

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

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

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

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

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

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

Aggregated energy flexibility provision using residential heat pumps

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

Aggregation ready flexibility management methods for mechanical ventilation systems in buildings

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

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

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

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

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

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

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

An application - a web-based electrical drives laboratory : objectives, structure and experiments

Rosin, Argo; Möller, Taavi; Hõimoja, Hardi IECON 2009 : 35th Annual Conference of the IEEE Industrial Electronics Society. ICELE 2009 : 3rd IEEE International Conference on E-learning in Industrial Electronics : Porto, Portugal, 3-5 November 2009 : abstracts 2009 / p. 392 <https://ieeexplore.ieee.org/document/5413215/>

Analyse of control and diagnostics problems of trams and development of new systems and methods

Rosin, Argo 2nd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 17-22, 2005 2005 / p. 86-92 : ill

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

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

Analysis 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 consumer energy flexibility and applicability for power system

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

Analysis of household electricity consumption patterns and economy of water heating shifting and saving bulbs

Rosin, Argo; Möller, Taavi; Lehtla, Madis; Hõimoja, Hardi Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2010 / p. 15-20 : ill

Analysis of operation times and electrical storage dimensioning for energy consumption shifting and balancing in

residential areas

Rosin, Argo; Auväär, Aivar; Lebedev, Denis Elektronika ir elektrotehnika = Electronics and electrical engineering 2012 / p. 15-20 : ill

https://www.researchgate.net/publication/268406195_Analysis_of_Operation_Times_and_Electrical_Storage_Dimensioning_for_Energy_Consumption_Shifting_and_Balancing_in_Residential_Areas

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

Analysis of ventilation load flexibility depending on indoor climate conditions

Maask, Vahur; Häring, Tobias; Ahmadihangar, Roya; Rosin, Argo; Korõtko, Tarmo 2020 IEEE International Conference on Industrial Technology, Buenos Aires Institute of Technology (ITBA) Buenos Aires, Argentina, 26-28 February, 2020 : proceedings 2020 / p. 607-612 <https://doi.org/10.1109/ICIT45562.2020.9067153> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

ANN-LSTM based tool for photovoltaic power forecasting

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

Applying reinforcement learning method for real-time energy management

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

Argo Rosin : energeetika vajab operatiivset ja arukat tegutsemist

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

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

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

Argo Rosin: ilma insenerideta jääks maailm pimedusse

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

Argo Rosin: kas rohepöore või rohepöörasus? [Võrguväljaanne]

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

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

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

Argo Rosin: Kuidas kilplased vaimult rikkaks ja õnnelikuks said

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

Argo Rosin: rohepöore, ülikool ja mängurlus [Võrguväljaanne]

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

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

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

Argo Rosin: tõsiroheline pöore vajab rohkem insenere [Võrguväljaanne]

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

Artificial Hummingbird Algorithm For Optimal Reconfiguration Of Electrical Distribution networks

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

Assessing demand side flexibility with renewable energy resources [Electronic resource]

Mishra, Sambeet; Koduvere, Hardi; Palu, Ivo; Kuhi-Thalfeldt, Reeli; Rosin, Argo 2016 IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC) : 7-10 June 2016, Florence, Italy : conference proceedings 2016 / [6] p. : ill. [CD-ROM] <https://doi.org/10.1109/EEEIC.2016.7555546>

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

Assessment of power system asset dispatch under different local energy community business models
Korõtko, Tarmo; Plaum, Freddy; Häring, Tobias; Mutule, Anna; Lazdins, Roberts; Boršcevisks, Olegs; Rosin, Argo; Carroll, Paula Energies 2023 / art. 3476 <https://doi.org/10.3390/en16083476> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Automaatika [Võrguväljaanne]

Lehtla, Tõnu; Rosin, Argo 2001 <http://www.ene.ttu.ee/elektrijamid/Leonardo/automaatika/index.html>

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

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

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

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

Case study of ECD model accuracy in estimating the cell output voltage and power dissipation

Rahmoun, Ahmad; Biechl, Helmuth; Rosin, Argo Doctoral School of Energy and Geotechnology II : closing conference of the project : Pärnu, Estonia, January 12-17, 2015 2015 / p. 45-48 : ill

Case study of outdoor digital screens effect on drivers

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

Case study of smart city lighting system with motion detector and remote control

Kuusik, Marko; Varjas, Toivo; Rosin, Argo 2016 IEEE International Energy Conference (ENERGYCON) : [Leuven, Belgium, 4-8 April 2016] 2016 / [5] p. : ill <https://doi.org/10.1109/ENERGYCON.2016.7513906>

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

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

Challenges of smart grids implementation

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

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

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

Clustering-based penalty signal design for flexibility utilization

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

Comparison between equivalent circuit diagrams and fractional rational functions in the frequency domain for Lithium-ion battery modeling

Rahmoun, Ahmad; Biechl, Helmuth; Rosin, Argo 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 55-58 : ill

Comparison of machine learning based methods for residential load forecasting

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

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](#)

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

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

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

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

Complexities associated with modeling of residential electricity consumption

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

A comprehensive market mechanism for decentralized P2P energy trading platform

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

A conceptual design method for the general electric vehicle

Sell, Raivo; Tamre, Mart; Lehtla, Madis; Rosin, Argo Estonian journal of engineering 2008 / 1, p. 3-16 : ill <https://doi.org/10.3176/eng.2008.1.01>

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

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

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

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

Control and operation diagnostics of light rail electric transport : research and development

Rosin, Argo 2011 <https://www.amazon.com/Control-Operation-Diagnostics-Electric-Transport/dp/3844333673>

Control basics of a flywheel-powered uninterruptible motor drive

Hõimoja, Hardi; Vinnikov, Dmitri; Rosin, Argo BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 289-292 : ill

Control of bidirectional grid-forming inverter for nearly zero energy buildings

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

Control of ultracapacitors energy exchange [Electronic resource]

Roasto, Indrek; Lehtla, Tõnu; Möller, Taavi; Rosin, Argo EPE-PEMC 2006 : 12th International Power Electronics and Motion Control Conference : Portorož, Slovenia, August 30 - September 1, 2006 : proceedings 2006 / p. 1401-1406 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4778599>

Control strategies of ultracapacitors

Roasto, Indrek; Lehtla, Tõnu; Rosin, Argo 3rd International Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 16-21, 2006 2006 / p. 85-88

Control, supervision and operation diagnostics of light rail electric transport

Rosin, Argo; Lehtla, Tõnu 2005 https://www.ester.ee/record=b2073559*est

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

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

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

Azizi, Elnaz; Shotorbani, R.; **Ahmadihangar, Roya**; Mohammadi-Ivatloo, B.; **Rosin, Argo**; Sadiq, R. Sustainable cities and society 2021 / art. 102673, 10 p. : ill <https://doi.org/10.1016/j.scs.2020.102673> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost-effective optimization of load shifting in the industry by using intermediate storages

Uuemaa, Priit; **Kilter, Jako**; **Valtin, Juhan**; **Drovtar, Imre**; **Rosin, Argo**; **Puusepp, Andres** Conference proceedings of IEEE ISGT Europe 2013 : 4th IEEE/PES Innovative Smart Grid Technologies Europe 2013 / [5] p

Cyber-physical microgrids : toward flexible energy districts

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

Data communication with InTouch application over Windows DDE

Möller, Taavi; **Rosin, Argo** The 4th Research Symposium of Young Scientists : Actual Problems of Electrical Drives and Industry Automation : Tallinn, Estonia, May 17-21, 2003 2003 / p. 75-76 : ill

Data-driven quantification and aggregation of demand-side flexibility for symmetrical bidding in energy balancing markets

Shahid, Arqum; **Ahmadihangar, Roya**; **Kilter, Jako**; **Rosin, Argo** Electric Power Systems Research 2025 / art. 111823 <https://doi.org/10.1016/j.epr.2025.111823>

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

Alilou, Masoud; Gharehpetian, Gevork B.; **Ahmadihangar, Roya**; **Rosin, Argo**; Anvari-Moghaddam, Amjad Sustainability (Switzerland) 2022 / Art. 11773 <https://doi.org/10.3390/su141811773> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

Drovtar, Imre; **Rosin, Argo**; **Kilter, Jako** Elektronika ir elektrotehnika = Electronics and electrical engineering 2016 / p. 13-19 : ill <https://doi.org/10.5755/j01.eie.22.3.15308> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Demand side management possibilities and viability for voltage support services in Estonia = Tarbimise juhtimise võimaluste uurimine ning rakendatavus pingereguleerimise teenusteks Eestis

Drovtar, Imre 2016 <http://digi.lib.ttu.ee/il/?6032> https://www.ester.ee/record=b4601226*est

Demand side management potential in Estonia - a case study for the wood industry

Drovtar, Imre; **Rosin, Argo**; **Kilter, Jako** 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 94-97 : ill

Demand-side Flexibility in Smart Grid

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

Design of devices for advanced protection, voltage-quality and load priority control in residential microgrids

Lehtla, Madis; **Rosin, Argo**; **Möller, Taavi**; **Pikner, Rando** EPE-PEMC 2010 : 14th International Power Electronics and Motion Control Conference : 6-8 September 2010, Ohrid, Republic of Macedonia 2010 / p. T6-97 - T6-100 <https://ieeexplore.ieee.org/document/5606611> <https://doi.org/10.1109/EPEPEMC.2010.5606611>

Design of renewable micro generation monitoring and control application

Lehtla, Madis; **Kõivastik, Ivar**; **Möller, Taavi**; **Kallaste, Ants**; **Rosin, Argo** PQ2010 : 7th International Conference "2010 Electric Power Quality and Supply Reliability" : June 16-18, 2010, Kuressaare, Estonia 2010 / p. 105-110 : ill

Determination methods for controller parameters of back-to-back converters in electric power grids

Beg, Nauman; **Rahmoun, Ahmad**; **Armstorfer, Andreas**; **Rosin, Argo**; **Biechl, Helmuth** PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 157-164 : ill <https://doi.org/10.1109/PQ.2016.7724106>

Determination of the impedance of lithium-ion batteries using methods of digital signal processing

Rahmoun, Ahmad; Loske, Moritz; **Rosin, Argo** Energy procedia 2014 / p. 204-213 : ill <https://doi.org/10.1016/j.egypro.2014.01.174> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Determining optimisation framework for local energy communities

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

Development of a battery sizing tool for nearly zero energy buildings

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

Development of control and diagnostics system for Tallinn trams

Rosin, Argo; **Pettai, Elmo**; **Lehtla, Tõnu** BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 327-330 : ill

Development of energy reserve optimization methodology for households with renewable power systems = Taastuva energia allikatega kodumajapidamiste energiareservi optimeerimise meetodika väljatöötamine

Auväärt, Aivar 2014 http://www.ester.ee/record=b4412783*est

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

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

Development of prosumer logical structure and object modeling

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

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

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

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

Korõtko, Tarmo; **Zahraoui, Younes**; **Rosin, Argo**; **Agabus, Hannes** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227475>

Dimensioning of electricity storage according to small wind turbine power generation and household load patterns

Rosin, Argo; **Palu, Ivo**; **Rosin, Kai**; **Auväärt, Aivar** IECON 2012 : 38th Annual Conference of the IEEE Industrial Electronics Society : Industrial Electronics for Sustainable Development 2012 / p. 5173-5178 : ill https://www.researchgate.net/publication/261124704_Dimensioning_of_electricity_storage_according_to_small_wind_turbine_power_generation_and_household_load_patterns

Distributed energy supply system for electric vehicles

Pettai, Elmo; **Laugis, Juhan**; **Lehtla, Tõnu**; **Joller, Jüri**; **Rosin, Argo** EPE-PEMC 2004 : 11th International Power Electronics and Motion Control Conference : 2-4 September 2004, Riga, Latvia : proceedings. Vol. 6 of 7, Mechatronics, industrial drive systems, power electronics and drives in transport, EMC and design of PE systems 2004 / p. 6-218 - 6-221

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

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

ECOGRID EU Project – real time price based load control and economic benefits in a wind production based system

Aleixo, Luis; **Rosin, Argo**; Saele, Hanne; Morch, Andrei Z.; Grande, Ove S.; **Palu, Ivo** CIRED 2013 : 22nd International Conference and Exhibition on Electricity Distribution : special reports 2013 <https://doi.org/10.1049/cp.2013.1253>
<https://ieeexplore.ieee.org/document/6683856>

Economic impact of renewable electricity generation on the Baltic region's electricity market

Drovtar, Imre; Landsberg, Mart; **Kilter, Jako**; **Rosin, Argo** Przegląd elektrotechniczny = Electrical review 2012 / p. 161-165 : ill https://www.academia.edu/80501050/Economic_impact_of_renewable_electricity_generation_on_the_Baltic_regions_electricity_market

Effects of PV microgeneration on rural LV network voltage quality - harmonics and unbalance

Hürmeýdan, Semih; **Rosin, Argo**; **Vinnal, Toomas** PQ2016 : the 10th International Conference 2016 Electric Power Quality and

Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 97-100 : ill
<https://doi.org/10.1109/PQ.2016.7724096>

Effects of PV microgeneration on rural LV network voltage quality [Online resource]

Hürmeydan, Semih; Rosin, Argo; Vinnal, Toomas; Jagomägi, Andri 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [4] p. : ill
<https://doi.org/10.1109/RTUCON.2016.7763083>

E-laboratory in the field of electrical drives

Hõimoja, Hardi; Rosin, Argo; Möller, Taavi; Müür, Margus EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 77 <https://ieeexplore.ieee.org/document/4635560>

E-laboratory in the field of electrical drives [Electronic resource]

Hõimoja, Hardi; Rosin, Argo; Möller, Taavi; Müür, Margus EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 2028-2033 : ill. [CD-ROM]
<https://ieeexplore.ieee.org/document/4635560>

Electrical drives remote laboratory at the TUT

Hõimoja, Hardi; Möller, Taavi; Rosin, Argo; Müür, Margus 5th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology : Kuressaare, January 14-19, 2008 2008 / p. 177-182 : ill

Electricity consumption analysis and power quality monitoring in commercial buildings

Drovtar, Imre; Niitsoo, Jaan; Rosin, Argo; Kilter, Jako; Palu, Ivo PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 107-112 : ill
<https://ieeexplore.ieee.org/document/6256212>

Electricity price and load forecast based new energy management system for households

Lebedev, Denis; Melentjev, Sergei; Rosin, Argo 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 73-77 : ill

Elekter ja soojus

Rosin, Argo Postimees 1999 / 21. jaan., Tallinn, lk. 2

Elektriautode projekt annab unikaalse kogemuse

Rosin, Argo Eesti Päevaleht 2011 / lk. 3

Elektriku kalender 1999

Jõeveer, Mihkel; **Laugis, Juhan; Lehtla, Tõnu; Risthein, Endel; Rosin, Argo** 1998 https://www.ester.ee/record=b1194736*est

Elektritarkvõrgud ja virtuaalsed elektrijaamad

Rosin, Argo; Korõtko, Tarmo TööstusEST 2018 / lk. 32-34 : ill http://www.ester.ee/record=b4481084*est
<https://toostusest.ee/uudis/2018/09/04/virtuaalsed-elektrijaamad/> https://artiklid.elnet.ee/record=b2865323*est

Enam kui 30 aastat koostööd Kempteni Kõrgkooliga

Rosin, Argo Mente et Manu 2023 / lk. 44-45 : fot https://www.ester.ee/record=b1242496*est

Energeetikaekspertid lasevad valitsusliidu energiaplaani sõelapõhjaks

Pott, Toomas err.ee 2025 [Energeetikaekspertid lasevad valitsusliidu energiaplaani sõelapõhjaks](#)

Energiasalvestid ja -salvestustehnoloogiad

Rosin, Argo; Link, Siim; Hõimoja, Hardi; Drovtar, Imre 2015 http://www.ester.ee/record=b4484414*est

Energiatarbimise juhtimisel on tarkades majades kandev roll

Rosin, Argo Inseneeria 2014 / lk. 18-19 : ill https://artiklid.elnet.ee/record=b2672914*est

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 scheduling of battery storage systems in micro grids

Armstorfer, Andreas; Biechl, Helmuth; **Rosin, Argo** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2017 / p. 27-33 : ill <https://doi.org/10.1515/ecce-2017-0004>

Energy storage dimensioning and feasibility analysis for household consumption scheduling based on fluctuations of

Nord Pool Spot price

Rosin, Argo; Auväär, Aivar; Lebedev, Denis Przegląd elektrotechniczny = Electrical review 2012 / p. 37-40 : ill
<http://pe.org.pl/articles/2012/1a/7.pdf>

Energy storage expansion planning in microgrid

Ahmadihangar, Roya; Baharvandi, Amir; Rosin, Argo; Häring, Tobias; Azizi, Elnaz; Korötko, Tarmo; Shabbir, Noman
Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 433-437 <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161502>

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

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

Enhancing PV hosting capacity and mitigating congestion in distribution networks with deep learning based PV forecasting and battery management

Shabbir, Noman; Kütt, Lauri; Astapov, Victor; Daniel, Kamran; Jawad, Muhammad; Husev, Oleksandr; Rosin, Argo; Martins, Joao Applied energy 2024 / art. 123770 <https://doi.org/10.1016/j.apenergy.2024.123770> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ettevõtluse ja teaduse koostööst inseneri pilgu läbi

Rosin, Argo Äripäev 2019 / Tööstusuudised, lk. 16-17

Euroopa perutav roheratsu

Rosin, Argo; Drovtar, Imre Postimees 2021 / Lk. 6-7

Evaluation of equivalent circuit diagrams and transfer functions for modeling of lithium-ion batteries

Rahmoun, Ahmad; Biechl, Helmuth; Rosin, Argo Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2013 / p. 34-39 : ill

Experimental sand-filter system in Tallinn water treatment plant

Rosin, Argo; Laugis, Juhan; Lehtla, Tõnu PLCOpen-Industrial Control Programming Conference 2000 2000 / p. 6

Experimental sand-filter systems in Tallinn Water Treatment Plant

Rosin, Argo; Lehtla, Tõnu; Laugis, Juhan 4th International PLCOpen Conference on Industrial Control Programming : ICP 2000 conference : October 10 and 11, 2000, Utrecht, The Netherlands 2000 / p. 39-44 : ill

Experimental water treatment systems control and monitoring via multipoint interface

Rosin, Argo; Lehtla, Tõnu BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 397-400 : ill

Exploratory data analysis for demand-side flexibility quantification

Shahid, Arqum; Ahmadihangar, Roya; Rosin, Argo; Maask, Vahur; Martins, João F. 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227408>

Exploring the Landscape of End User Energy Flexibility: A Systematic Review of Technologies, Challenges, and Opportunities

Maask, Vahur; Agabus, Hannes; Tiismus, Hans; Astapov, Victor; Ahmadihangar, Roya; Korötko, Tarmo; Rosin, Argo
IEEE Access 2025 / p. 146579-146602 <https://doi.org/10.1109/ACCESS.2025.3599989> <https://ieeexplore.ieee.org/document/11129056>

A fast current harmonic detection and mitigation strategy for shunt active filter

Firouzjah, Khalil Gorgani; Ahmadihangar, Roya; Rosin, Argo; Häring, Tobias 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/PQ.2019.8818253>

Flexibility enhancement of hybrid microgrids using optimal H[∞] filtering-based fuzzy control of UIPC

Zolfaghari, Mahdi; Ahmadihangar, Roya; Gharehpetian, Gevork B.; Häring, Tobias; Rosin, Argo Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 451-455 <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161545>

Flexibility investigation of price-responsive batteries in the microgrids cluster

Ahmadihangar, Roya; Azizi, Elnaz; Subham, Sahoo; Häring, Tobias; Rosin, Argo; Vinnikov, Dmitri; Dragicevic, Tomislav; Blaabjerg, Frede Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 456-461 : ill <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161667>

Forecasting available demand-side flexibility

Ahmadihangar, Roya; Rosin, Argo; Palu, Ivo; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 39-49
https://doi.org/10.1007/978-981-15-4627-3_4 [Journal metrics at Scopus](#) [Article at Scopus](#)

Forecasting demand-side flexibility of a household with dynamic consumer behavior analysis

Shahid, Arqum; Ahmadihangar, Roya; Rosin, Argo; Korõtko, Tarmo IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe 2024) : proceedings 2024 / 5 p <https://doi.org/10.1109/ISGTEUROPE62998.2024.10863005>

Forecasting PV energy generation using transformer-based architectures: A comparative study of Lag-Llama, TFT, and DeepAR

Amjad, Furqan; Korõtko, Tarmo; Rosin, Argo 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830763>

Forecasting short term wind energy generation using machine learning

Shabbir, Noman; Ahmadihangar, Roya; Kütt, Lauri; Iqbal, Muhammad Naveed; Rosin, Argo 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p <https://doi.org/10.1109/RTUCON48111.2019.8982365>

GSM and Internet based industry automation systems in the training process

Rosin, Argo Actual Problems of Electrical Drives and Industry Automation : the 3rd Research Symposium of Young Scientists : Tallinn, Estonia, May 19-26, 2001 2001 / p. 96-100 : ill

Hoia raha kokku : kuidas kodus säästlikult energiat tarbida

Kongas, Kerttu Postimehe lisa 2024 [Hoia raha kokku: kuidas kodus säästlikult energiat tarbida](#)

A holistic D-PMU optimal placement framework considering pragmatic constraints in smart grids

Farhizadan, Mohammadreza; Karrari, Mehdi; Gharehpetian, Gevorg B.; **Ahmadihangar, Roya; Kilter, Jako; Rosin, Argo** IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 p.
<https://doi.org/10.1109/CPE-POWERENG54966.2022.9880881>

Hybrid Attention-Based LSTM and XGBoost Model for Short-Term Residential Load Forecasting

Shabbir, Noman; Shahid, Arqum; Daniel, Kamran; Jawad, M.; Rosin, Argo; Martins, Joao 2025 IEEE the 13th International Conference on Smart Energy Grid Engineering (SEGE 2025) 2025

Hybrid energy storage lifetime-oriented control strategy in islanded microgrids : a real time simulation case study

Häring, Tobias; Link, Luca; Rosin, Argo; Biechl, Helmuth 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022
<https://doi.org/10.1109/ENERGYCON53164.2022.9830437>

Identification of Estonian weak low voltage grid topologies [Electronic resource]

Vill, Kaija; Rosin, Argo 2017 IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) : 6-9 June, 2017, Milan, Italy : conference proceedings 2017 / [5] p. : ill. [DVD] <https://doi.org/10.1109/EEEIC.2017.7977757>

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

Häring, Tobias; Ahmadihangar, Roya; Rosin, Argo; Biechl, Helmuth IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 2541-2547 <https://doi.org/10.1109/IECON.2019.8927495> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Impacts of grid-scale battery systems on power system operation, case of Baltic region

Ahmadihangar, Roya; Plaum, Freddy; Häring, Tobias; Drovtar, Imre; Korõtko, Tarmo; Rosin, Argo IET Smart Grid 2024 / p. 101-119 <https://doi.org/10.1049/stg2.12142> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impacts of large scale wind integration on the Baltic region's thermal power plant economics and electricity market in 2025 [Electronic resource]

Drovtar, Imre; Landsberg, Mart; Kilter, Jako; Rosin, Argo SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 684-689 : ill [CD-ROM]
https://www.researchgate.net/publication/261155311_Impacts_of_large_scale_wind_integration_on_the_baltic_region's_thermal_power_plant_economics_and_electricity_market_in_2025

Improving dynamic stability of deregulated power system

Rouhani, Seyed Hossein; **Ahmadihangar, Roya; Häring, Tobias; Rosin, Argo** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p <https://doi.org/10.1109/RTUCON51174.2020.9316618>

Improving Residential Load Forecasting : A Probabilistic Tree-based Approach for Multi-Step Ahead Prediction

Shabbir, Noman; Daniel, Kamran; Jawad, M.; Rosin, Argo; Martins, J. International Scientific Conference on Information, Communication and Energy Systems and Technologies (ICEST) 2025

Info-gap-based optimization of microgrids integrated with power, cooling and hydrogen generation units

Mahmoudnezhad, Fayeze; Mirzaei, Mohammad Amin; Plaum, Freddy; Ahmadihangar, Roya; Kilter, Jako; Rosin, Argo 2022 IEEE 16th International Conference on Compatibility, Power Electronics, and Power Engineering (CPE-POWERENG) 2022 / 7 / <https://doi.org/10.1109/CPE-POWERENG54966.2022.9880860>

Integrating Attention-Based LSTM with XGBoost for Improved Residential DC Load Forecasting

Shabbir, Noman; Shahid, Arqum; Daniel, Kamran; Rosin, Argo; Kilter, Jako; Martins, Joao 2025 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2025

Intelligent control and diagnostics system for Tallinn trams

Rosin, Argo; Lehtla, Madis; Möller, Taavi EPE-PEMC 2004 : 11th International Power Electronics and Motion Control Conference : 2-4 September 2004, Riga, Latvia : proceedings. Vol. 6 of 7, Mechatronics, industrial drive systems, power electronics and drives in transport, EMC and design of PE systems 2004 / p. 6-185 - 6-188 : ill

Investigating different sources of flexibility in power system

Ahmadihangar, Roya; Rosin, Argo; Palu, Ivo; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 27-37
https://doi.org/10.1007/978-981-15-4627-3_3 [Journal metrics at Scopus](#) [Article at Scopus](#)

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](#)

Kas Eesti kõrgharidus teenindab toodet või klienti?

Rosin, Argo Õpetajate Leht 2015 / lk. 9 <https://opleht.ee/2015/11/kas-eesti-korgharidus-teenindab-toodet-voi-klienti/>

Kas lollikeste tüssamine või geniaalne leiutus? Hiina imeriist lubab poole väiksemaid elektriarveid.

Väli, Kristjan; Rosin, Argo Õhtuleht 2018 / lk. 4-5

Kas teaduse indekseerimine on mõistuse mõõteriist või riistapuu?

Rosin, Argo Sirp 2016 / lk. 2 <http://www.sirp.ee/s1-artiklid/c21-teadus/kas-teaduse-indekseerimine-on-moistuse-mootheriist-voi-riistapuu/>

Kergrööbassõidukite ajamid ja juhtimine

Laugis, Juhan; Lehtla, Tõnu; Joller, Jüri; Rosin, Argo; Vinnikov, Dmitri; Lehtla, Madis 2008
http://www.estar.ee/record=b2394445*est

3. liinile sõidab nutikas tramm : trammipark ja tehnikaülikool ehtasid vanast trammist pardaarvutiga sõiduki : [Argo Rosin räägib rekonstrueeritud trammist]

Peensoo, Piret; Rosin, Argo Eesti Päevaleht 2004 / 10. märts, Tallinn, lk. 1 : fot <https://epl.delfi.ee/artikkel/50978611/3-liinile-soidab-nutikas-tramm>

Kuidas analüüsida valguslahendusi?

Puusild, Harro; Rosin, Argo Äripäev 2016 / Tööstus, lk. 40-41

Kuldvasikad vs. insenerid

Rosin, Argo Postimees 2019 / lk. 15 <https://arvamus.postimees.ee/6498915/argo-rosin-eestis-kuulatakse-liiga-vahe-inseneride-arvamus>
<http://dea.digar.ee/publication/postimees>

Large scale electric vehicle integration and its impact on the Estonian power system

Drovtar, Imre; Rosin, Argo; Landsberg, Mart; Kilter, Jako IEEE PowerTech 2013, Grenoble, France, 16-20 June 2013 : proceedings 2013 / [6] p
https://www.researchgate.net/publication/261398872_Large_scale_electric_vehicle_integration_and_its_impact_on_the_Estonian_power_system

Large-scale wind integration impact on the Baltic region's electricity market participants in 2025 - with and without RES subsidies

Drovtar, Imre; Landsberg, Mart; Kilter, Jako; Rosin, Argo 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 117-121 : ill

Leveraging the machine learning techniques for demand-side flexibility - a comprehensive review

Shahid, Arqum; Ahmadihangar, Roya; Rosin, Argo; Blinov, Andrei; Korotko, Tarmo; Vinnikov, Dmitri Electric power systems research 2025 / art. 111185 <https://doi.org/10.1016/j.epsr.2024.111185>

Lifetime-oriented control strategies for hybrid energy storage systems in an islanded microgrid

Cinay, Nazli; Häring, Tobias; Rosin, Argo; Korõtko, Tarmo; Ahmadiyahangar, Roya; Biechl, Helmuth 2021 22nd IEEE International Conference on Industrial Technology (ICIT) : proceedings 2021 / p. 1-6 <https://doi.org/10.1109/ICIT46573.2021.9453617>
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Lift monitoring and process control over PLC integrated HTML server

Kruus, Reivo; Rosin, Argo; Steinbrunn, Johannes Actual Problems of Electrical Drives and Industry Automation : the 3rd Research Symposium of Young Scientists : Tallinn, Estonia, May 19-26, 2001 2001 / p. 89-92 : ill

Lighting the Baltuc [i.e. Baltic] Sea region - cities accelerate the deployment of sustainable and smart urban solutions

Rosin, Argo 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 11-12 : map https://www.ester.ee/record=b5291755*est

Lihtsad sammud elektri säästmiseks

Kodu & Ehitus : TM 2023 / lk. 40-42 : fot https://www.ester.ee/record=b1740684*est

Lihtsad sammud, kuidas kodus elektrit säästa

postimees.ee 2023 [Lihtsad sammud, kuidas kodus elektrit säästa](#)

Load control implementation in the energy intensive industry

Uuemaa, Priit; Valtin, Juhan; Kilter, Jako; Puusepp, Allan; Drovtar, Imre; Rosin, Argo 17th IEEE Mediterranean Electrotechnical Conference, Beirut, Lebanon, 13-16 April 2014 2014 / p. 213-218 : ill <https://doi.org/10.1109/MELCON.2014.6820534> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Load flow modelling in local energy community electric power systems

Korõtko, Tarmo; Drovtar, Imre; Mutule, Anna; Kairisa, Evita; Rosin, Argo 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 7 p <https://doi.org/10.1109/ENERGYCON53164.2022.9830203>

Load leveling and loss minimization in tram systems - possibilities and challenges

Vinnikov, Dmitri; Hõimoja, Hardi; Rosin, Argo; Egorov, Mikhail Технічна електродинаміка 2009 / Тематический выпуск: Силовая електроніка та енергоефективність. 1, с. 83-88 : ill

Load shifting in the existing distribution network and perspectives for EV charging - case study

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; Rosin, Argo; Mölder, Heigo 2014 5th IEEE PES Innovative Smart Grid Technologies Europe (ISGT Europe) : October 12-15, Istanbul 2014 / p. 1-6 : ill

Lucia Compendium : Sustainable and Smart Urban Lighting

Bunte, Heike; Jacob, Thomas; Haapanen, Topi; Enevold, Sif; Le Moullec, Yannick 2020 <https://digikogu.taltech.ee/et/Item/f4d273f6-e506-4b7f-b658-13bc225b6960> https://www.ester.ee/record=b5375097*est

Machine learning and deep learning techniques for residential load forecasting : a comparative analysis

Shabbir, Noman; Kütt, Lauri; Raja, Hadi Ashraf; Ahmadiyahangar, Roya; Rosin, Argo; Husev, Oleksandr 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2021 / p. 1-5 <https://doi.org/10.1109/RTUCON53541.2021.9711741>

Machine learning approach for flexibility characterisation of residential space heating

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

Madal- ja liginullenergiahooned : büroohoonete põhilahendused eskiis- ja eelprojekti

Kurnitski, Jarek; Thalfeldt, Martin; Kalamees, Targo; Voll, Hendrik; Uutar, Aivar; Rosin, Argo 2013

Maintenance analyses, control and supervision system design of light rail - an application in Estonia

Rosin, Argo; Möller, Taavi; Laugis, Juhan The 32nd Annual Conference of the IEEE Industrial Electronics Society, Conservatoire National des Arts & Metiers : Paris, France, November 7-10, 2006 2006 / ? p <https://ieeexplore.ieee.org/document/4153101>

Market mechanisms and trading in microgrid local electricity markets : a comprehensive review

Zahraoui, Younes; Korõtko, Tarmo; Rosin, Argo; Agabus, Hannes Energies 2023 / art. 2145, 52 p. : ill
<https://doi.org/10.3390/en16052145> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mathematical modeling and analysis of a battery energy storage system for microgrids = Mikrovõrkude energiasalvestussüsteemi matemaatiline modelleerimine ja analüüs

Rahmoun, Ahmad 2017 <https://digi.lib.ttu.ee/i/?9116> https://www.ester.ee/record=b4745144*est

Mathematical modeling and control strategies for islanded microgrids = Saartalitluses mikrovõrkude matemaatilise modelleerimine ja juhtimisstrateegiad

Armstorfer, Andreas 2022 <https://doi.org/10.23658/taltech.71/2022> <https://digikogu.taltech.ee/et/Item/077a5b65-1320-40ac-b105-607deaa9a900> https://www.ester.ee/record=b5528446*est

Mathematical modeling and dynamic behavior of a lithium-ion battery system for microgrid application

Rahmoun, Ahmad; Armstorfer, Andreas; Helguero Cruz, Jorge Luis; Biechl, Helmuth; Rosin, Argo 2016 IEEE International Energy Conference (ENERGYCON) : [Leuven, Belgium, 4-8 April 2016] 2016 / [6] p. : ill
<https://doi.org/10.1109/ENERGYCON.2016.7513977>

Mathematical modeling and evaluation of a microgrid demonstrator in island mode

Armstorfer, Andreas; Beg, Nauman; Rahmoun, Ahmad; Rosin, Argo; Biechl, Helmuth NEIS 2017 Conference on Sustainable Energy Supply and Energy Storage Systems : Hamburg, 21 – 22 September 2017 2018 / p. 39-44 : ill <https://neis-conference.com/wordpress/wp-content/uploads/2018/03/Tagungsband-NEIS-2017.pdf> <https://ieeexplore.ieee.org/document/8421809>

Mathematical modeling and stability analysis of a microgrid in island operation

Beg, Nauman; Armstorfer, Andreas; Rosin, Argo; Biechl, Helmuth 2018 International Conference on Smart Energy Systems and Technologies (SEST), 10-12 September, 2018, Seville, Spain : conference proceedings 2018 / 6 p. : ill
<https://doi.org/10.1109/SEST.2018.8495694>

Mathematical modeling of a battery energy storage system in grid forming mode

Rahmoun, Ahmad; Armstorfer, Andreas; Biechl, Helmuth; Rosin, Argo 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [6] p. : ill
<http://dx.doi.org/10.1109/RTUCON.2017.8125625>

Mechatronic - new profession in Estonia

Rosin, Argo; Laugis, Juhan; Lehtla, Tõnu Actual Problems of Electrical Drives and Industry Automation : the research symposium of young scientists : Tallinn, Estonia, May 31 - June 5, 1999 1999 / p. 79-81 : ill

Mechatronics in initial vocational training

Rosin, Argo; Lehtla, Tõnu; Laugis, Juhan The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 225-228 : ill

Meid valitsevad juhutarkus ja juhuelekter

Rosin, Argo; Landsberg, Mart postimees.ee 2025 [Meid valitsevad juhutarkus ja juhuelekter](#)

Merilin Metsik ja Argo Rosin: mis takistab koduse elektritarbimise juhtimist?

Metsik, Merilin; Rosin, Argo err.ee 2023 [Merilin Metsik ja Argo Rosin: mis takistab koduse elektritarbimise juhtimist?](#)

Microgrid oriented modeling of space heating system based on neural networks

Häring, Tobias; Kull, Tuule Mall; Ahmadiyahangar, Roya; Rosin, Argo; Thalfeldt, Martin; Biechl, Helmuth Journal of building engineering 2021 / art. 103150, 12 p. : ill <https://doi.org/10.1016/j.jobee.2021.103150> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

MicroGRID, ehk, väike-tarkvõrk Tallinna Tehnikaülikoolis

Rosin, Argo Elektriala 2012 / lk. 22-24 : ill https://artiklid.elnet.ee/record=b2537298*est

Mida peaks teadma automaatikasüsteemi tellija ja/või projekteerija?

Rosin, Argo Keskkonnatehnika 2007 / 1, lk. 22-23 https://artiklid.elnet.ee/record=b1020255*est

Miks liitumakud süttivad? Süüdi on ohtlikud laadijad, löökidest tekkinud mõrad, praak ja kuumus

Lõugas, Hans; Rosin, Argo Eesti Päevaleht 2015 / lk. 18 <https://epl.delfi.ee/artikkel/72276075/miks-liitumakud-syttivad-suudi-on-ohtlikud-laadijad-lookidest-tekkinud-morad-praak-ja-kuumus>

Miks peab eri valdkondade areng olema tasakaalus

Rosin, Argo Tallinna Tehnikaülikooli aastaraamat 2013 2014 / lk. 31-35

Missugused varutoiteallikad valida, et elada üle elektrikatkestused

Thalfeldt, Martin; Rosin, Argo maakodu.delfi.ee 2023 [Missugused varutoiteallikad valida, et elada üle elektrikatkestused](#)

Modeling of demand side management scenarios in apartment buildings

Vill, Kaija; Rosin, Argo; Lehtla, Madis PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 113-118 : ill
<https://doi.org/10.1109/PQ.2016.7724099>

Modelling of electricity spot price and load forecast based new energy management system for households

Lebedev, Denis; Rosin, Argo 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 222-226 : ill

Modernisation issues of diesel-electric shunting locomotive power units

Hõimoja, Hardi; Jalakas, Tanel; Rosin, Argo; Rassõlkin, Anton Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2010 / p. 57-62 : ill <https://ui.adsabs.harvard.edu/abs/2010SJRP...26...58H/abstract>

Modernisation of trams in Estonia

Laugis, Juhan; Lehtla, Tõnu; Pettai, Elmo; Joller, Jüri; Rosin, Argo; Lehtla, Madis; Vinnikov, Dmitri The 6-th International Conference on Unconventional Electromechanical and Electrical Systems : UEES'04. Vol. 2 of 3 2004 / p. 561-564

Multiport interface converter with an energy storage for nanogrids

Roasto, Indrek; Rosin, Argo; Jalakas, Tanel IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6088–6093 : ill <https://doi.org/10.1109/IECON.2018.8591104>

Muutustehirmul on suured silmad

Rosin, Argo Postimees 2019 / lk. 15 [Argo Rosin: teaduse rahastamise muutustes – hirmul on suured silmad](#)

New approaches for increasing demand-side flexibility

Ahmadihangar, Roya; Rosin, Argo; Palu, Ivo; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 51-62 https://doi.org/10.1007/978-981-15-4627-3_5 [Journal metrics at Scopus](#) [Article at Scopus](#)

A new master-slave based centralized control method for an AC microgrid with multiple distributed energy resources

Habibnia, Saba; Mahdavi, Mohammad Saeed; Gharehpetian, Gevork B.; Ahmadihangar, Roya; Rosin, Argo; Vinnikov, Dmitri IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 p. <https://doi.org/10.1109/PEDG54999.2022.9923216>

Non-intrusive load monitoring based smart energy management system for smart buildings

Jawad, Muhammad; Shabbir, Noman; Ahmadihangar, Roya; Rosin, Argo; Khaleel, T.; Tahir, W. 2024 7th International Conference on Information and Computer Technologies (ICICT) : proceedings 2024 / p. 46-50 <https://doi.org/10.1109/ICICT62343.2024.00014>

Nord Pool Spot price fluctuation analysis for energy management of household appliances

Auväart, Aivar; Rosin, Argo; Müür, Margus; Lebedev, Denis 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 91-94 : ill

NordPoolSpot price pattern analysis for households energy management [Electronic resource]

Auväart, Aivar; Rosin, Argo; Belonogova, Nadezhda; Lebedev, Denis CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 103-106 [CD-ROM] <https://www.semanticscholar.org/paper/NordPoolSpot-price-pattern-analysis-for-households-Auvaart-Rosin/8165d88c07fc5c57716b46658ce03035f9182f>

Novel quantification method of aggregated energy flexibility based on power-duration curves

Plaum, Freddy; Rosin, Argo; Ahmadihangar, Roya IEEE Access 2024 / p. 132825-132837 <https://doi.org/10.1109/ACCESS.2024.3461151> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nutikas spetsialiseerumine Kilplas : [arvamuslugu]

Rosin, Argo Mente et Manu 2013 / lk. 15 : ill https://www.ester.ee/record=b1242496*est

Nutikas tramm : [TTÜ teadlaste osalusel rekonstrueeritud trammist]

Rosin, Argo Elektriala 2004 / 2, lk. 16-18 : ill

On the concept of flexibility in electrical power systems : signs of inflexibility

Ahmadihangar, Roya; Rosin, Argo; Palu, Ivo; Azizi, Aydin Demand-side flexibility in smart grid 2020 / p. 17-26 https://doi.org/10.1007/978-981-15-4627-3_2 [Journal metrics at Scopus](#) [Article at Scopus](#)

Operation of district heat network in electricity and balancing markets with the power-to-heat sector coupling

Javanshir, Nima; Syri, Sanna; Tervo, Seela; Rosin, Argo Energy 2023 / art. 126423 <https://doi.org/10.1016/j.energy.2022.126423> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimal energy management of grid-connected multi-microgrid systems considering demand-side flexibility : a two-stage multi-objective approach

Karimi, Hamid; Gharehpetian, Gevork B.; Ahmadihangar, Roya; Rosin, Argo Electric power systems research 2023 / art. 108902 <https://doi.org/10.1016/j.epsr.2022.108902> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimal operation of district heat network in electricity and balancing markets

Javanshir, Nima; Syri, Sanna; **Tervo, Seela; Rosin, Argo** SSRN 2022 / 38 | <https://doi.org/10.2139/ssrn.4074474>

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 of energy flows in public electric transportation

Hõimoja, Hardi; Rosin, Argo 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 108-112 : ill

Output voltage regulation of isolated PV-vonnected boost converters with variable loads using converted hysteresis sliding mode controller

Zolfaghari, Mahdi; Zolfaghari, A.; **Gharehpetian, Gevork B.; Ahmadihangar, Roya; Rosin, Argo** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227386>

Overview - pumped-hydro energy storage for balancing wind energy forecast errors

Raudsaar, Urmas; Drovtar, Imre; Rosin, Argo PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 133-138 : ill

Performance and feasibility analysis of electricity price based control models for thermal storages in households

Rosin, Argo; Link, Siim; Lehtla, Madis; Martins, Joao; Drovtar, Imre; Roasto, Indrek Sustainable cities and society 2017 / p. 366-374 : ill <https://doi.org/10.1016/j.scs.2017.04.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pitfalls of machine learning methods in smart grids : a legal perspective

Antonov, Alexander; Häring, Tobias; Korõtko, Tarmo; Rosin, Argo; Kerikmäe, Tanel; Biechl, Helmuth 2021 International Symposium on Computer Science and Intelligent Controls : (ISCSIC 2021), 12-14 November 2021, Rome, Italy : proceedings 2021 / p. 248-256 <https://doi.org/10.1109/ISCSIC54682.2021.00053>

PLC based control of remote laboratory experiments

Möller, Taavi; Rosin, Argo; Hõimoja, Hardi; Müür, Margus BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 273-276 : ill

Potential Assessment of Closed Distribution System Uptake in Estonia

Agabus, Hannes; Korõtko, Tarmo; Kull, Katrin; Rosin, Argo; Palu, Ivo 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227469>

Power electronic interface converter for resource efficient buildings

Roasto, Indrek; Rosin, Argo; Jalakas, Tanel IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society : proceedings : China National Convention Center, Beijing, China, 29. October - 01. November, 2017 2017 <https://doi.org/10.1109/IECON.2017.8216617>

Power quality improvement in DG based distribution systems : A review

Nabian Dehaghani, Mitra; Korõtko, Tarmo; Rosin, Argo Renewable and Sustainable Energy Reviews 2026 / art. 116184 <https://doi.org/10.1016/j.rser.2025.116184> <https://www.sciencedirect.com/science/article/pii/S1364032125008573>

Power smoothing in smart buildings using flywheel energy storage

Plaum, Freddy; Häring, Tobias; Ahmadihangar, Roya; Rosin, Argo Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 473-477 <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161458>

Practical use of the energy management system with day-ahead electricity prices

Lebedev, Denis; Rosin, Argo 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 394-398 : ill <http://dx.doi.org/10.1109/PowerEng.2015.7266349>

Process visualization for industry automation study and training process

Ristoja, Joel; Rosin, Argo Actual Problems of Electrical Drives and Industry Automation : the 3rd Research Symposium of Young Scientists : Tallinn, Estonia, May 19-26, 2001 2001 / p. 93-95 : ill

Profitability of energy storages for household load scheduling

Lebedev, Denis; Rosin, Argo; Auväärt, Aivar 11th International Symposium "Topical Problems in the Field of Electrical and Power

Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 70-75 : ill

Programmable logic controllers teaching and using in Estonian industry

Rosin, Argo Actual Problems of Electrical Drives and Industry Automation : the research symposium of young scientists, Lohusalu, Estonia, June 1-8, 1997 1997 / p. 42-43

Programmeeritavad kontrollid

Rosin, Argo Elektriku kalender 1999 1998 / lk. 156-162: ill

Programmeeritavad kontrollid SIMATIC S7

Rosin, Argo 2000 https://www.ester.ee/record=b1354419*est

Provision of ancillary services of a nanogrid in grid connected mode

Helguero Cruz, Jorge Luis; Rosin, Argo; Biechl, Helmuth 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärda, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/PQ.2019.8818255>

Provision of reactive power by nanogrids as part of a topological power plant in a low voltage network

Helguero Cruz, Jorge Luis; Galeano, Santiago; Rosin, Argo; Biechl, Helmuth 3rd International Conference on Smart Energy Systems and Technologies (SEST), Istanbul, Turkey, 7-9 September 2020 2020 / 6 p. : ill <https://doi.org/10.1109/SEST48500.2020.9203456>

Prügist elekter ja soojus või haigused

Rosin, Argo Keskkonnatehnika 1999 / 1, lk. 25 https://artiklid.elnet.ee/record=b1000348*est

Päike, tuul, vesi ja biomass - elektri mikrotootja visalt ära tasuvad sõbrad

Rosin, Argo Inseneria 2013 / lk. 12-14, 16 : ill https://artiklid.elnet.ee/record=b2620643*est

Päikeseenergia rakendamine ja tasuvus Eestis

Rosin, Argo Eesti põlevloodusvarad ja -jätmed 2014 = Estonian combustible natural resources and wastes 2014 2014 / lk. 26-27 : ill

Püramiidita ei ole püramiidi tippu : miks peab eri valdkondade areng olema tasakaalus?

Rosin, Argo Sirp 2014 / lk. 34-35 <https://www.sirp.ee/s1-artiklid/c21-teadus/2014-03-06-13-42-37-2/>

Raskeid rahapakkisid siiski silm ei näe

Rosin, Argo Postimees 2011 / lk. 13 <https://leht.postimees.ee/395264/argo-rosin-raskeid-rahapakkisid-siiski-silm-ei-nae>

Reactive power sharing and voltage control for islanded microgrids at low voltage level

Helguero Cruz, Jorge Luis; Hutter, T.; Armstorfer, Andreas; Rosin, Argo; Biechl, Helmuth 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 133-137 : ill http://ise.elnet.ee/record=b2950045~S2*est

A real-time simulation for P2P energy trading using a distributed algorithm

Zahraoui, Younes; Korõtko, Tarmo; Rosin, Argo; Khalil Zidane, T. E.; Mekhilef, Saad IEEE Access 2024 / p. 44135-44146 <https://doi.org/10.1109/ACCESS.2024.3369899> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reliability and operation diagnostics of light rail electric transport in Estonia [Electronic resource]

Rosin, Argo; Lehtla, Tõnu; Möller, Taavi EPE-PEMC 2006 : 12th International Power Electronics and Motion Control Conference : Portorož, Slovenia, August 30 - September 1, 2006 : proceedings 2006 / p. 1751-1756 : ill. [CD-ROM]

Remote laboratory of electrical drives - PLC based control and algorithms

Müür, Margus; Möller, Taavi; Hõimoja, Hardi; Rosin, Argo 6th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology : [Kuressaare, January 12-17, 2009] 2009 / p. 128-133 : ill

Research and development of electricity auction for microgrids = Mikrovõrkude elektriüksjoni uurimine ja väljatöötamine

Korõtko, Tarmo 2019 <https://digi.lib.ttu.ee/i/?12306>

Research and development of energy storage control strategies for residential area microgrids = Energiasalvestite juhtimisstrateegiate uurimine ja arendamine elamupiirkondade mikrovõrkudele

Häring, Tobias 2022 <https://doi.org/10.23658/taltech.21/2022> <https://digikogu.taltech.ee/et/Item/f8a267fc-bc0b-43be-80d0-b10d151d4174> https://www.ester.ee/record=b5499801*est

Research and development of explicit demand flexibility management methods for ventilation systems =

Ventilatsioonisüsteemidele otsese energiapaindlikkuse juhtimismeetodite uurimine ja arendamine

Maask, Vahur 2023 <https://doi.org/10.23658/taltech.70/2023> <https://digikogu.taltech.ee/et/Item/0aa8feb6-5799-4f78-a035-a0f3d01f4127>
https://www.ester.ee/record=b5645517*est

Research and development of improved value stream mapping methodology for evaluation of demand side management possibilities in the industry sector = Väärtusahela kaardistamise metoodika uurimine ja arendamine tarbimise juhtimise võimaluste hindamiseks tööstussektoris

Melsas, Raivo 2018 <https://digi.lib.ttu.ee/i/?9925> https://www.ester.ee/record=b5051133*est

Research and development of measurement solution and methodology for assessment of light reflection from surfaces = Mõõtelahenduse ja -metoodika uurimine ning arendamine pindadelt valguse peegeldumise hindamiseks

Varjas, Toivo 2021 https://www.ester.ee/record=b5473279*est <https://digikogu.taltech.ee/et/Item/8a29147b-e21f-4273-aa1e-424bce74d20e>
<https://doi.org/10.23658/taltech.60/2021>

Research and development of quantification methods for aggregated energy flexibility = Agregeeritud energiapaindlikkuse kvantifitseerimismeetodi uurimine ja arendamine

Plaum, Freddy 2025 <https://digikogu.taltech.ee/et/Item/3e244995-0b3a-4efd-8f68-6e7e4268576f> https://www.ester.ee/record=b5746292*est
<https://doi.org/10.23658/taltech.28/2025>

Research and development of storage based energy management system for households = Energiasalvestil põhineva energiahaldussüsteemi uurimine ja väljatöötamine kodumajapidamistele

Lebedev, Denis 2017 <https://digi.lib.ttu.ee/i/?7387> https://www.ester.ee/record=b4671372*est

Residential DC load forecasting using long short-term memory network (LSTM)

Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Husev, Oleksandr; Jalakas, Tanel; Martins, Joao 2023 IEEE 11th International Conference on Smart Energy Grid Engineering (SEGE) 2023 / p. 131-136
<https://doi.org/10.1109/SEGE59172.2023.10274596>

Residential electricity consumption and loads pattern analysis

Rosin, Argo; Hõimoja, Hardi; Möller, Taavi; Lehtla, Madis PQ2010 : 7th International Conference "2010 Electric Power Quality and Supply Reliability" : June 16-18, 2010, Kuressaare, Estonia 2010 / p. 111-116 : ill

Residential energy flexibility characterization using non-intrusive load monitoring

Azizi, Elnaz; Ahmadiyahangar, Roya; Rosin, Argo; Martins, Joao; Lopes, Rui Amaral; Beheshti, M. TH.; Bolouki, Sadegh Sustainable cities and society 2021 / art. 103321, 12 p. : ill <https://doi.org/10.1016/j.scs.2021.103321> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Residential load forecasting for flexibility prediction using machine learning-based regression model

Ahmadiyahangar, Roya; Häring, Tobias; Rosin, Argo; Korõtko, Tarmo; Martins, Joao 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) 2019 / 4 p. : ill <https://doi.org/10.1109/EEEIC.2019.8783634>

Residential load forecasting using recurrent neural networks

Shabbir, Noman; Ahmadiyahangar, Roya; Raja, Hadi Ashraf; Kütt, Lauri; Rosin, Argo 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 478-481 : ill
<https://doi.org/10.1109/CPE-POWERENG48600.2020.9161565>

Review of technical solutions addressing voltage and operational challenges in a distribution grid with high penetration of intermittent RES

Astapov, Victor; Shabbir, Noman; Rosin, Argo; Kütt, Lauri; Maask, Vahur; Tiismus, Hans Energy reports 2025 / p. 1738-1760
<https://doi.org/10.1016/j.egyr.2025.08.019>

A review on realtime simulation and analysis methods of microgrids

Ahmadiyahangar, Roya; Rosin, Argo; Nabavi Niaki, Ali; Palu, Ivo; Korõtko, Tarmo International transactions on electrical energy systems 2019 / art. e12106, 16 p. : ill <https://doi.org/10.1002/2050-7038.12106> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Roheenergia juhuslikkusest aitab kasu lõigata nutikas ventilatsioonisüsteem

Rosin, Argo; Maask, Vahur novaator.err.ee 2024 [Roheenergia juhuslikkusest aitab kasu lõigata nutikas ventilatsioonisüsteem](#)

Rohepöörde ning ringmajanduse mõjud ja võimalused?

Rosin, Argo Elektriala 2021 / lk. 8-9 : fot https://www.ester.ee/record=b1240496*est

Rohkem kõrghaljastust, vähem reklaami ja fassaadivalgustust. Avalda oma arvamust: kuidas vähendada linnas valgusreostust

Paavo, Vambola pealinn.ee 2023 [Rohkem kõrghaljastust, vähem reklaami ja fassaadivalgustust. Avalda oma arvamust: kuidas vähendada linnas valgusreostust](#) KÜSITLUS Tallinn soovib välja selgitada, millised valgusobjektid linlasi enim häirivad

Saateks

Rosin, Argo Programmeeritavad kontrollid SIMATIC S7 2000 / lk. 3 https://www.ester.ee/record=b1354419*est

100% taastuvenegiat - kas rikkus või vaesus?

Rosin, Argo Tallinna Tehnikaülikooli aastaraamat 2012 2013 / lk. 26-28

Search algorithm development for novel electricity auction in microgrids

Korõtko, Tarmo; Rosin, Argo 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659820>

"Seenelkäik" hariduspoliitika

Rosin, Argo Postimees 2017 / lk. 17

Sekundaarelemendid ja -patareid, mis sisaldavad leeliseli või teisi mittehappelisi elektrolüüte. Liitumpatareid ja sekundaarelemendid kaasaskantavatele rakendustele = Secondary cells and batteries containing alkaline or other non-acid electrolytes. Secondary lithium cells and batteries for portable applications (IEC 61960:2011)

2012 https://www.ester.ee/record=b2746738*est

Short-term PV energy generation forecasting using deep learning

Shabbir, Noman; Ahmadiyahangar, Roya; Rosin, Argo; Astapov, Victor; Kilter, Jako Telematique 2022

<https://www.provinciajournal.com/index.php/telematique/article/view/813>

Short-term residential DC load forecasting using extreme gradient boost (XgBoost) algorithm

Shabbir, Noman; Husev, Oleksandr; Daniel, Kamran; Jawad, Muhammad; Rosin, Argo; Martins, Joao 2024 IEEE 18th

International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p

<https://doi.org/10.1109/CPE-POWERENG60842.2024.10604392>

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](#)

SOC estimation for Li-Ion batteries based on equivalent circuit diagrams and the application of a Kalman filter

Rahmoun, Ahmad; Biechl, Helmuth; Rosin, Argo PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply

Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 273-276 : ill

https://www.researchgate.net/publication/261507418_SOC_estimation_for_Li-ion_batteries_based_on_equivalent_circuit_diagrams_and_the_application_of_a_Kalman_filter

Solutions and active measures for wind power integration

Rosin, Argo; Drovtar, Imre; Kilter, Jako Large scale grid integration of renewable energy sources 2017 / p. 87-129 : ill

<http://dx.doi.org/10.1049/PBPO098E>

Solutions and active measures for wind power integration

Rosin, Argo; Drovtar, Imre; Kilter, Jako Large Scale Grid Integration of Renewable Energy Sources : Solutions and technologies

(2nd Ed.) 2024 / p. 91-138 <https://doi.org/10.1049/PBPO222E>

Stability analysis of a nanogrid considering communication delay time

Helguero Cruz, Jorge Luis; Rosin, Argo; Biechl, Helmuth Stability Analysis of a Nanogrid Considering Communication Delay

Time : 10th International Conference on Electrical and Electronics Engineering (ICEEE), Istanbul, Türkiye, 08-10 May 2023 2023 / p.

139-143 : ill <https://doi.org/10.1109/ICEEE59925.2023.00033>

Stability and eigenvalue sensitivity analysis of a BESS model in a microgrid

Rahmoun, Ahmad; Beg, Nauman; Rosin, Argo; Biechl, Helmuth 2018 IEEE International Energy Conference (ENERGYCON

2018) : Limassol, Cyprus 3-7 June 2018 2018 / p. 342-347 : ill <http://dx.doi.org/10.1109/ENERGYCON.2018.8398792>

Stability and eigenvalue sensitivity analysis of a BESS model in a microgrid 4 Author(s)

Rahmoun, Ahmad; Beg, Nauman; Rosin, Argo; Biechl, Helmuth 2018 5th IEEE International Energy Conference (ENERGYCON),

Limassol, Cyprus, June 3-7, 2018 : proceedings 2018 / 6 p.: ill <https://doi.org/10.1109/ENERGYCON.2018.8398792>

Stability issues with inverter loads and their control in low inertia islanded microgrids

Beg, Nauman; Biechl, Helmuth; Rosin, Argo 2020 2nd Global Power, Energy and Communication Conference (GPECOM) 2020

IEEE 2nd Global Power, Energy and Communication Conference (GPECOM) :Online Conference, 20-23 October, 2020 :

proceedings 2020 / p. 196-201 : ill <https://doi.org/10.1109/GPECOM49333.2020.9247913>

Stability issues with network impedances and its mitigation in islanded microgrids

Beg, Nauman; Biechl, Helmuth; **Rosin, Argo** NEIS 2019 : Conference on Sustainable Energy Supply and Energy Storage Systems Hamburg, 19-20 September, 2019 2019 / p. 189-194 <https://10times.com/neis-germany> <https://www.vde-verlag.de/buecher/565152/neis-2019.html>

Startup sequence for a grid connected single phase voltage source inverter

Roasto, Indrek; Jalakas, Tanel; Rosin, Argo 2017 IEEE International Symposium on Industrial Electronics (ISIE) : Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom, 19-21 June, 2017 : proceedings 2017 / p. 1787-1791 : ill <https://doi.org/10.1109/ISIE.2017.8001519>

State of charge estimation for Li-ion batteries based on equivalent circuit diagrams and the application of a Kalman filter

Rahmoun, Ahmad; Biechl, Helmuth; **Rosin, Argo** 12th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Kuressaare, Estonia, June 11-16, 2012 2012 / p. 125-128 : ill

State-of-the-Art Review of Emerging Trends in Renewable Energy Generation Technologies

Tiismus, Hans; Maask, Vahur; Astapov, Victor; Korõtko, Tarmo; Rosin, Argo IEEE Access 2025 / p. 10820 - 10843 <https://doi.org/10.1109/ACCESS.2025.3528640>

Stochastic energy management for Battery Storage System-based microgrid considering different forecasting models

Zahraoui, Younes; Korõtko, Tarmo; **Rosin, Argo; Ahmadihangar, Roya** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227451>

A study of different aspects for building a thermal model for lithium-ion cells

Rahmoun, Ahmad; Biechl, Helmuth; **Rosin, Argo** 14th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. II" : Pärnu, Estonia, January 13-18, 2014 2014 / p. 47-52 : ill

Survey of loss minimization methods in tram systems [Electronic resource]

Hõimoja, Hardi; Vinnikov, Dmitri; Lehtla, Madis; Rosin, Argo; Zakis, Janis SPEEDAM 2010 : International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Pisa, Italy, 14th-16th June, 2010 : proceedings 2010 / p. 1356-1361 : [CD-ROM] <https://ieeexplore.ieee.org/document/5544863>

Suured muutused energeetikas - meie valikutest sõltub nende mõju

Rosin, Argo TööstusEST 2022 / lk. 44-47 : ill http://www.ester.ee/record=b4481084*est <https://toostusest.ee/uudis/2022/12/16/suured-muutused-energeetikas-meie-valikutest-soltub-nende-moju/>

Tallinna valgusreostus luubi all

Rosin, Argo; Varjas, Toivo EhitusEST ehitusest.ee novaator.err.ee 2023 / lk. 20-23 <https://novaator.err.ee/1609115420/tallinna-valgusreostus-on-koroona-jarel-huppeliselt-kasvanud> <https://ehitusest.ee/uudis/2023/10/12/tallinna-valgusreostus-luubi-all/> https://www.ester.ee/record=b4442657*est

Tarbimise juhtimine : suurtarbijate koormusgraafikute salvestamine ning analüüs juhtimise rakendamise võimaluste tuvastamiseks

Rosin, Argo; Drovtar, Imre; Link, Siim; Hõimoja, Hardi; Mölder, Heigo; Möller, Taavi 2014 https://www.ester.ee/record=b4432844*est

Tarkvõrk : terminoloogia = Smart grid : terminology [Võrguteavik]

2016 http://www.ester.ee/record=b4615584*est

Teadlane: elekter läheb odavamaks, võrgutasud kallimaks

Rosin, Argo novaator.err.ee 2024 [Teadlane: elekter läheb odavamaks, võrgutasud kallimaks](https://novaator.err.ee/1609115420/teadlane-elekter-lahleb-odavamaks-vorgutasud-kallimaks)

Tehisintellekt päästab tuleviku tarkvõrgud halvast elektrist

Rosin, Argo novaator.err.ee 2021 ["Tehisintellekt päästab tuleviku tarkvõrgud halvast elektrist"](https://novaator.err.ee/1609115420/tehisintellekt-paastab-tuleviku-tarkvorgud-halvast-elektrist)

Teleservice and monitoring via internet using a webcamera and HMI software

Liiva, Anti; Rosin, Argo; Steinbrunn, Johannes Actual Problems of Electrical Drives and Industry Automation : the 3rd Research Symposium of Young Scientists : Tallinn, Estonia, May 19-26, 2001 2001 / p. 85-88 : ill

Thermal modelling of a control center for flexibility analysis in nZEB nanogrids

Häring, Tobias; Rosin, Argo; Kull, Tuule Mall; Helguero Cruz, Jorge Luis; Biechl, Helmuth 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/RTUCON51174.2020.9316568>

Toiteliiniga seotud sõidukite energiavahetuse juhtimissüsteem : EE200200424

Pettai, Elmo; Laugis, Juhan; Lehtla, Tõnu; Joller, Jüri; Rosin, Argo 2004 [https://www1.epa.ee/patent/data.asp?](https://www1.epa.ee/patent/data.asp?NroParam=P200200424&ID=X551997&NID=&offset=&HKR=)
[NroParam=P200200424&ID=X551997&NID=&offset=&HKR=](https://www1.epa.ee/patent/kirjeldus/P200200424.pdf) <https://www1.epa.ee/patent/kirjeldus/P200200424.pdf>

Traction and control of light rail vehicles

Laugis, Juhan; Lehtla, Tõnu; Joller, Jüri; Rosin, Argo; Vinnikov, Dmitri; Lehtla, Madis 2008

http://www.ester.ee/record=b2394449*est

TTÜ aastal 2020 : töögrupi vahearuanne

Ernits, Juhan-Peep; Goi, Anna; Jervan, Gert; Leibak, Alar; Randma-Liiv, Tiina; Otto, Tauno; Rosin, Argo; Sarmiento Guerin,

Maria Cecilia *Mente et Manu* 2009 / 16. veebr., lk. 4 : fot https://www.ester.ee/record=b1242496*est

TTÜ sai veebipõhise elektriagamite labori : [e-õppet]

Rosin, Argo *Keskkonnatehnika* 2009 / 1, lk. 16-20 : ill https://artiklid.elnet.ee/record=b1077198*est

Tösiroheline pööre vajab rohkem insenere

Rosin, Argo *Tööstusuudised* : [ajalehe Äripäev lisa] 2021 / Lk. 2 "[Tösiroheline pööre vajab rohkem insenere](#)"

Tösiroheliselt, mitte rohepööraselt!

Rosin, Argo *Elektriala* 2021 / lk. 5 : portr https://www.ester.ee/record=b1240496*est

Tööstuskontrollerite kasutamise koolitus

Rosin, Argo *Pingering* 1998 / 17. apr., lk. 4

Use of value stream mapping for evaluation of load conservation and peak clipping possibilities [Electronic resource]

Melsas, Raivo; Rosin, Argo 2017 IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) : 6-9 June, 2017, Milan, Italy : conference proceedings 2017 / [6] p. : ill. [DVD] <https://doi.org/10.1109/EEEIC.2017.7977549>

Using common household thermal storages to support the PV- and battery system in nearly zero energy buildings in off-grid mode

Häring, Tobias; Rosin, Argo; Biechl, Helmuth *Sustainable energy technologies and assessments* 2019 / p. 12-24 : ill

<https://doi.org/10.1016/j.seta.2019.05.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Using demand side management in energy-intensive industries for providing balancing power – the Estonian case study

Drovtar, Imre; Uuemaa, Priit; Rosin, Argo; Kilter, Jako; Valtin, Juhan 2013 IEEE Power and Energy Society General Meeting (PES), Vancouver, Canada, 21-25 July 2013 : proceedings 2013 / [5] p.: ill <https://ieeexplore.ieee.org/document/6672418>

Using of industry automation software and hardware in education and training

Rosin, Argo; Laugis, Juhan; Lehtla, Tõnu *CAX Techniques* : proceedings of the 4th International Scientific Colloquium : Bielefeld, Germany, September 13-15, 1999 1999 / p. 119-124 : ill

Using V2G technology as virtual active power filter for flexibility enhancement of HVDC systems

Zolfaghari, Mahdi; Ahmadihangar, Roya; Gharehpetian, Gevorg B.; Rosin, Argo; Plaum, Freddy *Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG)* : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 489-494 : ill <https://doi.org/10.1109/CPE-POWERENG48600.2020.9161602>

Uus metoodika parandab tarbija elektri kvaliteeti seniselt lihtsamalt

Mente et Manu 2022 / lk. 42 : fot https://www.ester.ee/record=b1242496*est

Uusi tehnikateaduste magistreid : [Priit Arro ja Avo Reinap]

Rosin, Argo *Elektriala* 2000 / lk. 32 https://artiklid.elnet.ee/record=b1003242*est

Value stream mapping for evaluation of load scheduling possibilities in a district heating plant

Melsas, Raivo; Rosin, Argo; Drovtar, Imre *Transactions on environment and electrical engineering* 2016 / p. 62-67 : ill <http://dx.doi.org/10.22149/teee.v1i3.34>

Value stream mapping for evaluation of load scheduling possibilities in a district heating plant [Electronic resource]

Melsas, Raivo; Rosin, Argo; Drovtar, Imre 2016 IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC) : 7-10 June 2016, Florence, Italy : conference proceedings 2016 / [6] p. : ill. [CD-ROM] <https://doi.org/10.1109/EEEIC.2016.7555696>

Varutoiteallikad aitavad elektrikatkestustest üle

Thalfeldt, Martin; Rosin, Argo *Maakodu* 2023 / lk. 50-52 : fot https://www.ester.ee/record=b1072539*est

Wide input voltage range operation of the series resonant DC-DC converter with bridgeless boost rectifier

Bakeer, Abualkasim Ahmed Ali; Chub, Andrii; Vinnikov, Dmitri; Rosin, Argo *Energies* 2020 / p. 4220–4237 <https://doi.org/10.3390/en13164220> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wind energy forecasting using recurrent neural networks

Shabbir, Noman; Kütt, Lauri; Jawad, Muhammad; **Ahmadihangar, Roya; Iqbal, Muhammad Naveed; Rosin, Argo** 2019 Big Data, Knowledge and Control Systems Engineering (BdKCSE) 2019 / 5 p. : ill <https://doi.org/10.1109/BdKCSE48644.2019.9010593>

Wind park cost efficiency increase through direct cooperation with demand side response provider [Online resource]

Melsas, Raivo; Rosin, Argo; Drovkar, Imre 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [5] p. : ill <https://doi.org/10.1109/RTUCON.2016.7763119>

Virtual energy storage model of ventilation system for flexibility service

Maask, Vahur; Rosin, Argo; Korõtko, Tarmo 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227482>

Voltage and reactive power control in islanded microgrids without communication link

Armstorfer, Andreas; Biechl, Helmut; **Rosin, Argo** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277219>

Üldotstarbelised plii-happeakud (ventiilreguleeritavad). Osa 1, Üldnõuded, funktsionaalsed omadused.

Katsetamismeetodid = General purpose lead-acid batteries (valve-regulated types). Part 1, General requirements, functional characteristics. Methods of test (IEC 61056-1:2002)

2012 https://www.ester.ee/record=b2746930*est

Ülikool on sild teaduse ja tööstuse vahel

Rosin, Argo Äripäev 2018 / lk. 12 [Ülikool on sild teaduse ja tööstuse vahel](#)

XgBoost based short-term electrical load forecasting considering trends & periodicity in historical data

Shabbir, Noman; Ahmadihangar, Roya; Rosin, Argo; Jawad, Muhammad; **Kilter, Jako;** Martins, Joao 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) 2023 / 6 p <https://doi.org/10.1109/ETFG55873.2023.10407926>

Об опыте Института электропривода и силовой электроники ТТУ в области модернизации электроподвижного состава Таллиннского трамвайного парка

Vinnikov, Dmitri; Boiko, Vitali; Lehtla, Madis; Rosin, Argo; Laugis, Juhan Технічна електродинаміка 2004 / 3, с. 52-55 : ил

Простые советы экономии электричества дома: можно понизить потребление в 10 раз!

rus.delfi.ee 2025 <https://dekor.delfi.ee/statja/120138514/prostye-sovety-ekonomii-elektrichestva-doma-mozhno-ponizit-potreblenie-v-10-raz>

Эксперты : очень полезные бытовые советы, как эффективно экономить электричество

Rosin, Argo rus.postimees.ee 2023 [Эксперты : очень полезные бытовые советы, как эффективно экономить электричество Простые советы экономии электричества дома: можно понизить потребление в 10 раз!](#)