2425-2430 : ill  
<https://doi.org/10.1016/j.ifacol.2019.11.570> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Enhancing university visitor satisfaction : a human-robot interaction study on the design and perception of a guiding robot assistant**

**Leoste, Janika**; **Marmor, Kristel**; **Hollstein, Thomas**; Hinkelmann, Heiko; **Leoste, Leo Benjamin** Robotics in education : proceedings of the RiE 2024 conference 2024 / p. 223-234 [https://doi.org/10.1007/978-3-031-67059-6\\_20](https://doi.org/10.1007/978-3-031-67059-6_20) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**The Erasmus+ strategic partnership as a way to attract young people to engineering**

Stepien, Mariusz; Berger, Kevin; **Rassölkin, 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](https://doi.org/10.1007/978-3-030-20135-7_25) [Conference](#)

### **Ethical attitudes among engineering students : some preliminary insights**

**Durst, Susanne; Pevkur, Aive; Parts, Velli** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 780-788 [https://doi.org/10.1007/978-3-030-68201-9\\_77](https://doi.org/10.1007/978-3-030-68201-9_77) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Evaluating construction education interventions**

**Olowa, Theophilus Oluwarotimi Olatunde; Witt, Emlyn David Qivitoq; Lill, Irene** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 138-149 [https://doi.org/10.1007/978-3-030-68201-9\\_49](https://doi.org/10.1007/978-3-030-68201-9_49) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Evaluating maritime cluster economic impact : the maritime cluster impact index**

**Nõmmela, Kaidi; Kõrbe Kaare, Kati** Reliability and Statistics in Transportation and Communication : selected papers from the 21st International Multidisciplinary Conference on Reliability and Statistics in Transportation and Communication, RelStat2021, 14-15 October 2021, Riga, Latvia 2022 / p. 556-565 [https://doi.org/10.1007/978-3-030-96196-1\\_51](https://doi.org/10.1007/978-3-030-96196-1_51) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Evaluating NTT/INTT implementation styles for post-quantum cryptography**

**Imran, Malik; Khan, Safiullah; Khalid, Ayesha; Rafferty, Ciara; Ali Shah, Yasir; Pagliarini, Samuel; Rashid, Muhammad; O'Neill, Maire** IEEE Embedded Systems Letters 2024 / p. 485 - 488 <https://doi.org/10.1109/LES.2024.3410516> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Evaluation of Estonian phosphate rock by flotation**

**Yang, Xiaosheng; Tamm, Kadriann; Piir, Indrek; Kuusik, Rein, keemik; Triikkel, Andres; Tõnsuaadu, Kaia** Minerals engineering 2021 / art. 107127, 10 p. : ill <https://doi.org/10.1016/j.mineng.2021.107127> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Evaluation of semantic parsing frameworks for automated knowledge base construction**

**Verrev, Martin** Intelligent systems design and applications 22nd International Conference on Intelligent Systems Design and Applications (ISDA 2022) held December 12-14, 2022 - Volume 1 2023 / p. 554-563 [https://doi.org/10.1007/978-3-031-27440-4\\_53](https://doi.org/10.1007/978-3-031-27440-4_53) <https://link.springer.com/book/10.1007/978-3-031-27440-4> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Event-based control for differentially flat systems: application to autonomous underwater vehicle**

**Kaldmäe, Arvo; Kotta, Ülle; Meurer, Christian; Simha, Ashutosh** IFAC-PapersOnLine 2019 / p. 180-185 <https://doi.org/10.1016/j.ifacol.2019.11.775> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Event-triggered resilient distributed extended Kalman filter with consensus on estimation**

**Rezaei, Hossein; Ghorbani, Majid** International Journal of Robust and Nonlinear Control 2022 / p. 1303 - 1315 <https://doi.org/10.1002/rnc.5881> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Experience in an application of project-based learning to teaching of mechanical engineering and energy technology processes control**

**Hõbesaar, Aleksei; Baraškova, Tatjana; Shirokova, Veroonika** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 1 2021 / p. 417-428 [https://doi.org/10.1007/978-3-030-68198-2\\_39](https://doi.org/10.1007/978-3-030-68198-2_39) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Experiences from maritime logistics distance learning course**

**Hilmola, Olli-Pekka Kristian; Palu, Riina; Tolli, Andres** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 1 2021 / p. 577-585 [https://doi.org/10.1007/978-3-030-68198-2\\_53](https://doi.org/10.1007/978-3-030-68198-2_53) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **An experimental comparison of heuristic coloring algorithms in terms of found color classes on random graphs**

**Kumlander, Deniss; Kulitškov, Aleksei** WCGO 2019: Optimization of Complex Systems: Theory, Models, Algorithms and Applications 2020 / p. 365-375 [https://doi.org/10.1007/978-3-030-21803-4\\_37](https://doi.org/10.1007/978-3-030-21803-4_37) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Experimental investigation of air distribution and ventilation efficiency in an ice rink arena**

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

### **Experimental Investigation of high frequency 3L-NPC qZS inverter for photovoltaic application**

**Husev, Oleksandr; Stepenko, Serhii; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Strzelecki, Ryszard** Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5969-5974 : ill <https://doi.org/10.1109/IECON.2013.6700114> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

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

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

### **Experimental validation of the Newton observer for a nonlinear flux-controlled AMB system operated with zero-bias flux**

**Mystkowski, Arkadiusz; Kierdelewicz, A.; Kotta, Ülle; Kaparin, Vadim** International journal of control 2020 / p. 2257-2266 : ill

<https://doi.org/10.1080/00207179.2018.1552025> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Exploring challenges in remote communication : comparing teleconferencing software and telepresence robots usage in higher education**

**Talisainen, Aleksei; Leoste, Janika; Virkus, Sirje** Proceedings of the Future Technologies Conference (FTC) 2024, Volume 2 2024

/ p. 287 - 300 [https://doi.org/10.1007/978-3-031-73122-8\\_18](https://doi.org/10.1007/978-3-031-73122-8_18) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

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

### **Extended observer form : simple existence conditions**

**Kaparin, Vadim; Kotta, Ülle; Mullari, Tanel** International journal of control 2013 / p. 794-803 : ill

<https://doi.org/10.1080/00207179.2012.760048> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Extended observer form with vector fields**

**Mullari, Tanel; Kotta, Ülle; Kaldmäe, Arvo; Kaparin, Vadim; Simha, Ashutosh** International journal of control 2024 / p. 2399 - 2412

<https://doi.org/10.1080/00207179.2023.2274060> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Extending the “Smart City” concept to small-to-medium sized Estonian municipalities: initiatives and challenges faced**

**Fröhlich, K. A.; Soe, Ralf-Martin; Maoneke, P.B.; Jain, K.; Pinomaa, A.; Nieminen, M.** Information Systems : 19th European, Mediterranean, and Middle Eastern Conference, EMCIS 2022, Virtual Event, December 21–22, 2022 : proceedings 2023 / p. 264–276 [https://doi.org/10.1007/978-3-031-30694-5\\_20](https://doi.org/10.1007/978-3-031-30694-5_20) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Factors of socially engineering citizens in critical situations**

**Lorenz, Birgy; Kikkas, Kaido; Osula, Kairi** Advances in Human Factors in Cybersecurity : proceedings of the AHFE 2018 :

International Conference on Human Factors in Cybersecurity, July 21-25, 2018, Loews Sapphire Falls Resort at Universal Studios, Orlando, Florida, USA 2019 / p. 229-240 [https://doi.org/10.1007/978-3-319-94782-2\\_23](https://doi.org/10.1007/978-3-319-94782-2_23) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **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](#)

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

**Loni, Mohammad; Zoljodi, Ali; Majd, Amin; Ahn, Byung Hoon; Daneshthalab, Masoud; Sjödin, Mikael; Esmaeilzadeh, Hadi** IEEE

Transactions on Systems, Man, and Cybernetics : Systems 2022 / p. 5222-5234 : ill <https://doi.org/10.1109/TSMC.2021.3123136> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Kudelina, Karolina; Baráškova, Tatjana; Shirokova, Veroonika; Vaimann, Toomas; Rassõlkin, Anton** Machines 2022 / art. 86

<https://doi.org/10.3390/machines10020086> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Senanayaka, Jagath; Khang, Huynh Van; Rassõlkin, Anton; Vaimann, Toomas; Zakis, Janis; Pomarnacki, Raimondas** IECON

2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6

<https://doi.org/10.1109/IECON49645.2022.9968572> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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

**Kaldmäe, Arvo; Kotta, Ülle; Jiang, Bin; Shumsky, Alexey Ye.; Zhirabok, Alexey N.** Asian journal of control 2016 / p. 858-867 : ill

<https://doi.org/10.1002/asjc.1185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Faulty plant reconfiguration by measurement feedback: Sensor location**

**Kaldmäe, Arvo; Kotta, Ülle; Shumsky, Alexey; Zhirabok, Alexey** IFAC-PapersOnLine 2015 / p. 1283-1288 : ill

<https://doi.org/10.1016/j.ifacol.2015.09.702> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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

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

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

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

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

### **Fiducial marker-based monocular localization for autonomous docking**

**Pivonka, Tomas; Sell, Raivo; Pikner, Heiko; Preucil, Libor** IFAC-PapersOnLine 2023 / p. 2957-2962 <https://doi.org/10.1016/j.ifacol.2023.10.1419> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

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

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

### **Fixed-order stabilising controller design by a mixed randomised/deterministic method**

**Nurges, Ülo; Avanessov, Sergei** International journal of control 2015 / p. 335-346 <https://doi.org/10.1080/00207179.2014.953208> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A flapped paddle-fin for improving underwater propulsive efficiency of oscillatory actuation**

**Simha, Ashutosh; Gkliva, Roza; Kotta, Ülle; Kruusmaa, Maarja** IEEE robotics and automation letters 2020 / p. 3176-3181 <https://doi.org/10.1109/LRA.2020.2975747> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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

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

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

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

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

### **FOPID controllers and their industrial applications: a survey of recent results**

**Tepljakov, Aleksei;** Alagoz, Baris Baykant; **Petlenkov, Eduard** IFAC-PapersOnLine 2018 / p. 25-30 <https://doi.org/10.1016/j.ifacol.2018.06.014> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

### **Formal methods based security for cloud-based manufacturing cyber physical system**



Muniasamy, Kandasamy; Srinivasan, Seshadhri; **Vain, Jüri**; Sethumadhavan, M. IFAC-PapersOnLine 2019 / p. 1198-1203  
<https://doi.org/10.1016/j.ifacol.2019.11.361> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

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

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

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

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

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

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

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

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

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

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

#### **Fuzzy AHP as a tool for prioritization of key performance indicators**

**Kaganski, Sergei; Majak, Jüri; Karjust, Kristo** Procedia CIRP 2018 / p. 1227-1232 : ill <https://doi.org/10.1016/j.procir.2018.03.097>  
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Fuzzy logic and slip controller of clutch and vibration for hybrid vehicle**

**Vu, Trieu Minh**; Pumwa, John International journal of control, automation and systems 2013 / p. 526-532 : ill  
<https://doi.org/10.1007/s12555-012-0006-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Future of governance for digital platform ecosystems**

**Kitsing, Meelis; Vallistu, Johanna** Proceedings of Fifth International Congress on Information and Communication Technology : ICICT 2020, London ; 2 2021 / p. 334-341 [https://doi.org/10.1007/978-981-15-5859-7\\_33](https://doi.org/10.1007/978-981-15-5859-7_33) [Article collection metrics at Scopus](#) [Article at Scopus](#)

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

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

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

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

#### **Generation of stable polytopes of Hurwitz polynomials via Routh parameters**

**Nurges, Ülo; Artemtšuk, Igor; Belikov, Juri** 53rd IEEE Conference on Decision and Control : December 15-17, 2014, Los Angeles, California, USA 2014 / p. 2390-2395 : ill <https://doi.org/10.1109/CDC.2014.7039753> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Generative adversarial networks as a data augmentation tool for CNN-based Parkinson's disease diagnostics**

**Dzotsenidze, Erik; Valla, Elli; Nömm, Sven**; Medijainen, Kadri; Taba, Pille; Toomela, Aaro IFAC-Papers OnLine 2022 / p. 108-113 : ill <https://doi.org/10.1016/j.ifacol.2022.10.240> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Geodesic equations for guided wave helical path separation for a pipe bend**

**Rasgado Moreno, Carlos Omar; Ratssepp, Madis** Mechanical systems and signal processing 2023 / art. 110820  
<https://doi.org/10.1016/j.ymssp.2023.110820> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A global survey of standardization and industry practices of automotive cybersecurity validation and verification testing processes and tools**

**Roberts, Andrew James**; Marksteiner, Stefan; Soyuturk, Mujdat; Yaman, Berkay; Yang, Yi SAE international journal of connected and automated vehicles 2023 / art. 12-07-02-0013 <https://doi.org/10.4271/12-07-02-0013> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Graphical tuning for robust stabilization : implementable stability regions for fractional-order proportional integral controllers in interval fractional-order systems**

**Ghorbani, Majid**; Farnam, Arash; **Tepljakov, Aleksei**; **Petlenkov, Eduard**; Crevecoeur, Guillaume; Eskandarian, Azim 2024 IEEE 63rd Conference on Decision and Control (CDC) 2024 / p. 8902 - 8907 <https://doi.org/10.1109/CDC56724.2024.10885794> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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

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

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

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

**Guest editorial : implementation issues in system-on-chip**

**Ellervee, Peeter**; Nurmi, Jari Journal of signal processing systems 2017 / p. 269-270 <https://doi.org/10.1007/s11265-017-1242-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Guest editorial: New boundaries for robotics**

**Kruusmaa, Maarja**; Tan, Xiaobo; Laschi, Cecilia; Fioroni, Paolo; Madhavan, Raj Robotics and autonomous systems 2014 / p. 1-2 <https://doi.org/10.1016/j.robot.2012.12.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

**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](#)

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

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

**Hardware-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](#)

**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](#)

**Harnessing cloud scalability to hadoop clusters**

Koschel, Arne; Heine, Felix; **Astrova, Irina** Information Systems 15th European, Mediterranean, and Middle Eastern Conference, EMCIS 2018 : Limassol, Cyprus, October 4–5, 2018 : proceedings 2019 / p. 59-71 [https://doi.org/10.1007/978-3-030-11395-7\\_6](https://doi.org/10.1007/978-3-030-11395-7_6) [Conference proceeding at Scopus](#) [Article at Scopus](#)

**Harnessing HARQ retransmissions for fast average consensus over unreliable communication channels**

Makridis, Evagoras; **Charalambous, Themistoklis**; Hadjicostis, Christoforos N. 62nd IEEE Conference on Decision and Control, CDC 2023, Singapore, 13-15 December 2023 2023 / p. 5437-5443 : ill <https://doi.org/10.1109/CDC49753.2023.10383677> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Health and safety management at workplaces through interactive tools**

**Kontus, Sigrid**; **Reinhold, Karin** Human Interaction, Emerging Technologies and Future Applications IV : Proceedings of the 4th International Conference on Human Interaction and Emerging Technologies: Future Applications (IHET – AI 2021), April 28-30, 2021,

Strasbourg, France 2021 / p. 686–693 [https://doi.org/10.1007/978-3-030-74009-2\\_87](https://doi.org/10.1007/978-3-030-74009-2_87) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

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

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

**Blinov, Andrei; Korkh, Oleksandr; Chub, Andrii; Vinnikov, Dmitri**; Pefitsis, 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 virucidal potential of novel ceramic-metal composites fabricated via hybrid selective laser melting and spark plasma sintering routes**

**Rahmani Ahranjani, Ramin**; Molan, Katja; Brojan, Miha; **Prashanth, Konda Gokuldoss**; Stopar, David The international journal of advanced manufacturing technology 2022 / p. 975–988 : ill <https://doi.org/10.1007/s00170-022-08878-x> [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](#)

**Higher education teachers' perceptions about teaching and learning related qualities of telepresence robots**

**Leoste, Janika**; Virkus, Sirje; **Talisainen, Aleksei** ROBOT2022 : Fifth Iberian Robotics Conference : Advances in Robotics. Vol. 1 2022 / p. 526–537 [https://doi.org/10.1007/978-3-031-21065-5\\_43](https://doi.org/10.1007/978-3-031-21065-5_43) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**How the Anti-TrustRank algorithm can help to protect the reputation of financial institutions**

**Astrova, Irina** Research Challenges in Information Science : 14th International Conference, RCIS 2020, Limassol, Cyprus, September 23–25, 2020 : Proceedings 2020 / p. 503–508 [https://doi.org/10.1007/978-3-030-50316-1\\_30](https://doi.org/10.1007/978-3-030-50316-1_30) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**ICT and business alignment in Partner Network : will the alignment depend on maturities?**

**Kangilaski, Taivo** Proceedings of 7th IFAC Conference on Manufacturing Modelling, Management, and Control, 2013 2013 / p. 573–578 <https://doi.org/10.3182/20130619-3-RU-3018.00047> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**The impact of a transdisciplinary STEAM teacher training course on the integration of robotics in early childhood education**

Rossi, Matti; Saimon, Musa; **Leoste, Janika**; Fenyvesi, Kristof; Lavicza, Zsolt Robotics in education : proceedings of the RiE 2024 conference 2024 / p. 114–125 : ill [https://doi.org/10.1007/978-3-031-67059-6\\_11](https://doi.org/10.1007/978-3-031-67059-6_11) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Impact of bearing faults on vibration level of BLDC motor**

**Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1–6 : ill <https://doi.org/10.1109/IECON48115.2021.9589268> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Impact of load matching algorithms on the battery capacity with different household occupancies**

**Häring, Tobias; Ahmadiyahangar, 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](#)

**Implementation of e-birth registration systems : potential and challenges the case study of Iran**

**Shahin, Mahtab; Eskandri, Fatemeh; Ahmed, Rozha Kamal; Draheim, Dirk** ICT systems and sustainability : proceedings of ICT4SD 2021, Volume 1 2022 / p. 861–872 : ill [https://doi.org/10.1007/978-981-16-5987-4\\_85](https://doi.org/10.1007/978-981-16-5987-4_85) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Implementation of electronic records management systems : potential and challenges a case study of the Water and Power Development Authority (WAPDA) in Pakistan**

**Butt, Sidra Azmat; Pappel, Ingrid; Oolu, Karin** ICT Analysis and Applications : 23–24 July 2020, Panaji, Goa, India : proceedings of ICT4SD 2020. Vol. 2 2021 / p. 629–639 [https://doi.org/10.1007/978-981-15-8354-4\\_63](https://doi.org/10.1007/978-981-15-8354-4_63) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Implementation of key performance indicators selection model as part of the enterprise analysis model**

**Kaganski, Sergei; Majak, Jüri; Karjust, Kristo; Toompalu, Silver** Procedia CIRP 2017 / p. 283-288 : ill  
<https://doi.org/10.1016/j.procir.2017.03.143> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Implementation of series resonance-based fault current limiter for enhanced transient stability of grid-connected photovoltaic farm**

**Demin, Slava; Barbie, Eli; Heistrene, Leena; Belikov, Juri; Petlenkov, Eduard;** Levron, Yoash; Baimel, Dmitry Electronics (Switzerland) 2024 / art. 2987 <https://doi.org/10.3390/electronics13152987> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved diagnostic approach for BRB detection and classification in inverter-driven induction motors employing sparse stacked autoencoder (SSAE) and lightGBM**

**Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants** Electronics (Switzerland) 2024 / art. 1292  
<https://doi.org/10.3390/electronics13071292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved fault classification and localization in power transmission networks using vae-generated synthetic data and machine learning algorithms**

**Khan, Muhammad Amir; Asad, Bilal; Vaimann, Toomas; Kallaste, Ants;** Pomarnacki, Raimondas; Hyunh, Van Khang Machines 2023 / art. 963 <https://doi.org/10.3390/machines11100963> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved fractional open circuit voltage MPPT methods for PV systems**

**Baimel, Dmitry; Tapuchi, Saad; Levron, Yoash; Belikov, Juri** Electronics 2019 / art. 321 <https://doi.org/10.3390/electronics8030321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved PWM-based sinewave generation : example of the impedance measurement**

**Abdullayev, Anar; Annus, Paul; Krivošei, Andrei; Metshein, Margus; Märten, Olev;** Rist, Marek Automatic control and computer sciences 2023 / p. 449-458 <https://doi.org/10.3103/S0146411623050024> [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 court efficiency through ICT integration : identifying essential areas of improvement**

**Ahmed, Rozha Kamal; Muhammed, Khder H.; Reitsakas, Aleksander; Pappel, Ingrid; Draheim, Dirk** ICT Analysis and Applications : proceedings of ICT4SD 2019. Vol. 2 2020 / p. 449-461 : ill [https://doi.org/10.1007/978-981-15-0630-7\\_44](https://doi.org/10.1007/978-981-15-0630-7_44) [Article collection at Scopus](#) [Article at Scopus](#)

**Improving healthcare processes with smart contracts**

**Kormiltsõn, Aleksandr; Udokwu, Chibuzor; Karu, Kalev; Thangalimodzi, Kondwani; Norta, Alexander** Business Information Systems : 22nd International Conference, BIS 2019, Seville, Spain, June 26–28, 2019 : proceedings. Part I 2019 / p. 500-513  
[https://doi.org/10.1007/978-3-030-20485-3\\_39](https://doi.org/10.1007/978-3-030-20485-3_39) [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Improving learning efficiency and evaluation fairness for cyber security courses : a case study**

**Caliskan, Emin; Vaarandi, Risto; Lorenz, Birgy** Intelligent Computing : Proceedings of the 2019 Computing Conference. Volume 2 2019 / p. 622-638 [https://doi.org/10.1007/978-3-030-22868-2\\_45](https://doi.org/10.1007/978-3-030-22868-2_45) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Incorporation of fractional-order dynamics into an existing PI/PID DC motor control loop**

**Tepljakov, Aleksei;** Gonzales, Emmanuel A.; **Petlenkov, Eduard; Belikov, Juri;** Monje, Concepcion A.; Petraš, Ivo ISA transactions 2016 / p. 262-273 : ill <https://doi.org/10.1016/j.isatra.2015.11.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of wedge material on losses of a traction motor with tooth-coil windings**

**Lindh, Pia; Pyrhönen, Juha; Ponomarev, P.; Vinnikov, Dmitri** Proceedings IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 2941-2946 : ill  
<https://doi.org/10.1109/IECON.2013.6699598> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Innovative common study block framework for joined collaborative curriculums development**

**Ševtšenko, Eduard; Nõuakas, Kati; Murumaa, Lea; Kallas, Oliver; Karaulova, Tatjana** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 1 2021 / p. 30-41 [https://doi.org/10.1007/978-3-030-68198-2\\_3](https://doi.org/10.1007/978-3-030-68198-2_3) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)



### **Input-output decoupling of discrete-time nonlinear systems by dynamic measurement feedback**

**Kaldmäe, Arvo; Kotta, Ülle** European journal of control 2017 / p. 31-38 : ill <https://doi.org/10.1016/j.ejcon.2016.12.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Input-output linearization of discrete-time systems by dynamic output feedback**

**Kaldmäe, Arvo; Kotta, Ülle** European journal of control 2014 / p. 73-78 <https://doi.org/10.1016/j.ejcon.2013.12.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **An insight on mud behavior upon stepping**

**Godon, Simon Pierre; Ristolainen, Asko; Kruusmaa, Maarja** IEEE robotics and automation letters 2022 / p. 11039-11046 <https://doi.org/10.1109/LRA.2022.3194667> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Integrability for nonlinear time-delay systems**

**Kaldmäe, Arvo; Califano, Claudia; Moog, Claude** IEEE transactions on automatic control 2016 / p. 1912-1917 <https://doi.org/10.1109/TAC.2015.2482003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Integration of blockchain technology into a land registration system for immutable traceability : a casestudy of Georgia**

**Lazuashvili, Nino; Norta, Alexander; Draheim, Dirk** Business Process Management : Blockchain and Central and Eastern Europe Forum :BPM 2019 Blockchain and CEE Forum : Vienna, Austria, September 1–6, 2019 : proceedings 2019 / p. 219-233 [https://doi.org/10.1007/978-3-030-30429-4\\_15](https://doi.org/10.1007/978-3-030-30429-4_15) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Integration of 'Central' and 'Peripheral' Nervous Systems in Scrub Nurse Robot and Comparison Between 'Voluntary' and 'Reflex' Movements**

**Miyawaki, Fujio; Suzuki, Miho; Anier, Aivo; Vain, Jüri** IFAC-PapersOnLine 2019 / p. 229-234 : ill <https://doi.org/10.1016/j.ifacol.2019.12.103> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Interactive teaching methods as human factors management tool in dangerous goods transport on roads**

**Janno, Jelizaveta; Koppel, Ott** Teaching and Learning in a Digital World : proceedings of the 20th International Conference on Interactive Collaborative Learning. Volume 1 2018 / p. 619-628 [https://link.springer.com/chapter/10.1007/978-3-319-73210-7\\_72](https://link.springer.com/chapter/10.1007/978-3-319-73210-7_72) [https://doi.org/10.1007/978-3-319-73210-7\\_72](https://doi.org/10.1007/978-3-319-73210-7_72) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Interpretable machine learning for SME financial distress prediction**

**Medianovskiy, Kyrlo; Malakauskas, Aidias; Lakstutiene, Ausrine; Ben Yahia, Sadok** 12th International Conference on Information Systems and Advanced Technologies "ICISAT 2022" : Intelligent Information, Data Science and Decision Support System 2023 / p. 454 - 464 [https://doi.org/10.1007/978-3-031-25344-7\\_42](https://doi.org/10.1007/978-3-031-25344-7_42) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **Intrinsic conditions for extended observer forms for nonlinear systems**

**Simha, Ashutosh; Respondek, Witold; Kaldmäe, Arvo; Kaparin, Vadim; Kotta, Ülle** 2018 IEEE Conference on Decision and Control (CDC), 17-19 Dec. 2018, 17-19 Dec. 2018 : proceedings 2018 / p. 1373-1378 <https://doi.org/10.1109/CDC.2018.8619122> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Iterative Learning based feedforward control for Transition of a Biplane-Quadrotor Tailsitter UAS**

**Raj, Nidhish; Simha, Ashutosh; Kothari, Mangal; Abhishek; Banavar, Ravi N.** 2020 IEEE International Conference on Robotics and Automation (ICRA), 31 May-31 Aug. 2020, Paris, France : proceedings 2020 / p. 321-327 : ill <https://doi.org/10.1109/ICRA40945.2020.9196671> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Joint planning of EV fast charging stations and power distribution systems with balanced traffic flow assignment**

**Yang, Wentao; Liu, Weijia; Chung, Chi Yung; Wen, Fushuan** IEEE transactions on industrial informatics 2021 / p. 1795–1809 : ill <https://doi.org/10.1109/TII.2020.2995742> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Kalman-filter based maximum power point tracking for a single-stage grid-connected photovoltaic system**

**Farrokhi, Ehsan; Ghoreishy, Hoda; Ahmadihangar, Roya; Rosin, Argo** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / Code 173927 <https://doi.org/10.1109/IECON48115.2021.9589653> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Knowledge management framework for six sigma performance level assessment**

**Sahno, Jevgeni; Ševtšenko, Eduard; Karaulova, Tatjana** Advances in information systems and technologies 2013 / p. 255-267 [https://doi.org/10.1007/978-3-642-36981-0\\_25](https://doi.org/10.1007/978-3-642-36981-0_25) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Knowledge retention in oil and gas industry - the case of contract workforce**

**Sumbal, Muhammad Saleem Ullah Khan; Irfan, Irfan; Durst, Susanne; Sahibzada, Umar Farooq; Waseem, Muhammad Adnan; Tsui, Eric Kybernetes** 2023 / p. 1552-1571 <https://doi.org/10.1108/K-06-2021-0458> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Layout planning and analysis of a Flexible Manufacturing System based on 3D Simulation and Virtual Reality**

**Mahmood, Kashif; Otto, Tauno; Chakraborty, A.** Procedia CIRP 2023 / p. 201-206 <https://doi.org/10.1016/j.procir.2023.08.036>

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

### **Learning content revisited : basis for creating a system of educational (pedagogical) activities**

Rüütmann, Tiia; Läänemets, Urve; Kaja, Kadi Towards a hybrid, flexible and socially engaged higher education : proceedings of the 26th international conference on interactive collaborative learning (icl2023), volume 4 2024 / p. 342-352 [https://doi.org/10.1007/978-3-031-53022-7\\_9](https://doi.org/10.1007/978-3-031-53022-7_9) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Learning timed automata from interaction traces**

Vain, Jüri; Kanter, Gert; Anier, Aivo IFAC-PapersOnLine 2019 / p. 205-210 <https://doi.org/10.1016/j.ifacol.2019.12.097> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Learning to program with Lego Mindstorms - difference between K-12 students and adults**

Umbleja, Kadri Teaching and Learning in a Digital World : proceedings of the 20th International Conference on Interactive Collaborative Learning. Volume 2 2018 / p. 447-458 [https://link.springer.com/chapter/10.1007/978-3-319-73204-6\\_49](https://link.springer.com/chapter/10.1007/978-3-319-73204-6_49) [https://doi.org/10.1007/978-3-319-73204-6\\_49](https://doi.org/10.1007/978-3-319-73204-6_49) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **A linear filtering framework for nonlinear systems based on extended output injection**

Simha, Ashutosh; Kotta, Ülle IFAC-PapersOnLine 2019 / p. 274-279 <https://doi.org/10.1016/j.ifacol.2019.11.791> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Low-power Wind Generation grid-connected system with MPPT and PC control**

Rosa, Carlos; Vinnikov, Dmitri; Romero-Cadaval, Enrique; Pires, Vitor; Martins, Joao Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5991-5996 : ill <https://doi.org/10.1109/IECON.2013.6700118> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **LQG problem of descriptor systems and separation principle**

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard 2024 IEEE 63rd Conference on Decision and Control (CDC) 2024 / p. 1412 - 1417 <https://doi.org/10.1109/CDC56724.2024.10886178> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Machine learning approach for flexibility characterisation of residential space heating**

Häring, Tobias; Ahmadihangar, Roya; Rosin, Argo; Biechl, Helmuth IECON 2021 - 47th Annual Conference of the IEEE Industrial Electronics Society, Toronto, Canada, Oct. 13-16, 2021 2021 / 6 p. : ill <https://doi.org/10.1109/IECON48115.2021.9589216> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Machine learning based analysis of the upper limb freezing during handwriting in Parkinson's disease patients**

Gorbatšov, Vassili; Valla, Elli; Nömm, Sven; Medijainen, Kadri; Taba, Pille; Toomela, Aaro IFAC-PapersOnLine 2022 / p. 91-95 <https://doi.org/10.1016/j.ifacol.2022.10.237> [Conference Proceeding metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Machine learning based emotion recognition in a digital learning environment**

Ivleva, Natalja; Pentel, Avar; Dunajeva, Olga; Juštšenko, Valeria Learning in the Age of Digital and Green Transition : Proceedings of the 25th International Conference on Interactive Collaborative Learning (ICL2022), Volume 1 2023 / p. 405-412 [https://doi.org/10.1007/978-3-031-26876-2\\_38](https://doi.org/10.1007/978-3-031-26876-2_38) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Main physicochemical factors affecting the aqueous carbonation of oil shale ash**

Uibu, Mai; Kuusik, Rein; Keemik Minerals engineering 2014 / p. 64-70 : ill <https://doi.org/10.1016/j.mineng.2013.10.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Malicious accounts detection from online social networks : a systematic review of literature**

Ben Sassi, Imen; Ben Yahia, Sadok International Journal of General Systems 2021 / p. 741-814 <https://doi.org/10.1080/03081079.2021.1976773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Maritime investment appraisal: The case of waste heat recovery systems installation**

Olaniyi, Eunice Omolola; Prause, Gunnar Klaus Reliability and statistics in transportation and communication : Selected Papers from the 20th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'20, 14-17 October 2020, Riga, Latvia 2021 / p. 603-612 [https://doi.org/10.1007/978-3-030-68476-1\\_56](https://doi.org/10.1007/978-3-030-68476-1_56) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **Maturity Model for Automatization of Service Provision and Decision-Making Processes in Municipalities**

Pappel, Ingmar; Gelashvili, Teona; Pappel, Ingrid Proceedings of Sixth International Congress on Information and Communication Technology 2022 / p. 399-409 : ill [https://doi.org/10.1007/978-981-16-1781-2\\_37](https://doi.org/10.1007/978-981-16-1781-2_37) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Measurement feedback disturbance decoupling in discrete-event systems**

Kaldmäe, Arvo; Kotta, Ülle; Shumsky, Alexey; Zhirabok, Alexey International journal of robust and nonlinear control 2015 / p. 3330-3348 <https://doi.org/10.1002/rnc.3265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Measurement feedback disturbance decoupling in discrete-time nonlinear systems**

**Kaldmäe, Arvo; Kotta, Ülle;** Shumsky, Alexey Ye.; Zhirabok, Alexey N. Automatica 2013 / p. 2887-2891 : ill  
<https://doi.org/10.1016/j.automatica.2013.06.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Measuring complexity of legislation. A systems engineering approach**

**Kütt, Andres; Kask, Laura** Proceedings of Fifth International Congress on Information and Communication Technology : ICICT 2020, Vol. 1 2021 / p. 75-94 [https://doi.org/10.1007/978-981-15-5856-6\\_7](https://doi.org/10.1007/978-981-15-5856-6_7) [Article collection metrics at Scopus](#) [Article at Scopus](#)

#### **Measuring explainability and trustworthiness of power quality disturbances classifiers using XAI - explainable artificial intelligence**

Machlev, Ram; Perl, Michael; **Belikov, Juri;** Levy, Kfir; Levron, Yoash IEEE transactions on industrial informatics 2022 / p. 5127-5137 <https://doi.org/10.1109/TII.2021.3126111> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Mechanical activation of magnesium silicates for mineral carbonation, a review**

Li, Jiajie; **Hitch, Michael William** Minerals engineering 2018 / p. 69-83 : ill <https://doi.org/10.1016/j.mineng.2018.08.034> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Method for evaluating information security level in organisations**

Seeba, Mari; **Mäses, Sten;** Matulevičius, Raimundas Research Challenges in Information Science : 16th International Conference, RCIS 2022 : Barcelona, Spain, May 17-20, 2022 : proceedings 2022 / p. 644-652 : ill [https://doi.org/10.1007/978-3-031-05760-1\\_39](https://doi.org/10.1007/978-3-031-05760-1_39) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Methods and tools for healthcare data anonymization : a literature review**

**Vovk, Olga; Piho, Gunnar; Ross, Peeter** International Journal of General Systems 2023 / p. 326-342 : ill  
<https://doi.org/10.1080/03081079.2023.2173749> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Minimal realizations of nonlinear systems**

**Kotta, Ülle;** Moog, Claude; **Tönso, Maris** Automatica 2018 / p. 207-212 <https://doi.org/10.1016/j.automatica.2018.05.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Minimal realizations of nonlinear time-delay systems**

**Kaldmäe, Arvo;** Zbigniew, Bartosiewicz; **Kotta, Ülle;** Wyrwas, Malgorzata IEEE transactions on automatic control 2023 / p. 6766 - 6772 <https://doi.org/10.1109/TAC.2023.3240124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **The minimal time-varying realization of a nonlinear time-invariant system?**

**Kotta, Ülle;** Moog, Claude H.; **Tönso, Maris** 9th IFAC Symposium on Nonlinear Control Systems 2013 : Toulouse, France, 4 - 6 September 2013 2013 / p. 518 - 523 <https://doi.org/10.3182/20130904-3-FR-2041.00080> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Model based control of a water tank system**

**Belikov, Juri; Petlenkov, Eduard** Proceedings of the 19th IFAC World Congress, 2014 : Cape Town, South Africa, 24-29 August 2014 2014 / p. 10838-10843 : ill <https://doi.org/10.3182/20140824-6-za-1003.00695> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Model order reduction of electrical machines with multiple inputs**

Farzam Far, Mehrnaz; **Belahcen, Anouar;** Rasilo, Paavo; Clenet, Stephane; Pierquin, Antoine IEEE transactions on industry applications 2017 / p. 3355-3360 : ill <https://doi.org/10.1109/TIA.2017.2681967> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Model predictive control for modeling human gait motions assisted by Vicon technology**

**Vu, Trieu Minh; Tamre, Mart;** Musalimov, Victor; Kovalenko, Pavel; Rubinshtein, Irina; Ovchinnikov, Ivan; Krcmarik, David; Moezzi, Reza Journal European des systemes automatises 2020 / p. 589-600 <https://doi.org/10.18280/jesa.530501> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Model predictive control of descriptor systems**

**Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard** IEEE Control Systems Letter 2024 / p. 2139 - 2144  
<https://doi.org/10.1109/LCSYS.2024.3448310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Model predictive control-based dual input split source inverter for PV applications**

Abu-Zaher, Mustafa; Aly, Mokhtar; Zhuo, Fang; Ahmed, Mostafa; Rodriguez, Jose; **Bakeer, Abualkasim Ahmed Ali;** Hassan, Alaaeldien IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 6 p <https://doi.org/10.1109/IECON55916.2024.10905950> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **A model-based adaptive control of turning maneuver for catamaran autonomous surface vessel**

**Astrov, Igor; Astrova, Irina** WSEAS Transactions on Systems and Control 2024 / p. 135-142  
<https://doi.org/10.37394/23203.2024.19.14> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **A model-based control of self-driving car trajectory for lanes change maneuver in a smart city**

**Astrov, Igor** WSEAS transactions on systems and control 2023 / art. 36, p. 346-353 : ill <https://doi.org/10.37394/23203.2023.18.36>  
[Journal metrics at Scopus](#) [Article at Scopus](#)

### **Modeling and simulations of 4H-SiC/6H-SiC/4H-SiC single quantum-well light emitting diode using diffusion bonding technique**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas** Micromachines 2021 / art. 1499 <https://doi.org/10.3390/mi12121499> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A modified dynamic model of single-sided linear induction motors considering longitudinal and transversal effects**  
**Heidari, Hamidreza; Rassölkin, Anton; Razzaghi, Arash; Vaimann, Toomas; Kallaste, Ants; Andriushchenko, Ekaterina; Belahcen, Anouar;** Lukichev, Dmitry Electronics 2021 / art. 933, 14 p. : ill <https://doi.org/10.3390/electronics10080933> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modified technique of parameter identification of a permanent magnet synchronous motor with PWM inverter in the presence of dead-time effect and measurement noise**

**Mamatov, Aleksandr; Lovlin, Sergey; Vaimann, Toomas; Rassölkin, Anton;** Vakulenko, Sergei; Abramian, Andrei Electronics 2019 / art. 1200, 19 p <https://doi.org/10.3390/electronics8101200> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Monitoring of the human motor functions rehabilitation by neural networks based system with Kinect sensor**

**Nõmm, Sven;** Buhhalko, Kirill 12th IFAC, IFIP, IFORS, IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems, 2013 : Las Vegas, United States of America : August 11-14 2013 : proceedings 2013 / p. 249-253  
<https://doi.org/10.3182/20130811-5-US-2037.00062> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **MOOCs in logistics – preliminary data on university curricula coverage**

**Niine, Tarvo;** Cantoni, Franca; Cordova, Miguel Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 1 2021 / p. 586-597 [https://doi.org/10.1007/978-3-030-68198-2\\_54](https://doi.org/10.1007/978-3-030-68198-2_54) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Motion control architecture of a 4-fin U-CAT AUV using DOF prioritization**

**Salumäe, Taavi;** Chemori, Ahmed; **Kruusmaa, Maarja** IROS 2016 : 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems : October 9-14, 2016, Daejeon Convention Center, Daejeon, Korea 2016 / p. 1321-1327 : ill  
<https://doi.org/10.1109/IROS.2016.7759218> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **MPPT and GMPPT Implementation for Buck-Boost Mode Control of quasi-Z-Source Inverter**

**Husev, Oleksandr; Vinnikov, Dmitri;** Roncero-Clemente, Carlos; Blaabjerg, Frede; Strzelecki, Ryszard IEEE transactions on industrial electronics 2022 / p. 11348 - 11358 <https://doi.org/10.1109/TIE.2021.3125658> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Multiphase quasi-z-source DC-DC converters for residential distributed generation systems**

**Chub, Andrii; Vinnikov, Dmitri; Liivik, Elizaveta; Jalakas, Tanel** IEEE transactions on industrial electronics 2018 / p. 8361-8371 : ill <https://doi.org/10.1109/TIE.2018.2801860> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Neuro-fuzzy approach for fault prediction of mechanical bearing faults using vibration analysis**

**Shirokova, Veroonika; Kudelina, Karolina; Raja, Hadi Ashraf; Rjabtšikov, Viktor; Baraškova, Tatjana; Nutonen, Karle** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / p. 1-6 <https://doi.org/10.1109/IECON55916.2024.10905990> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **New high-gain non-inverting buck-boost converter**

**Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / p. 1-6 : ill <https://doi.org/10.1109/IECON48115.2021.9590003> [Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **New high-gain transformerless DC/DC boost converter system**

**Ahmed, Hassan Yousif; Abdelrahim Abdelghafour, Omar Mohamed;** Ali, Ziad M. Electronics 2022 / art. 734  
<https://doi.org/10.3390/electronics11050734> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A new modulated finite control set-model predictive control of quasi-Z-source inverter for PMSM drives**

**Ahmed, Abdelsalam A.; Bakeer, Abualkasim Ahmed Ali;** Alhelou, Hassan Haes; Siano, Pierluigi; Mossa, Mahmoud A. Electronics (Switzerland) 2021 / art. 2814 <https://doi.org/10.3390/electronics10222814> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New shoot-through control methods for qZSI-based DC/DC converters**

**Roasto, Indrek; Vinnikov, Dmitri; Zakis, Janis; Husev, Oleksandr** IEEE transactions on industrial informatics 2013 / p. 640-647 : ill <https://doi.org/10.1109/TII.2012.2224353> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)



### **A new single-phase flying inductor-based common grounded converter for dual-purpose application**

**Husev, Oleksandr; Vosoughi Kurdkandi, Naser;** Marangalu, Milad Ghavipanjeh; **Vinnikov, Dmitri;** Hosseini, Seyed Hossein  
IEEE transactions on industrial electronics 2023 / p. 7913-7923 <https://doi.org/10.1109/TIE.2022.3215832> [Journal metrics at Scopus](#)  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **NLControl - a mathematica package for nonlinear control systems**

**Kotta, Ülle; Tönso, Maris** IFAC-PapersOnLine 2017 / p. 681-686 <https://doi.org/10.1016/j.ifacol.2017.08.122> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Nonlinear dynamics in PEH for enhanced power output and vibration suppression in metastructures**

**Alimohammadi, Hossein; Vassiljeva, Kristina;** HosseinNia Kani, Seyed Hassan; **Petlenkov, Eduard** Nonlinear Dynamics 2024 / p. 12941 - 12963 <https://doi.org/10.1007/s11071-024-09739-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)  
[Article at WOS](#)

### **Nonlinear orientation controller for a compliant robotic fish based on asymmetric actuation**

**Meurer, Christian; Simha, Ashutosh; Kotta, Ülle; Kruusmaa, Maarja** 2019 International Conference on Robotics and Automation : ICRA 2019, Palais des Congres de Montreal, Canada, 20-24 May, 2019 2019 / Art. 8793892 ; p. 4688-4694  
<https://doi.org/10.1109/ICRA.2019.8793892> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **A note on observability of nonlinear discrete-time systems**

**Kaldmäe, Arvo; Kotta, Ülle** 2023 62nd IEEE Conference on Decision and Control (CDC), Singapore, 13-15 December 2023 2023 / p. 7483-7488 <https://doi.org/10.1109/CDC49753.2023.10383709> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Novel concept of solar converter with universal applicability for DC and AC microgrids**

**Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri;** Roncero-Clemente, Carlos; Kouro, Samir IEEE transactions on industrial electronics 2022 / p. 4329-4341 : ill <https://doi.org/10.1109/TIE.2021.3086436> [Journal metrics at Scopus](#) [Article at Scopus](#)  
[Journal metrics at WOS](#) [Article at WOS](#)

### **A novel flying inductor based grid-connected inverter with buck-boost ability**

**Vosoughi Kurdkandi, Naser; Husev, Oleksandr; Rahimpour, Saeed;** Roncero-Clemente, Carlos; **Matiushkin, Oleksandr; Vinnikov, Dmitri** IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / 6 p  
<https://doi.org/10.1109/IECON49645.2022.9968954> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Novel interestingness measures for mining significant association rules from imbalanced data**

Abdellatif, Safa; Ben Hassine, Mohamed Ali; **Ben Yahia, Sadok** Web, Artificial Intelligence and Network Applications :Proceedings of the Workshops of the 33rd International Conference on Advanced Information Networking and Applications (WAINA-2019) 2019  
[https://doi.org/10.1007/978-3-030-15035-8\\_16](https://doi.org/10.1007/978-3-030-15035-8_16) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Novel isolated power conditioning unit for micro wind turbine applications**

**Chub, Andrii; Husev, Oleksandr; Blinov, Andrei; Vinnikov, Dmitri** IEEE transactions on industrial electronics 2017 / p. 5984-5993 : ill <https://doi.org/10.1109/TIE.2016.2645890> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A novel renewable powered stand-alone electric vehicle parking-lot model**

Jawad, Muhammad; Asghar, Hira; Arshad, Jehangir; Javed, Abbas; Qureshi, Muhammad Bilal; Ali, Sahibzada Muhammad; **Shabbir, Noman; Rassölkin, Anton** Sustainable energy, grids and networks 2023 / art. 100992, 14 p. : ill  
<https://doi.org/10.1016/j.segan.2022.100992> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A numerical study for plant-independent evaluation of fractional-order PID controller performance**

Alagoz, Baris Baykant; **Tepljakov, Aleksei;** Yeroglu, Celaeddin; Gonzalez, Emmanuel A.; Hossein Nia, S. Hassan; **Petlenkov, Eduard** IFAC-PapersOnLine 2018 / p. 539-544 : ill <https://doi.org/10.1016/j.ifacol.2018.06.151> [Conference proceedings at Scopus](#)  
[Article at Scopus](#) [Article at WOS](#)

### **Object segmentation for autonomous driving using iseAuto data**

**Gu, Junyi; Bellone, Mauro; Sell, Raivo;** Lind, Artjom Electronics (Switzerland) 2022 / Art. 1119  
<https://doi.org/10.3390/electronics11071119> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Observation and stabilisation of coupled timelfractional reaction–advection–diffusion systems with spatiallylvarying coefficients**

**Chen, Juan; Tepljakov, Aleksei; Petlenkov, Eduard** IET control theory and applications 2020 / p. 3128–3138  
<https://doi.org/10.1049/iet-cta.2020.0520> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Observer-based detection and identification of sensor attacks in networked CPSs**

Chowdhury, Nilanjan Roy; **Belikov, Juri;** Baimel, Dmitry; Levron, Yoash Automatica 2020 / art. 109166, 13 p  
<https://doi.org/10.1016/j.automatica.2020.109166> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Occupational qualification standard for truck drivers as a risk management tool in road transportation of dangerous goods**

Janno, Jelizaveta; Koppel, Ott Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Vol. 2 2021 / p. 277-288 [https://doi.org/10.1007/978-3-030-68201-9\\_29](https://doi.org/10.1007/978-3-030-68201-9_29) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## **On accessibility conditions for state space nonlinear control systems on homogeneous time scales**

Bartosiewicz, Zbigniew; Kotta, Ülle; Mullari, Tanel; Tönso, Maris; Wyrwas, Małgorzata Systems & control letters 2016 / p. 8-13 <https://doi.org/10.1016/j.sysconle.2016.09.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **On finding model smells based on code smells**

Eessaar, Erki; Käosaar, Ege Software Engineering and Algorithms in Intelligent Systems : Proceedings of 7th Computer Science On-line Conference 2018, Vol. 1 2019 / p. 269-281 [https://doi.org/10.1007/978-3-319-91186-1\\_28](https://doi.org/10.1007/978-3-319-91186-1_28) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## **On flatness of discrete-time nonlinear systems**

Kaldmäe, Arvo; Kotta, Ülle 9th IFAC Symposium on Nonlinear Control Systems 2013 : Toulouse, France, 4 - 6 September 2013 2013 / p. 588 - 593 <https://doi.org/10.3182/20130904-3-FR-2041.00017> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

## **On integrability of observable space for discrete-time analytic systems**

Kawano, Yu; Kotta, Ülle 2015 54th IEEE Conference on Decision and Control (CDC) : date: 15-18 Dec. 2015 2015 / p. 7137 - 7142 <https://doi.org/10.1109/CDC.2015.7403345> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

## **On integrability of observable space for discrete-time polynomial control systems**

Kawano, Yu; Kotta, Ülle IEEE transactions on automatic control 2015 / p. 1987-1991 <https://doi.org/10.1109/TAC.2014.2365685> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **On measuring confounding bias in mixed multidimensional data : case of coerced multiple linear regression adjustment**

Arakkal Peious, Sijo; Kaushik, Minakshi; Shah, Syed Attique; Sharma, Rahul; Suran, Shweta; Draheim, Dirk ICT for Intelligent Systems : proceedings of ICTIS 2024. Vol. 6 2024 / p. 329–342 [https://doi.org/10.1007/978-981-97-6684-0\\_27](https://doi.org/10.1007/978-981-97-6684-0_27) [Conference proceedings at Scopus](#) [Article at Scopus](#)

## **On requirements for event processing network models using business event modeling notation**

Koschel, Arne; Astrova, Irina; Kobert, Sebastian; Naumann, Jan; Ruhe, Tobias; Starodubtsev, Oleg Intelligent Computing : Proceedings of the 2018 Computing Conference. Volume 1 Intelligent Computing 2019 / p. 756-762 [https://doi.org/10.1007/978-3-030-01174-1\\_57](https://doi.org/10.1007/978-3-030-01174-1_57) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## **On robust stability of uncertain control systems with time delay : an approach based on the overlap of value sets**

Ghorbani, Majid; Tepļakov, Aleksei; Petlenkov, Eduard IEEE Transactions on Automatic Control 2024 / p. 6349 - 6356 <https://doi.org/10.1109/TAC.2024.3381912> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **On safety aspects of ammonia as marine fuel**

Finger, Georg; Prause, Gunnar Klaus RelStat-2023 : Reliability and Statistics in Transportation and Communication : selected papers 2024 / p. 57-65 [https://doi.org/10.1007/978-3-031-53598-7\\_5](https://doi.org/10.1007/978-3-031-53598-7_5) [Conference proceedings at Scopus](#) [Article at Scopus](#)

## **On stable cones of polynomials via reduced Routh parameters**

Nurges, Ülo; Belikov, Juri; Artemtšuk, Igor Kybernetika 2016 / p. 461-477 <https://doi.org/10.14736/kyb-2016-3-0461> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **On testing microservice systems**

Koschel, Arne; Astrova, Irina; Bartels, Mirco; Helmers, Mark; Lyko, Marcel Proceedings of the Future Technologies Conference (FTC) 2020 ; vol. 3 2021 / p. 597–609 [https://doi.org/10.1007/978-3-030-63092-8\\_40](https://doi.org/10.1007/978-3-030-63092-8_40) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

## **On the design of base tables in the SQL databases of some existing software**

Eessaar, Erki Software engineering perspectives in systems : proceedings of 11th Computer Science On-line Conference 2022, Vol. 1 2022 / p. 309-324 [https://doi.org/10.1007/978-3-031-09070-7\\_26](https://doi.org/10.1007/978-3-031-09070-7_26) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

## **On the finiteness of accessibility test for nonlinear discrete-time systems**

Sarafrazi, Mohammad Amin; Pawluszewicz, Ewa; Bartosiewicz, Zbigniew; Kotta, Ülle International journal of control 2021 / p. 2330-2336 <https://doi.org/10.1080/00207179.2019.1706102> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **On the legal and economic implications of tele-driving**

Hoffmann, Thomas; Prause, Gunnar Klaus Machines 2023 / art. 331, 16 p. : ill <https://doi.org/10.3390/machines11030331> [Journal](#)

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

### **On the naming of database objects in the SQL databases of some existing software**

**Eessaar, Erki** Software engineering research in system science : proceedings of 12th Computer Science On-line Conference 2023 2023 / p. 534 - 550 [https://doi.org/10.1007/978-3-031-35311-6\\_51](https://doi.org/10.1007/978-3-031-35311-6_51) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **On the regulatory framework for last-mile delivery robots**

**Hoffmann, Thomas; Prause, Gunnar Klaus** Machines 2018 / art. 33, 16 p <https://doi.org/10.3390/machines6030033> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **On the specific role of electronic document and record management systems in enterprise integration**

**Pappel, Ingrid; Butt, Sidra Azmat; Pappel, Ingmar; Draheim, Dirk** Proceedings of Fifth International Congress on Information and Communication Technology : ICICT 2020, London ; 2 2021 / p 37–51 [https://doi.org/10.1007/978-981-15-5859-7\\_3](https://doi.org/10.1007/978-981-15-5859-7_3) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **On the stopping criteria in nonlinear unknown input observability condition**

**Sarafrazi, Mohammad Amin; Kotta, Ülle; Bartosiewicz, Zbigniew** IEEE transactions on automatic control 2022 / p. 4733-4737 <https://doi.org/10.1109/TAC.2022.3160133> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **On-Desk Model-Based Study for Evaluating the Effect of Squeezing the Arteries in the Forearm on the Bioimpedance and Pressure of Blood**

**Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Lotamõis, Kristina; Märten, Olev** Journal of sensors 2023 / art. 5710835 <https://doi.org/10.1155/2023/5710835> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Open-source level 4 autonomous shuttle for last - mile mobility**

**Sell, Raivo; Malayjerdi, Mohsen; Pikner, Heiko; Razdan, Rahul; Malayjerdi, Ehsan; Bellone, Mauro** 2024 IEEE 29th International Conference on Emerging Technologies and Factory Automation (ETFA) 2024 / 6 p <https://doi.org/10.1109/ETFA61755.2024.10710975> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Operating wireless sensor nodes without energy storage : experimental results with transient computing**

**Ahmed, Faisal; Ahmed, Tauseef; Muhammad, Yar; Le Moullec, Yannick; Annus, Paul** Electronics 2016 / art. 89, p. 1-14 : ill <https://doi.org/10.3390/electronics5040089> [Journal metrics at scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Operation and design of series-resonant current-source full-bridge dc-dc converter**

**Verbytskyi, Ievgen; Blinov, Andrei; Vinnikov, Dmitri; Pefitsis, Dimosthenis** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society 2021 / 6 p <https://doi.org/10.1109/IECON48115.2021.9589548> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **The opinions of basic school students regarding the use of telepresence robots for teaching and learning**

**Leoste, Janika; Kangur, Katrin; Talisainen, Aleksei; Muoni, Karin; Marmor, Kristel; Budagov, Fuad; Strömberg-Järvis, Kadri; Rebane, Anne-Mari; Rossi, Matti** Robotics in education : proceedings of the RiE 2024 conference 2024 / p. 89-100 [https://doi.org/10.1007/978-3-031-67059-6\\_9](https://doi.org/10.1007/978-3-031-67059-6_9) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Optical detection methods for high-throughput fluorescent droplet microflow cytometry**

**Pärnamets, Kaiser; Pardy, Tamas; Koel, Ants; Rang, Toomas; Scheler, Ott; Le Moullec, Yannick; Afrin, Fariha** Micromachines 2021 / art. 345, 20 p. : ill <https://doi.org/10.3390/mi12030345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **An optimal control method for storage systems with ramp constraints, based on an on-going trimming process**

**Zargari, Noa; Ofir, Ron; Chowdhury, Nilanjan Roy; Belikov, Juri; Levron, Yoash** IEEE Transactions on Control Systems Technology 2023 / p. 493-496 <https://doi.org/10.1109/TCST.2022.3169906> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Optimal robust filter of uncertain fractional order systems : a penalized deterministic approach**

**Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard** IEEE Control Systems Letters 2023 / p. 1075 - 1080 <https://doi.org/10.1109/LCSYS.2022.3230773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Optimal scheduling of HVACs in islanded residential microgrids to reduce BESS size considering effect of discharge duration on voltage and capacity of battery cells**

**Sanjareh, Mehrdad Bagheri; Nazari, Mohammad Hassan; Gharehpetian, Gevork B.; Ahmadihangar, Roya; Rosin, Argo** Sustainable Energy, Grids and Networks 2021 / art. 100424 <https://doi.org/10.1016/j.segan.2020.100424> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Optimization and implementation of the proportional-resonant controller for grid-connected inverter with significant computation delay**

**Husev, Oleksandr; Roncero-Clemente, Carlos; Makovenko, Elena; Pires Pimentel, Sergio; Vinnikov, Dmitri; Martins, Joao**

IEEE transactions on industrial electronics 2020 / p. 1201 –1211 <https://doi.org/10.1109/TIE.2019.2898616> [Journal metrics at Scopus](#)  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Optimization of a 3D-printed permanent magnet coupling using genetic algorithm and Taguchi method**

**Andriushchenko, Ekaterina; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rassõlkin, Anton; Heidari, Hamidreza; Tiismus, Hans** Electronics 2021 / art. 494, 16 p. : ill <https://doi.org/10.3390/electronics10040494> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Optimized vibro-acoustic design of suspended glass panels**

**Aiello, Robert; Auriemma, Fabio** Structural and multidisciplinary optimization 2018 / p. 2253–2268 : ill <https://doi.org/10.1007/s00158-018-2014-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Optimizing size and economic feasibility assessment of photovoltaic and energy storage setup in residential applications**

**Nourollahi Hokmabad, Hossein; Husev, Oleksandr; Kurnitski, Jarek; Belikov, Juri** Sustainable energy, grids and networks 2024 / art. 101385, 15 p. : ill <https://doi.org/10.1016/j.segan.2024.101385> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **An overview and comprehensive comparative evaluation of constant-frequency voltage buck control methods for series resonant DC–DC converters**

**Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri; Bakeer, Abualkasim Ahmed Ali** IEEE Open Journal of the Industrial Electronics Society 2021 / p. 65 - 79 <https://doi.org/10.1109/OJIES.2020.3048003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **P3R – Partial power post regulator for DC buildings application**

**Carvalho, Edivan Laercio; Chub, Andrii; Blinov, Andrei; Rathore, Akshay Kumar; Vinnikov, Dmitri** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 6 p <https://doi.org/10.1109/IECON55916.2024.10905720> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Pair-programming with a telepresence robot**

**Leoste, Janika; Pöial, Jaanus; Marmor, Kristel; Fenyvesi, Kristof; Häkkinen, Päivi** Robotics in education : proceedings of the RIE 2023 conference 2023 / p. 143 - 154 [https://doi.org/10.1007/978-3-031-38454-7\\_13](https://doi.org/10.1007/978-3-031-38454-7_13) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Penalized least-squares method for LQR problem of singular systems**

**Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard** 62nd IEEE Conference on Decision and Control, CDC 2023, Singapore, 13-15 December 2023 2023 / p. 1251-1256 <https://doi.org/10.1109/CDC49753.2023.10383412> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Performance analysis of a flexible manufacturing system (FMS)**

**Mahmood, Kashif; Karaulova, Tatjana; Otto, Tauno; Ševtšenko, Eduard** Procedia CIRP 2017 / p. 424-429 : ill <https://doi.org/10.1016/j.procir.2017.03.123> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Performance benchmarking of NewSQL databases with Yahoo cloud serving benchmark**

**Astrova, Irina; Koschel, Arne; Wellermann, Nils; Klostermeyer, Philip** Proceedings of the Future Technologies Conference (FTC) 2020 ; vol. 2 2021 / p. 271-281 [https://doi.org/10.1007/978-3-030-63089-8\\_17](https://doi.org/10.1007/978-3-030-63089-8_17) [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **A Performance evaluation concept for production systems in an SME network**

**Mahmood, Kashif; Lanz, Minna; Toivonen, Ville; Otto, Tauno** Procedia CIRP 2018 / p. 603-608 : ill <https://doi.org/10.1016/j.procir.2018.03.182> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Performance evaluation of step-up/down partial power converters based on current-fed DC-DC topologies**

**Yadav, Neelesh; Hassanpour, Naser; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri; Galkin, Ilya; Abdelrahim Abdelghafour, Omar Mohamed** IEEE transactions on industry applications 2024 / p. 7111-7124 : ill <https://doi.org/10.1109/TIA.2024.3413050> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Performance evaluation of the universal photovoltaic string converter during the operation in DC microgrid environment**

**Matiushkin, Oleksandr; Vinnikov, Dmitri; Husev, Oleksandr** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-6 : ill <https://doi.org/10.1109/IECON48115.2021.9589473> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Performance of a distributed apriori algorithm using the serverless functions of the Apollo framework**

**Shahin, Mahtab; Shah, Syed Attique; Sharma, Rahul; Ghasempouri, Tara; Poveda, Juan Aznar; Fahringer, Thomas; Draheim, Dirk** Machine Learning Methods in Systems : proceedings of 13th Computer Science On-line Conference 2024 2024 / 12 p <https://link.springer.com/book/9783031705946> [https://doi.org/10.1007/978-3-031-70595-3\\_37](https://doi.org/10.1007/978-3-031-70595-3_37) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)



### **Photovoltaic module and submodule level power electronics and control**

Spagnuolo, Giovanni; Kouro, Samir; **Vinnikov, Dmitri** IEEE Transactions on Industrial Electronics 2019 / p. 3856 - 3859

<https://doi.org/10.1109/TIE.2018.2883187> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **PLM maturity model development and implementation in SME**

**Paavel, Marko; Karjust, Kristo; Majak, Jüri** Procedia CIRP 2017 / p. 651-657 <https://doi.org/10.1016/j.procir.2017.03.144> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **PPCSA: Partial Participation-Based Compressed and Secure Aggregation in Federated Learning**

Moustafa, Ahmed; Asad, Muhammad; Shaukat, Saima; **Norta, Alexander** Advanced Information Networking and Applications : Proceedings of the 35th International Conference on Advanced Information Networking and Applications (AINA-2021), Volume 2 2021 / p. 345–357 [https://doi.org/10.1007/978-3-030-75075-6\\_28](https://doi.org/10.1007/978-3-030-75075-6_28) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Practical path planning techniques in overtaking for autonomous shuttles**

**Malayjerdi, Ehsan; Sell, Raivo; Malayjerdi, Mohsen; Udal, Andres; Bellone, Mauro** Journal of field robotics 2022 / p. 410-425 <https://doi.org/10.1002/rob.22057> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Predicting first-year computer science students drop-out with machine learning methods: A case study**

**Maksimova, Natalja; Pentel, Avar; Dunajeva, Olga** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 719-726 [https://doi.org/10.1007/978-3-030-68201-9\\_70](https://doi.org/10.1007/978-3-030-68201-9_70) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Predicting students' behavior during an e-learning course using data mining**

**Umbleja, Kadri; Ichino, Manabu** Interactive Collaborative Learning : proceedings of the 19th ICL Conference. Volume 2 2017 / p. 175-189 [https://doi.org/10.1007/978-3-319-50340-0\\_14](https://doi.org/10.1007/978-3-319-50340-0_14) [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Preface**

Jallouli, Rim; Tobji, Mohamed Anis Bach; Mcheick, Hamid; **Piho, Gunnar** Digital Economy. Emerging Technologies and Business Innovation : 6th International Conference on Digital Economy, ICDEc 2021, Tallinn, Estonia, July 15–17, 2021 : proceedings 2021 / p. v–vi <https://link.springer.com/content/pdf/bfm:978-3-030-92909-1/1> [Collection metrics at Scopus](#) [Article at Scopus](#)

### **Preface**

Shkarlet, Serhiy; Morozov, Anatoliy; Palagin, Alexander; **Vinnikov, Dmitri**; Stoianov, Nikolai; Zhelezniak, Mark; Kazymyr, Volodymyr Mathematical Modeling and Simulation of Systems : Selected Papers of 16th International Scientific-practical Conference, MODS, 2021 June 28–July 01, Chernihiv, Ukraine 2022 / p. ix-x <https://doi.org/10.1051/mmmp/2018041> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Preface**

Auer, Michael E.; **Rüütman, Tiia** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020), Volume 1 (2021) 2021 / p. v-vii <https://link.springer.com/book/10.1007/978-3-030-68198-2> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Preface**

Auer, Michael E.; **Rüütman, Tiia** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020), Volume 2 2021 / p. v-vii <https://link.springer.com/book/10.1007/978-3-030-68201-9> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Preface**

Auer, Michael E.; **Rüütman, Tiia**; Pachatz, Wolfgang Learning in the age of digital and green transition: proceedings of the 25th international conference on interactive collaborative learning (ICL2022), Volume 2 2023 / p. v-ix <https://link.springer.com/book/10.1007/978-3-031-26190-9> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Preface**

Auer, Michael E.; **Rüütman, Tiia**; Pachatz, Wolfgang Learning in the Age of Digital and Green Transition Proceedings of the 25th International Conference on Interactive Collaborative Learning (ICL2022), Volume 1 2023 / p. vi-ix <https://link.springer.com/book/10.1007/978-3-031-26876-2> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Preface**

Shkarlet, Serhiy; Palagin, Alexander; Morozov, Anatoliy; **Vinnikov, Dmitri**; Stoianov, Nikolai; Zhelezniak, Mark; Kazymyr, Volodymyr Mathematical Modeling and Simulation of Systems : Selected Papers of 17th International Conference, MODS, November 14-16, 2022, Chernihiv, Ukraine 2023 / p. v-vi <https://link.springer.com/book/10.1007/978-3-031-30251-0> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Preface**

Kazymyr, Volodymyr; Morozov, Anatoliy; Palagin, Alexander; Shkarlet, Serhiy; Stoianov, Nikolai; **Vinnikov, Dmitri**; Zhelezniak, Mark Mathematical Modeling and Simulation of Systems : Selected Papers of 18th International Conference, MODS, November 13-15,

2023, Chernihiv, Ukraine 2024 / p. v-vi <https://link.springer.com/book/10.1007/978-3-031-67348-1> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Preface of the special issue on advances in data-driven engineering**

**Ben Yahia, Sadok;** Attiogbé, Christian International Journal of General Systems 2023 / p. 203-205

<https://doi.org/10.1080/03081079.2023.2204251> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Preparing Master's degree students for doctoral studies - a lecturer's perspective : results of a case study of problem-based learning (PBL)**

**Nutt, Nele;** Karu, Katrin; **Raamets, Jane** Towards a Hybrid, Flexible and Socially Engaged Higher Education : Proceedings of the 26th International Conference on Interactive Collaborative Learning (ICL2023), Volume 2 2024 / p. 355-365 [https://doi.org/10.1007/978-3-031-52667-1\\_34](https://doi.org/10.1007/978-3-031-52667-1_34) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**The Private Sector's Role in e-Government from a Legal Perspective**

**Löhmus, Kaisa;** Nyman-Metcalf, Katrin Merike; **Ahmed, Rozha Kamal;** Pappel, Ingrid; **Draheim, Dirk** Fourth International Congress on Information and Communication Technology : ICICT 2019, London, Volume 2 2020 / p. 283-298

[https://doi.org/10.1007/978-981-32-9343-4\\_22](https://doi.org/10.1007/978-981-32-9343-4_22) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Problem-based learning contribution to Master's Studies in logistics and supply chain management**

**Janno, Jelizaveta;** **Körbe Kaare, Kati** Mobility for Smart Cities and Regional Development - Challenges for Higher Education : proceedings of the 24th International Conference on Interactive Collaborative Learning (ICL2021), Vol. 1 2022 / p. 492-503

[https://doi.org/10.1007/978-3-030-93904-5\\_49](https://doi.org/10.1007/978-3-030-93904-5_49) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Professional skills for developing supportive learning environments**

**Rütmann, Tiia;** **Läänemets, Urve;** Kiilu, Kristi; Kalamees-Ruubel, Katrin Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 473-484

[https://doi.org/10.1007/978-3-030-68201-9\\_8](https://doi.org/10.1007/978-3-030-68201-9_8) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**The prospect of inclusive pedagogy in efficiency-centric governance paradigm : business and entrepreneurship teachers' perspectives**

**Niine, Tarvo;** **Küttim, Merle;** **Semm, Kristin** Learning in the Age of Digital and Green Transition : Proceedings of the 25th

International Conference on Interactive Collaborative Learning (ICL2022), Volume 2 2023 / p. 684-694 [https://doi.org/10.1007/978-3-031-26190-9\\_72](https://doi.org/10.1007/978-3-031-26190-9_72) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**A public, blockchain-based distributed smart-contract platform enabling mobile lite wallets using a proof-of-stake consensus algorithm**

**Norta, Alexander;** Dai, Patrick; Mahi, Neil; Earls, Jordan Business Information Systems Workshops : BIS 2018 : International Workshops, Berlin, Germany, July 18-20, 2018 : Revised Papers 2019 / p. 368-380 [https://doi.org/10.1007/978-3-030-04849-5\\_33](https://doi.org/10.1007/978-3-030-04849-5_33)

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

**Quasi-Z source T-type power converter for PV based commercial and industrial nanogrids with active functions strategy**

Barrero-Gonzalez, Fermin; Roncero-Clemente, Carlos; Milanes-Montero, Maria Isabel; Gonzalez-Romera, Eva; Romero-Cadaval, Enrique; **Husev, Oleksandr** Electronics 2020 / art. 1233, 18 p. : ill <https://doi.org/10.3390/electronics9081233> [Journal metrics at Scopus](#)

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

**Rate-latency optimization for NB-IoT with adaptive resource unit configuration in uplink transmission**

Elgarhy, Osama Mohamed Mostafa; **Reggiani, Luca;** **Malik, Hassan;** **Alam, Muhammad Mahtab;** Imran, Muhammad Ali IEEE

Systems Journal 2021 / p. 265 - 276 <https://doi.org/10.1109/JSYST.2020.2991073> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Realisation of linear time-varying systems**

**Kotta, Ülle;** **Tönso, Maris** International journal of control 2017 / p. 1951-1956 <https://doi.org/10.1080/00207179.2016.1230891> [Journal metrics at Scopus](#)

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

**Realization of nonlinear input-output equations in controller canonical form**

**Kaldmäe, Arvo;** **Kotta, Ülle** Kybernetika 2018 / p. 736-747 <https://doi.org/10.14736/kyb-2018-4-0736> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

**Realization of nonlinear MIMO system on homogeneous time scales**

**Belikov, Juri;** **Kotta, Ülle;** **Tönso, Maris** European journal of control 2015 / p. 48-54 <https://doi.org/10.1016/j.ejcon.2015.01.006> [Journal metrics at Scopus](#)

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

**Realization of nonlinear time-delay input-output equations**

**Kaldmäe, Arvo;** **Kotta, Ülle;** **Tönso, Maris** IEEE Control Systems Letters 2018 / p. 369-374

<https://doi.org/10.1109/LCSYS.2018.2838456> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Realization of time-delay systems**

**Kaldmäe, Arvo; Kotta, Ülle** Automatica 2018 / p. 317-320 <https://doi.org/10.1016/j.automatica.2018.01.001> [Journal metrics at Scopus](#)  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Realizations in feedforward forms of nonlinear input-output equations with time-delays**

**Kaldmäe, Arvo; Kawano, Yu; Kotta, Ülle** International journal of robust and nonlinear control 2020 / p. 7560-7573  
<https://doi.org/10.1002/rnc.5194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Real-time multi-modal active vision for object detection on UAVs equipped with limited field of view LiDAR and camera**

**Shi, Chuanbeibei; Lai, Ganghua; Yu, Yushu; Bellone, Mauro;** Lippiello, Vincezo IEEE Robotics and Automation Letters 2023 / p. 6571 - 6578 <https://doi.org/10.1109/LRA.2023.3309575> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reduced basis finite element modeling of electrical machines with multiconductor windings**

**Lehikoinen, Antti; Arkkio, Antero; Belahcen, Anouar** IEEE transactions on industry applications 2017 / p. 4252-4259 : ill  
<https://doi.org/10.1109/TIA.2017.2696509> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reducibility condition for nonlinear discrete-time systems : behavioral approach**

**Bartosiewicz, Zbigniew; Kotta, Ülle;** Pawłuszewicz, Ewa; **Tönso, Maris;** Wyrwas, Małgorzata Control and Cybernetics 2013 / p. 329-346 <https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=d858f3fd9c2acd98e41f35a0bed4c0cb9efab59c> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Regional capabilities to tackle climate change : setting a research agenda for big data driven tools**

**Bzhalava, Levan;** Makkonen, Teemu Networks, Markets & People : Communities, Institutions and Enterprises Towards Post-humanism Epistemologies and AI Challenges, Volume 5 2024 / p. 30-37 [https://doi.org/10.1007/978-3-031-74704-5\\_4](https://doi.org/10.1007/978-3-031-74704-5_4) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Reinforcement Learning-based Energy Management Strategy for Flexible Hybrid ac/dc Microgrid**

**Gutiérrez-Escalona, Javier; Roncero-Clemente, Carlos; Husev, Oleksandr; Matiushkin, Oleksandr;** Barrero-González, Fermín; González-Romera, Eva IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2025 / 6 p  
<https://doi.org/10.1109/IECON55916.2024.10905501> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Reinforcing innovation and competitiveness of SMEs by new maritime clustering initiatives in South Baltic Sea region**

**Meyer, Christopher; Philipp, Robert;** Gerlitz, Laima Reliability and statistics in transportation and communication : Selected Papers from the 20th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'20, 14-17 October 2020, Riga, Latvia 2021 / p. 633-648 [https://doi.org/10.1007/978-3-030-68476-1\\_59](https://doi.org/10.1007/978-3-030-68476-1_59) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Relations between modules associated to input-output nonlinear equations with delays and their realizations**

**Bartosiewicz, Zbigniew; Kaldmäe, Arvo; Kotta, Ülle;** Wyrwas, Małgorzata 62nd IEEE Conference on Decision and Control, CDC 2023, Singapore, 13-15 December 2023 2023 / p. 644-650 <https://doi.org/10.1109/CDC49753.2023.10383927> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Relaxing realizability conditions for discrete-time nonlinear systems**

**Kotta, Ülle;** Schlahter, Kurt; **Tönso, Maris** Automatica 2015 / p. 67-71 <https://doi.org/10.1016/j.automatica.2015.05.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reliability study of input side capacitors in impedance-source PV microconverters**

**Liivik, Elizaveta; Vinnikov, Dmitri; Chub, Andrii;** Shen, Yanfeng IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5026-5032 : ill <https://doi.org/10.1109/IECON.2019.8927173> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Reliability-critical computation offloading in UAV swarms**

**Rahbari, Dadmehr; Ahmed, Faisal; Jenihhin, Maksim; Alam, Muhammad Mahtab; Le Moullec, Yannick** IEEE Systems Journal 2024 / p. 1871-1882 <https://doi.org/10.1109/JSYST.2024.3432449> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Remote technical labs : an innovative and scalable component for university cybersecurity program admission**

**Maennel, Kaie; Kivimägi, Kristian; Maennel, Olaf Manuel; Sütterlin, Stefan; Ernits, Margus** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 521-533 [https://doi.org/10.1007/978-3-030-68201-9\\_51](https://doi.org/10.1007/978-3-030-68201-9_51) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Representation of an object as a semiotic sign in engineering**

**Lille, Harri; Ruus, Aime** ICGG 2018 - proceedings of the 18th International Conference on Geometry and Graphics : 40th Anniversary-Milan, Italy, August 3-7, 2018 2019 / p. 2201-2204 [https://doi.org/10.1007/978-3-319-95588-9\\_202](https://doi.org/10.1007/978-3-319-95588-9_202) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Resiliency oriented control of a smart microgrid with photovoltaic modules**

Mishra, Sambheet; Peterson, Kristijan; Hilimon, Tauno; Šuvalova, Jelena; Wen, Fushuan; Palu, Ivo Global Energy Interconnection 2021 / p. 441-452 <https://doi.org/10.1016/j.gloe.2021.11.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Response surface method for optimization of synchronous reluctance motor rotor**

Orlova, Svetlana; Auzins, Janis; Pugachov, Vladislav; Rassõlkin, Anton; Vaimann, Toomas Machines 2022 / art. 897 <https://doi.org/10.3390/machines10100897> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reverse solar envelope method. A new building form-finding method that can take regulatory frameworks into account**

De Luca, Francesco; Dogan, Timur; Sepulveda Luque, Abel Automation in construction 2021 / art. 103518, 18 p. : ill <https://doi.org/10.1016/j.autcon.2020.103518> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Reversed search maximum clique algorithm based on recoloring**

Kumlander, Deniss; Porošin, Aleksandr WCGO 2019: Optimization of Complex Systems: Theory, Models, Algorithms and Applications 2020 / p. 458-467 [https://doi.org/10.1007/978-3-030-21803-4\\_46](https://doi.org/10.1007/978-3-030-21803-4_46) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Review of design freedom offered by additive manufacturing for performance enhancement of electrical machine**

Ahmad, Zahoor; Kallaste, Ants; Vaimann, Toomas; Naseer, Muhammad Usman; Hussain, Shahid; Rassõlkin, Anton IEEE Open Journal of the Industrial Electronics Society 2024 / p. 1300-1323 <https://doi.org/10.1109/OJIES.2024.3509547> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Review of the extraction of key metallic values from black shales in relation to their geological and mineralogical properties**

Vind, Johannes; Tamm, Kadriann Minerals Engineering 2021 / art. 107271 <https://doi.org/10.1016/j.mineng.2021.107271> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Revisiting the LQR problem of singular systems**

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard IEEE/CAA Journal of Automatica Sinica 2024 / p. 2236-2252 : ill <https://doi.org/10.1109/JAS.2024.124665> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A Riemannian geometric approach to output tracking for nonholonomic systems**

Simha, Ashutosh; Raha, Soumyendu IFAC-PapersOnLine 2019 / p. 144-149 <https://doi.org/10.1016/j.ifacol.2019.11.769> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Ring-oscillator with multiple transconductors for linear analog-to-digital conversion**

Alvero-Gonzalez, Leidy Mabel; Medina, Victor; Kampus, Vahur; Paton, Susana; Hernandez, Luis; Gutierrez, Eric Electronics (Switzerland) 2021 / art. 1408 <https://doi.org/10.3390/electronics10121408> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Risk assessment of logistics hub development along green transport corridors : the case of Paldiski port**

Kitzmann, Harald; Falko, Sergei; Prause, Gunnar Klaus Reliability and statistics in transportation and communication : Selected Papers from the 19th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'19, 16-19 October 2019, Riga, Latvia 2020 / p. 341-350 [https://doi.org/10.1007/978-3-030-44610-9\\_34](https://doi.org/10.1007/978-3-030-44610-9_34) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **A Roadside unit placement scheme for Vehicular Ad-hoc Networks**

Ben Chaabene, Seif; Yeferny, Taoufik; Ben Yahia, Sadok Advanced Information Networking and Applications : proceedings of the 33rd International Conference on Advanced Information Networking and Applications (AINA-2019) 2020 / p. 619-630 [https://doi.org/10.1007/978-3-030-15032-7\\_52](https://doi.org/10.1007/978-3-030-15032-7_52) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Robust design optimization of electrical machines and devices : editorial**

Orosz, Tamas; Panek, David; Rassõlkin, Anton; Kuczmann, Miklos Electronics 2022 / art. 1427 <https://doi.org/10.3390/electronics11091427> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Robust FOPID stabilization for Smith Predictor structures**

Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard 61st IEEE Conference on Decision and Control, CDC 2022, Cancun, 6 December - 9 December 2022, proceedings 2022 / p. 1696-1701 <https://doi.org/10.1109/CDC51059.2022.9993283> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Robust fractional order singular Kalman filter**

Nosrati, Komeil; Belikov, Juri; Tepljakov, Aleksei; Petlenkov, Eduard International journal of robust and nonlinear control 2024 / p. 602-627 : ill <https://doi.org/10.1002/rnc.6990> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Robust stabilization criteria of a general form of fractional-order controllers for interval fractional-order plants with complex uncertain parameters**

Ghorbani, Majid ISA transactions 2022 / p. 140-151 : ill <https://doi.org/10.1016/j.isatra.2022.02.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)



**Robust stabilization of interval fractional-order plants with an interval time delay by fractional-order proportional integral derivative controllers**

**Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard** IET Control Theory and Applications 2024 / p. 614-625

<https://doi.org/10.1049/cth2.12594> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Robust stability analysis of interval fractional-order plants with interval time delay and general form of fractional-order controllers**

**Ghorbani, Majid; Tavakoli-Kakhki, Mahsan; Tepljakov, Aleksei; Petlenkov, Eduard; Farnam, Arash; Crevecoeur, Guillaume** IEEE

Control Systems Letters 2022 / p. 1268-1273 <https://doi.org/10.1109/LCSYS.2021.3091525> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

**Robust stability analysis of Smith predictor based interval fractional-order control systems: a case study in level control process**

**Ghorbani, Majid; Tavakoli-Kakhki, Mahsan; Tepljakov, Aleksei; Petlenkov, Eduard** IEEE/CAA Journal of Automatica Sinica 2023

/ p. 762-780 <https://doi.org/10.1109/JAS.2022.105986> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at](#)

[WOS](#)

**Robust stability testing function for a complex interval family of fractional-order polynomials**

**Ghorbani, Majid; Rezaei, Hossein; Tepljakov, Aleksei; Petlenkov, Eduard** Journal of the Franklin Institute 2022 / p. 10038 - 10057

<https://doi.org/10.1016/j.jfranklin.2022.09.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Russian river shipping : evolution and perspectives**

**Molotov, Mikhail; Philipp, Robert; Prause, Gunnar Klaus** Reliability and Statistics in Transportation and Communication : selected papers from the 21st International Multidisciplinary Conference on Reliability and Statistics in Transportation and Communication, RelStat2021, 14-15 October 2021, Riga, Latvia 2022 / p. 259–269

[https://doi.org/10.1007/978-3-030-96196-1\\_23](https://doi.org/10.1007/978-3-030-96196-1_23) [Conference](#)

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

**Safety system assessment case study of automated vehicle shuttle**

**Pikner, Heiko; Sell, Raivo; Majak, Jüri; Karjust, Kristo** Electronics (Switzerland) 2022 / art. 1162

<https://doi.org/10.3390/electronics11071162> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Scalable and imbalance-resistant machine learning models for anti-money laundering : a two-layered approach**

**Tertychnyi, Pavlo; Slobozhan, Ivan; Ollikainen, Madis; Dumas, Marlon** Enterprise Applications, Markets and Services in the Finance Industry : 10th International Workshop, FinanceCom 2020, Helsinki, Finland, August 18, 2020, Revised Selected Papers 2020 / p. 43-

58 [https://doi.org/10.1007/978-3-030-64466-6\\_3](https://doi.org/10.1007/978-3-030-64466-6_3) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**A scalable knowledge graph embedding model for next point-of-interest recommendation in Tallinn city**

**Ounoughi, Chahinez; Mouakher, Amira; Sherzad, Muhammad Ibraheem; Ben Yahia, Sadok** Research Challenges in

Information Science : 15th International Conference, RCIS 2021, Limassol, Cyprus, May 11–14, 2021 : proceedings 2021 / p. 435–

451 [https://doi.org/10.1007/978-3-030-75018-3\\_29](https://doi.org/10.1007/978-3-030-75018-3_29) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**SCALLER: standard cell assembled and local layout effect-based ring oscillators**

**Aljafar, Muayad J.; UI Abideen, Zain; Peetermans, Adriaan; Gierlichs, Benedikt; Pagliarini, Samuel** IEEE Embedded Systems

Letters 2024 / p. 493 - 496 <https://doi.org/10.1109/LES.2024.3459730> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at](#)

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

**The scarcity and competence gaps of teaching logistics in top European business schools**

**Niine, Tarvo; Küttim, Merle; Nuus, Rasmus; Tuisk, Tarmo** Towards a Hybrid, Flexible and Socially Engaged Higher Education :

Proceedings of the 26th International Conference on Interactive Collaborative Learning (ICL2023), Volume 2 2024 / p. 270–277

[https://doi.org/10.1007/978-3-031-52667-1\\_27](https://doi.org/10.1007/978-3-031-52667-1_27) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Sec-IoT: A framework for secured decentralised IoT using blockchain-based technology**

**Khan, Muhidul Islam; Lawal, Isah A.** Proceedings of Fifth International Congress on Information and Communication Technology :

ICICT 2020, Vol. 1 2020 / p. 269-277 [https://doi.org/10.1007/978-981-15-5856-6\\_27](https://doi.org/10.1007/978-981-15-5856-6_27) [Article collection metrics at Scopus](#) [Article at](#)

[Scopus](#)

**Securing airline-turnaround processes using security risk-oriented patterns**

**Samarütel, Silver; Matulevičius, Raimundas; Norta, Alexander; Nõukas, Rein** The Practice of Enterprise Modeling : 9th IFIP WG

8.1. Working Conference, PoEM 2016, Skövde, Sweden, November 8-10, 2016 : proceedings 2016 / p. 209-224

[https://doi.org/10.1007/978-3-319-48393-1\\_15](https://doi.org/10.1007/978-3-319-48393-1_15) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Self-evaluation of pedagogical competencies of academic staff in the context of career management**

**Rüütman, Tiia; Lõhmus, Merle; Sell, Raivo; Stõun, Ija; Pihel, Mare** Teaching and Learning in a Digital World : proceedings of

the 20th International Conference on Interactive Collaborative Learning. Volume 2 2018 / p. 436-446

[https://link.springer.com/chapter/10.1007/978-3-319-73204-6\\_48](https://link.springer.com/chapter/10.1007/978-3-319-73204-6_48) [https://doi.org/10.1007/978-3-319-73204-6\\_48](https://doi.org/10.1007/978-3-319-73204-6_48) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Self-healing photovoltaic microconverter with zero redundancy and accurate low-cost fault detection**

**Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri** IEEE transactions on industrial electronics 2024 / p. 646-656

<https://doi.org/10.1109/TIE.2023.3250836> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sensitivity analysis for multi-objective optimization of switched reluctance motors**

**Andriushchenko, Ekaterina; Kallaste, Ants; Mohammadi, M. Hossain; Lowther, David Alister; Heidari, Hamidreza** Machines

2022 / art. 559, 16 p. : ill <https://doi.org/10.3390/machines10070559> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Series buck-boost partial power converter based on the push-pull converter**

**Abdelrahim Abdelghafour, Omar Mohamed; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri** IECON 2022 : 48th Annual Conference of the IEEE Industrial Electronics Society : 17-20 Oct. 2022 2022 / code. 184962

<https://doi.org/10.1109/IECON49645.2022.9968574> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Service design for trans-national smart supply chains**

Gerasimova, Vera; **Philipp, Robert; Prause, Gunnar Klaus** Reliability and statistics in transportation and communication : Selected Papers from the 20th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'20, 14-17 October 2020, Riga, Latvia 2021 / p. 377-388 [https://doi.org/10.1007/978-3-030-68476-1\\_35](https://doi.org/10.1007/978-3-030-68476-1_35) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Significant factors extraction : a combined logistic regression and apriori association rule mining approach**

**Shahin, Mahtab; Burtl, Markus; Heidari Iman, Mohammad Reza; Ghasempouri, Tara; Sharma, Rahul; Shah, Syed Attique;**

Draheim, Dirk Machine Learning Methods in Systems : proceedings of 13th Computer Science On-line Conference 2024 ; Vol. 4 2024 / p. 295-311 <https://link.springer.com/book/9783031705946> [https://doi.org/10.1007/978-3-031-70595-3\\_30](https://doi.org/10.1007/978-3-031-70595-3_30) [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Simulated influence of indoor climate and ventilation on schoolwork performance in Estonian manor schools**

**Kalamees, Targo; Väli, Alan; Kallavus, Urve; Kurik, Lembit; Alev, Üllar** International journal of ventilation 2015 / p. 153-164 : ill

<https://doi.org/10.1080/14733315.2015.11684077> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Simulation of real time electricity price based energy management system [Online resource]**

**Lebedev, Denis; Rosin, Argo; Kütt, Lauri** Proceedings of the IECON2016 - 42nd Annual Conference of the Industrial Electronics Society : Florence (Italy), October 24-27, 2016 2016 / p. 2106-2110 : ill <https://doi.org/10.1109/IECON.2016.7793991> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Simulation of RF noise propagation to relativistic electron beam properties in a linear accelerator**

**Maalberg, Andrei; Kuntzsch, Michael; Petlenkov, Eduard** IFAC-PapersOnLine 2020 / p. 348-354

<https://doi.org/10.1016/j.ifacol.2020.12.184> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Simulations of benzene and hydrogen-sulfide gas detector based on single-walled carbon nanotube over intrinsic 4H-SiC substrate**

**Rashid, Muhammad Haroon; Koel, Ants; Rang, Toomas; Ziko, Mehadi Hasan** Micromachines 2020 / art. 453, 13 p. : ill

<https://doi.org/10.3390/mi11050453> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Single-experiment observability decomposition of discrete-time analytic systems**

Kawano, Yu; **Kotta, Ülle** Systems & control letters 2016 / p. 193-199 <https://doi.org/10.1016/j.sysconle.2016.09.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Single-phase string solar qZS-based inverter: example of multi-objective optimization design**

**Husev, Oleksandr; Vinnikov, Dmitri; Roncero-Clemente, Carlos; Chub, Andrii; Romero-Cadaval, Enrique** IEEE transactions on industry applications 2021 / p. 3120-3130 : ill <https://doi.org/10.1109/TIA.2020.3034292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Single-stage single-phase current source inverter for standalone applications**

Sohail, Umer; **Blinov, Andrei; Østrem, Trond; Hoff, Bjarte; Carvalho, Edivan Laercio** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 6 p

<https://doi.org/10.1109/IECON55916.2024.10905718> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Single-switch galvanically isolated step-up DC-DC converter for residential photovoltaic applications [Online resource]**

**Vinnikov, Dmitri; Chub, Andrii; Liivik, Elizaveta** Proceedings of the IECON2016 - 42nd Annual Conference of the Industrial Electronics Society : Florence (Italy), October 24-27, 2016 2016 / p. 6578-6582 : ill <https://doi.org/10.1109/IECON.2016.7793776>

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

### **Small and medium-sized seaports on the digital track : tracing digitalisation across the South Baltic region by innovative auditing procedures**

**Philipp, Robert;** Gerlitz, Laima; Moldabekova, Aisulu Reliability and statistics in transportation and communication : Selected Papers from the 19th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'19, 16-19 October 2019, Riga, Latvia 2020 / p. 351-362 [https://doi.org/10.1007/978-3-030-44610-9\\_35](https://doi.org/10.1007/978-3-030-44610-9_35) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **Smart city and smart port concepts : a conceptualisation for digital small and medium-sized port-city innovation ecosystems**

**Meyer, Christopher;** Gerlitz, Laima; Prause, Gunnar Klaus RelStat-2023 : Reliability and Statistics in Transportation and Communication : selected papers 2024 / p. 41-53 [https://doi.org/10.1007/978-3-031-53598-7\\_4](https://doi.org/10.1007/978-3-031-53598-7_4) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Smart contracts and void declarations of intent**

**Hoffmann, Thomas** Advanced Information Systems Engineering Workshops : CAiSE 2019 International Workshops, Rome, Italy, June 3-7, 2019 : proceedings 2019 / p. 168-175 [https://doi.org/10.1007/978-3-030-20948-3\\_15](https://doi.org/10.1007/978-3-030-20948-3_15) [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Smart contracts for smart supply chains**

**Prause, Gunnar Klaus** IFAC-PapersOnLine 2019 / p. 2501-2506 <https://doi.org/10.1016/j.ifacol.2019.11.582> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Socio-Economic aspects of free public transport**

**Tuisk, Tarmo; Prause, Gunnar Klaus** Reliability and Statistics in Transportation and Communication : Selected Papers from the 18th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'18, 17-20 October 2018, Riga, Latvia 2019 / p. 3-13 [https://doi.org/10.1007/978-3-030-12450-2\\_1](https://doi.org/10.1007/978-3-030-12450-2_1) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Sociotechnical factors and Industry 4.0 : an integrative perspective for the adoption of smart manufacturing technologies**

Marcon, Érico; Soliman, Marlon; **Gerstlberger, Wolfgang Dieter;** Frank, Alejandro G. Journal of Manufacturing Technology Management 2022 / p. 259-289 : ill <https://doi.org/10.1108/JMTM-01-2021-0017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Soft fluidic actuator for locomotion in multi-phase environments**

**Gkliva, Roza; Kruusmaa, Maarja** IEEE robotics and automation letters 2022 / p. 10462-10469 <https://doi.org/10.1109/LRA.2022.3192204> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Soft-switching modulation method for full-bridge DC-AC HF-link inverter**

**Blinov, Andrei; Korkh, Oleksandr; Vinnikov, Dmitri;** Galkin, Ilja; Norrga, Staffan IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4417-4422 : ill <https://doi.org/10.1109/IECON.2019.8927186> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Solar optiverter - a novel hybrid approach to the photovoltaic module level power electronics**

**Vinnikov, Dmitri; Chub, Andrii;** Kosenko, Roman; **Korkh, Oleksandr** IEEE transactions on industrial electronics 2019 / p. 3869-3880 <https://doi.org/10.1109/TIE.2018.2850036> [Tehnikaülikooli seade muudab päikesepaneelid märgatavalt tootlikumaks](#) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Some Classes of Matrix Transformations between the Subsets of Maddox Spaces Defined by Speed**

**Aasma, Ants;** Natarajan, Pinnangudi N. WSEAS transactions on systems 2024 / p. 508-516 <https://doi.org/10.37394/23202.2024.23.52> [https://wseas.com/journals/systems/2024/b065102-034\(2024\).pdf](https://wseas.com/journals/systems/2024/b065102-034(2024).pdf) [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Stabilization and uncertainty analysis of a time-fractional reaction diffusion equation cascaded with a time-fractional hyperbolic partial differential equation**

Chen, Juan; Zhuang, Bo; **Tepljakov, Aleksei; Petlenkov, Eduard** The Asian Journal of Control 2022 / p. 2294-2310 <https://doi.org/10.1002/asjc.2637> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Stabilizing region of fractional-order proportional integral derivative controllers for interval delayed fractional-order plants**

**Ghorbani, Majid; Tepljakov, Aleksei; Petlenkov, Eduard** Asian Journal of Control 2023 / p. 1145 - 1155 <https://doi.org/10.1002/asjc.2894> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **State and output feedback boundary control of time fractional pde–fractional ode cascades with space-dependent diffusivity**

Chen, Juan; **Tepljakov, Aleksei; Petlenkov, Eduard;** Chen, Yangquan; Zhuang, Bo IET Control Theory and Applications 2020 / p. 3589 - 3600 <https://doi.org/10.1049/iet-cta.2019.1015> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **State coordinated voltage control in an active distribution network with on-load tap changers and photovoltaic systems**

**Singh, Praveen Prakash; Palu, Ivo** Global Energy Interconnection 2021 / 9 p. : ill <https://doi.org/10.1016/j.gloi.2021.05.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**State feedback linearization of nonlinear control systems on homogeneous time scales**

Bartosiewicz, Zbigniew; **Belikov, Juri; Kotta, Ülle**; Wyrwas, Małgorzata Nonlinear analysis: hybrid systems 2019 / p. 69-85 <https://doi.org/10.1016/j.nahs.2018.08.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**State of charge and health estimation of batteries for electric vehicles applications: key issues and challenges**

Singh, Pratap Samarendra; **Singh, Praveen Prakash**; Singh, Niwas Sri; **Tiwari, Prabhakar** Global Energy Interconnection 2021 / 13 p. : ill <https://doi.org/10.1016/j.gloi.2021.05.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Static state feedback linearization of nonlinear control systems on homogeneous time scales**

Bartosiewicz, Zbigniew; **Kotta, Ülle; Tönso, Maris**; Wyrwas, Małgorzata Mathematics of control, signals, and systems 2015 / p. 523-550 <https://doi.org/10.1007/s00498-015-0150-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**String diagram rewrite theory I : rewriting with Frobenius structure**

Bonchi, Filippo; Gadducci, Fabio; Kissinger, Aleks; **Sobocinski, Pawel Maria**; Zanasi, Fabio Journal of the ACM 2022 / art. 14 <https://doi.org/10.1145/3502719> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Structure preserving reduced attitude control of gyroscopes**

Raj, Nidhish; Colombo, Leonardo J.; **Simha, Ashutosh** Automatica 2021 / art. 109471, 7 p. : ill <https://doi.org/10.1016/j.automatica.2020.109471> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Survey of topology morphing control techniques for performance enhancement of galvanically isolated DC-DC converters**

**Sidorov, Vadim; Chub, Andrii; Vinnikov, Dmitri**; Peng, Fang Zheng IEEE Open Journal of the Industrial Electronics Society 2022 / p. 751-777 : ill <https://doi.org/10.1109/OJIES.2022.3225265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A systematic approach on modeling refinement and regression testing of real-time distributed systems**

**Pal, Deepak; Vain, Jüri** IFAC-PapersOnLine 2019 / p. 1091-1096 <https://doi.org/10.1016/j.ifacol.2019.11.341> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**A systematic literature review on applicability of robot assistants in higher education**

**Budagov, Fuad; Leoste, Janika; Meeran, Mohammad Tariq; Robal, Tarmo** Methodologies and Intelligent Systems for Technology Enhanced Learning : MIS4TEL 2024 2024 / p. 21-32 [https://doi.org/10.1007/978-3-031-73538-7\\_3](https://doi.org/10.1007/978-3-031-73538-7_3) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Systematic support for full knowledge management lifecycle by advanced semantic annotation across information system boundaries**

**Pattanaik, Vishwajeet; Norta, Alexander**; Felderer, Michael; **Draheim, Dirk** Information Systems in the Big Data Era : CAiSE Forum 2018, Tallinn, Estonia, June 11-15, 2018 : proceedings 2018 / p. 66-73 [https://doi.org/10.1007/978-3-319-92901-9\\_7](https://doi.org/10.1007/978-3-319-92901-9_7) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Zero-current switching impedance-source DC-DC converter**

**Korkh, Oleksandr; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri** IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5051-5056 <https://doi.org/10.1109/IECON.2019.8927614> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Task-based mobile learning ISC-system: built-in Coronavirus immunity confirmed**

**Udal, Andres; Jaanus, Martin; Piho, Gunnar** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 604-616 [https://doi.org/10.1007/978-3-030-68201-9\\_59](https://doi.org/10.1007/978-3-030-68201-9_59) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Teaching project risk management in a BIM-enabled learning environment**

**Witt, Emlyn David Qivitoq; Olowa, Theophilus Oluwarotimi Olatunde; Lill, Irene** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 1 2021 / p. 162-173 [https://doi.org/10.1007/978-3-030-68198-2\\_14](https://doi.org/10.1007/978-3-030-68198-2_14) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Telepresence robots in higher education - the current state of research**

**Leoste, Janika; Kikkas, Kaido; Tammemäe, Kalle; Rebane, Martin; Laugasson, Edmund; Hakk, Kristiina** Robots in education : RiE 2022 2022 / p. 124-134 [https://doi.org/10.1007/978-3-031-12848-6\\_12](https://doi.org/10.1007/978-3-031-12848-6_12) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**TermX—bridging the Gap: implementing CTS2 and FHIR compatible terminology server**

**Ivanova, Marina; Bossenko, Igor; Piho, Gunnar** Proceedings of Ninth International Congress on Information and Communication



Technology, ICT 2024, London. Volume 1 2024 / p. 277-287 : ill [https://doi.org/10.1007/978-981-97-4581-4\\_20](https://doi.org/10.1007/978-981-97-4581-4_20) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **A test for the generic strong-accessibility of meromorphic nonlinear systems**

Carravetta, Francesco; Sarafrazi, Mohammad Amin; Bartosiewicz, Zbigniew; **Kotta, Ülle** IEEE transactions on automatic control 2020 / p. 867-873 <https://doi.org/10.1109/TAC.2019.2921645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Testing generic strong accessibility of nonlinear control systems via polynomial (quadratic) immersion**

Carravetta, Francesco; Sarafrazi, Mohammad Amin; Bartosiewicz, Zbigniew; **Kotta, Ülle** 61st IEEE Conference on Decision and Control, CDC 2022, Cancun, 6 December - 9 December 2022, proceedings 2022 / p. 1841-1846 <https://doi.org/10.1109/CDC51059.2022.9992952> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Testing the applicability of digital decision support on a nationwide EHR**

**Metsallik, Janek; Ross, Peeter** Digital Economy. Emerging Technologies and Business Innovation : 6th International Conference on Digital Economy, ICDEc 2021, Tallinn, Estonia, July 15–17, 2021 : proceedings 2021 / p. 134–146 [https://doi.org/10.1007/978-3-030-92909-1\\_9](https://doi.org/10.1007/978-3-030-92909-1_9) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **The ARROWS project : adapting and developing robotics technologies for underwater archaeology**

Allotta, Benedetto; Costanzi, Riccardo; **Kruusmaa, Maarja; Salumäe, Taavi** IFAC-PapersOnLine 2015 / p. 194-199 : ill <https://doi.org/10.1016/j.ifacol.2015.06.032> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **The most prominent software development concepts cited in IT professionals' blogs**

**Ojastu, Deniss; Robal, Tarmo; Kalja, Ahto** Perspectives in business informatics research : 14th International Conference, BIR 2015, Tartu, Estonia, August 26-28, 2015 : proceedings 2015 / p. 197-212 [https://doi.org/10.1007/978-3-319-21915-8\\_13](https://doi.org/10.1007/978-3-319-21915-8_13) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **The role of reverse logistics in the transition to a circular economy**

Makarova, Irina; Shubenkova, Ksenia; **Pashkevich, Anton**; Shepelev, Vladimir Reliability and Statistics in Transportation and Communication : Selected Papers from the 18th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'18, 17-20 October 2018, Riga, Latvia 2019 / p. 363–373 [https://doi.org/10.1007/978-3-030-12450-2\\_35](https://doi.org/10.1007/978-3-030-12450-2_35) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **The role of stakeholders in E-Occupational health and safety system in Estonia**

**Vilcane, Inese; Koppel, Tarmo**; Kalkis, Henrijs; **Tsenter, Olga; Tint, Piia** 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 2019 / p. 22-33 [https://doi.org/10.1007/978-3-030-20142-5\\_3](https://doi.org/10.1007/978-3-030-20142-5_3) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **The socio-economic impact of green shipping: a holistic view from the Baltic Sea region**

**Prause, Gunnar Klaus; Reinhold, Karin; Järvis, Marina; Olaniyi, Eunice Omolola; Tint, Piia** Reliability and Statistics in Transportation and Communication : Selected Papers from the 18th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'18, 17-20 October 2018, Riga, Latvia 2019 / p. 615-624 [https://doi.org/10.1007/978-3-030-12450-2\\_59](https://doi.org/10.1007/978-3-030-12450-2_59) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Thermal analysis of totally enclosed fan cooled synchronous reluctance motor-state of art**

**Shams Ghahfarokhi, Payam; Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar** IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4372-4377 : ill <https://doi.org/10.1109/IECON.2019.8927706> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Three-dimensional eddy-current analysis in steel laminations of electrical machines as a contribution for improved iron loss modeling**

Handgruber, Paul; Stermecki, Andrej; Biro, Oszkar; **Belahcen, Anouar**; Dlala, Emad IEEE transactions on industry applications 2013 / p. 2044-2052 : ill <https://doi.org/10.1109/TIA.2013.2260713> <https://ieeexplore.ieee.org/document/6510501> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **3L-T-type qZSI as grid-forming unit in AC microgrid**

Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; **Husev, Oleksandr**; Pires, Victor; Milanés-Montero, Maria Isabel; Gonzalez-Romera, Eva IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / code 184962 <https://doi.org/10.1109/IECON49645.2022.9968571> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Three-mode reconfigurable rectifier for DC-DC converters with wide input voltage range**

**Chub, Andrii; Vinnikov, Dmitri**; Kouro, Samir; Malinowski, Mariusz IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4429-4435 <https://doi.org/10.1109/IECON.2019.8926994> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **A token economy governance model**

**Kivilo, Samela**; Norta, Alexander; Hattingh, Marie Harnessing AI, Machine Learning, and IoT for Intelligent Business ; Vol. 2 2024 / p. 395 - 405 [https://doi.org/10.1007/978-3-031-66218-8\\_30](https://doi.org/10.1007/978-3-031-66218-8_30) [Article collection metrics at Scopus](#) [Article at Scopus](#)

#### **Topological review of quasi-switched boost inverters**

Barath, Jayakumar Geetha Nataraj; Soundarrajan, Ayyasamy; Stepenko, Serhii; **Husev, Oleksandr; Vinnikov, Dmitri**; Nguyen, Minh-Khai Electronics 2021 / art. 1485 <https://doi.org/10.3390/electronics10121485> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Towards a Cross-Border Reference Architecture for the Once-Only Principle in Europe : An Enterprise Modelling Approach**

**Tepandi, Jaak**; Grandry, Eric; Fieten, Sander; **Draheim, Dirk; Piho, Gunnar** The Practice of Enterprise Modeling : 12th IFIP Working Conference, PoEM 2019, Luxembourg, Luxembourg, November 27–29, 2019 : proceedings 2019 / p. 103-117 [https://doi.org/10.1007/978-3-030-35151-9\\_7](https://doi.org/10.1007/978-3-030-35151-9_7) [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Towards a machine learning-based framework for DDOS attack detection in software-defined IoT (SD-IoT) networks**

Bhayo, Jalal; Shah, Syed Attique; Hameed, Sufian; Ahmed, Awais; Nasir, Jamal; **Draheim, Dirk** Engineering Applications of Artificial Intelligence 2023 / art. 106432 <https://doi.org/10.1016/j.engappai.2023.106432> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Towards early public health emergency anticipating with emerging non-health data per se**

Semassel, Imed Eddine; **Ben Yahia Sadok** 12th International Conference on Information Systems and Advanced Technologies "ICISAT 2022" : Intelligent Information, Data Science and Decision Support System 2023 / p. 530 - 546 [https://doi.org/10.1007/978-3-031-25344-7\\_49](https://doi.org/10.1007/978-3-031-25344-7_49) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Towards generation of synthetic data sets for hybrid conflict modelling**

**Nömm, Sven; Venables, Adrian Nicholas** IFAC-Papers OnLine 2022 / p. 25-30 <https://doi.org/10.1016/j.ifacol.2022.10.226> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Towards integrability for nonlinear time-delay systems**

**Kaldmäe, Arvo**; Moog, Claude H.; Califano, Claudia IFAC-Papers OnLine 2015 / p. 900-905 <https://doi.org/10.1016/j.ifacol.2015.09.305> [Conference proceedings at Scopus](#) [Article at Scopus](#)

#### **Towards process-aware cross-organizational human resource management**

Cabanillas, Christina; **Norta, Alexander** Enterprise, Business-Process and Information Systems Modeling : 15th International Conference, BPMDS 2014, 19th International Conference, EMMSAD 2014, Held at CAiSE 2014, Thessaloniki, Greece, June 16-17, 2014 : proceedings 2014 / p. 79-93 : ill [https://doi.org/10.1007/978-3-662-43745-2\\_6](https://doi.org/10.1007/978-3-662-43745-2_6) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at Scopus](#)

#### **Towards self-development of evolutionary information systems : an action research of business architecture development by students in socially networked groups**

**Roost, Mart; Taveter, Kuldar; Rava, Karin; Tepandi, Jaak; Piho, Gunnar; Kuusik, Rein, inform.; Õunapuu, Enn** Advanced Information Systems Engineering Workshops : CAiSE 2013 International Workshops, Valencia, Spain, June 17-21, 2013 : proceedings 2013 / p. 1-15 [https://doi.org/10.1007/978-3-642-38490-5\\_1](https://doi.org/10.1007/978-3-642-38490-5_1) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Transactive energy : power electronics challenges**

Martins, João F.; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Malinowski, Mariusz IEEE Power Electronics Magazine 2022 / p. 20-32 <https://doi.org/10.1109/PEL.2022.3140981> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Transformation of nonlinear discrete-time system into the extended observer form**

**Kaparin, Vadim; Kotta, Ülle** International journal of control 2018 / p. 848-858 <https://doi.org/10.1080/00207179.2017.1294264> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Transformation of nonlinear MIMO discrete-time systems into the extended observer form**

**Kaparin, Vadim; Kotta, Ülle** Asian journal of control 2019 / p. 2208–2217 : ill <https://doi.org/10.1002/asjc.1824> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Transformation of nonlinear state equations into the observer form : necessary and sufficient conditions in terms of one-forms**

**Kaparin, Vadim; Kotta, Ülle** Kybernetika 2015 / p. 36-58 <https://doi.org/10.14736/kyb-2015-1-0036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Transforming a set of nonlinear input-ouput equations into Popov form**

Bartosiewicz, Zbigniew; **Kotta, Ülle**; Pawluszewicz, Ewa; **Tönso, Maris**; Wyrwas, Małgorzata 2015 54th IEEE Conference on Decision and Control (CDC) : date: 15-18 Dec. 2015 2015 / p. 7131 - 7136 <https://doi.org/10.1109/CDC.2015.7403344> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Transition from classroom teaching to E-learning in a blink of an eye**

**Annus, Ivar** Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 797-807 [https://doi.org/10.1007/978-3-030-68201-9\\_79](https://doi.org/10.1007/978-3-030-68201-9_79) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Transnational RIS3 observatory model for smart specialisation monitoring on regional, national and european level**

**Meyer, Christopher** Reliability and statistics in transportation and communication : Selected Papers from the 20th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'20, 14-17 October 2020, Riga, Latvia 2021 / p. 749-757 [https://doi.org/10.1007/978-3-030-68476-1\\_69](https://doi.org/10.1007/978-3-030-68476-1_69) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **2D estimation of velocity relative to water and tidal currents based on differential pressure for autonomous underwater vehicles**

**Meurer, Christian; Fuentes-Perez, Juan Francisco;** Schwarzwald, Kordula; Ludvigsen, Martin; Sorensen, Asgeir Johan; **Kruusmaa, Maarja** IEEE robotics and automation letters 2020 / p. 3444-3451 <https://doi.org/10.1109/LRA.2020.2976318> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Uncertainty propagation in PMU-based transmission line monitoring**

**Tuttelberg, Kaur; Kilter, Jako** IET generation, transmission & distribution 2018 / p. 745-755 : ill <https://doi.org/10.1049/iet-gtd.2017.0244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Understanding the potential of telepresence robots in higher education learning : a case study**

**Leoste, Janika; Talisainen, Aleksei; Pöial, Jaanus; Kangur, Katrin; Kasuk, Tiina; Parts, Joosep** Advances in Information and Communication Proceedings of the 2024 Future of Information and Communication Conference (FICC), Volume 1 2024 / p. 694-704 [https://doi.org/10.1007/978-3-031-53960-2\\_45](https://doi.org/10.1007/978-3-031-53960-2_45) [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Underwater confined space mapping by resource-constrained autonomous vehicle**

**Preston, Victoria; Salumäe, Taavi; Kruusmaa, Maarja** Journal of field robotics 2018 / p. 1122-1148 : ill <https://doi.org/10.1002/rob.21806> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **University ecosystem for student startups : a 'platform of trust' perspective**

**Ainamo, Antti; Pikas, Ergo;** Mikkela, K. Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 269-276 [https://doi.org/10.1007/978-3-030-68201-9\\_28](https://doi.org/10.1007/978-3-030-68201-9_28) [https://acris.aalto.fi/ws/portalfiles/portal/86345674/ENG\\_Ainamo\\_et\\_al\\_University\\_ecosystem\\_for\\_student\\_startups\\_ICL2020.pdf](https://acris.aalto.fi/ws/portalfiles/portal/86345674/ENG_Ainamo_et_al_University_ecosystem_for_student_startups_ICL2020.pdf) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Updated curriculum for engineering pedagogical continuing in-service education**

**Rüütman, Tiia; Annus, Ivar; Kübarsepp, Jakob;** Läänemets, Urve; Umborg, Jaak Mobility for Smart Cities and Regional Development - Challenges for Higher Education : proceedings of the 24th International Conference on Interactive Collaborative Learning (ICL2021), Volume 2 2022 / p. 556-567 [https://doi.org/10.1007/978-3-030-93907-6\\_59](https://doi.org/10.1007/978-3-030-93907-6_59) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **The usage of declarative integrity constraints in the SQL databases of some existing software**

**Eessaar, Erki** Software Engineering and Algorithms : Proceedings of 10th Computer Science On-line Conference 2021, Vol. 1 2021 / p. 375-390 [https://doi.org/10.1007/978-3-030-77442-4\\_33](https://doi.org/10.1007/978-3-030-77442-4_33) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Using competency mapping for skills assessment in an introductory cybersecurity course**

**Mäses, Sten; Maennel, Olaf Manuel;** Sütterlin, Stefan Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 572-583 [https://doi.org/10.1007/978-3-030-68201-9\\_56](https://doi.org/10.1007/978-3-030-68201-9_56) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Using technical cybersecurity exercises in university admissions and skill evaluation**

**Maennel, Kaie; Mäses, Sten;** Sütterlin, Stefan; **Ernits, Margus; Maennel, Olaf Manuel** IFAC-PapersOnLine 2019 / p. 169-174 <https://doi.org/10.1016/j.ifacol.2019.12.169> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Using telepresence robots for ICT consultancy**

**Leoste, Janika; Pöial, Jaanus; Rebane, Martin; Marmor, Kristel; Tammemäe, Kalle** Towards a hybrid, flexible and socially engaged higher education 2024 / p. 157-168 [https://doi.org/10.1007/978-3-031-52667-1\\_17](https://doi.org/10.1007/978-3-031-52667-1_17) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Utilization of additive manufacturing in the thermal design of electrical machines : a review**

**Sarap, Martin; Kallaste, Ants; Shams Ghahfarokhi, Payam; Tiismus, Hans; Vaimann, Toomas** Machines 2022 / art. 251 <https://doi.org/10.3390/machines10040251> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Utilizing the fuzzy logic algorithm for cartesian robot control system in conditions of mechanical damage transmission**

**Dunaeva, Olga; Autso, Siarhei; Kudelina, Karolina; Roosileht, Mare** IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society IECON Proceedings (Industrial Electronics Conference) 2024 / 5 p

**Weak reachability and controllability of discrete-time nonlinear systems: generic approach and singular points**

Mullari, Tanel; Kotta, Ülle; Bartosiewicz, Zbigniew; Sarafrazi, Mohammad Amin; Moog, Claude; Pawluszewicz, Ewa International journal of control 2020 / p. 483-489 <https://doi.org/10.1080/00207179.2018.1479076> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Wear-out failure analysis of an impedance-source PV microinverter based on system-level electrothermal modeling**

Shen, Yanfeng; Chub, Andrii; Wang, Huai; Vinnikov, Dmitri; Liivik, Elizaveta; Blaabjerg, Frede IEEE transactions on industrial electronics 2019 / p. 3914-3927 <https://doi.org/10.1109/TIE.2018.2831643> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**A web-based economic decision tool for abatement investments for shipping industry**

Bakkar, Yassine; Robal, Tarmo; Prause, Gunnar Klaus Reliability and statistics in transportation and communication : Selected Papers from the 19th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'19, 16-19 October 2019, Riga, Latvia 2020 / p. 363-373 [https://doi.org/10.1007/978-3-030-44610-9\\_36](https://doi.org/10.1007/978-3-030-44610-9_36) Article collection metrics at Scopus Article at Scopus

**Whisker-based tactile navigation algorithm for underground robots**

Kossas, Tanel; Remmas, Mohamed Walid; Gkliva, Roza; Ristolainen, Asko; Kruusmaa, Maarja 2024 IEEE International Conference on Robotics and Automation (ICRA) 2024 / p. 13164-13170 <https://doi.org/10.1109/ICRA57147.2024.10610762> Conference proceedings at Scopus Article at Scopus Article at WOS

**Wide input voltage range photovoltaic microconverter with reconfigurable buck-boost switching stage**

Chub, Andrii; Vinnikov, Dmitri; Kosenko, Roman; Liivik, Elizaveta IEEE transactions on industrial electronics 2017 / p. 5974-5983 : ill <https://doi.org/10.1109/TIE.2016.2645891> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Wide-range operation of high step-up DC-DC converters with multimode rectifiers**

Chub, Andrii; Vinnikov, Dmitri; Korkh, Oleksandr; Jalakas, Tanel; Demidova, Galina Electronics 2021 / art. 914, 20 p. : ill <https://doi.org/10.3390/electronics10080914> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Wide-range universal isolated DC-DC converter for EV charging applications**

Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 5 p <https://doi.org/10.1109/IECON55916.2024.10905692> Conference proceedings at Scopus Article at Scopus

**Voltage distortion approach for output filter design for off-grid and grid-connected PWM inverters**

Husev, Oleksandr; Chub, Andrii; Romero-Cadaval, Enrique; Roncero-Clemente, Carlos; Vinnikov, Dmitri Journal of power electronics 2015 / p. 278-287 : ill <https://doi.org/10.6113/JPE.2015.15.1.278> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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Puudist, Eerik Sven; Luberg, Ago; Aus, Kati Learning in the Age of Digital and Green Transition : Proceedings of the 25th International Conference on Interactive Collaborative Learning (ICL2022), Volume 2 2023 / p. 590-596 [https://doi.org/10.1007/978-3-031-26190-9\\_62](https://doi.org/10.1007/978-3-031-26190-9_62) Conference proceedings at Scopus Article at Scopus

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Zhuang, Bo; Cui, Baotong; Chen, Juan Control theory & applications 2020 / p. 592-602 <https://doi.org/10.7641/CTA.2019.90061> Journal metrics at Scopus Article at Scopus