

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

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

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

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

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

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

Ago Samoson: Eesti elekter ei ole Euroopa elekter [Võrguväljaanne]

Samoson, Ago err.ee 2021 "[Ago Samoson: Eesti elekter ei ole Euroopa elekter](#)."

An overview of electrical vehicle and hybrid electrical vehicle drives

Rassõlkin, Anton 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. 76-80

An ultrafast EV charging station demonstrator [Electronic resource]

Hõimoja, Hardi; Rufer, Alfred; Dziechciaruk, Grzegorz; Vezzini, Andrea SPEEDAM 2012 : Sorrento (Italy) - June 20-22, 2012 : 21st edition of the International Symposium on Power Electronics, Electrical drives, Automation and Motion 2012 / p. 1390-1395 : ill [CD-ROM] <https://ieeexplore.ieee.org/document/6264617>

Analysis of battery charger topologies for an electric vehicle

Jalakas, Tanel; Roasto, Indrek; Vinnikov, Dmitri BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 223-226 : ill

Analysis of distribution substation topologies for energy exchanging between EV and utility networks

Mägi, Marek 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. 158-167 : ill

Analysis of modelling electric transportation networks

Mägi, Marek 4th International Symposium Topical Problems of Education in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology : Kuressaare, Estonia, January 15-20, 2007 2007 / p. 73-77 : ill

Analysis of protection and control functions of low voltage part of substation for smart grid applications

Mägi, Marek; Peterson, Kristjan; Pettai, Elmo PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 297-304 : ill
<https://ieeexplore.ieee.org/document/6256243>

Application of ultracapacitors in low-voltage power supply systems of light rail vehicles

Hõimoja, Hardi; Vinnikov, Dmitri; Strzelecki, Ryszard The 2009 World Congress on Electronics and Electrical Engineering : WCEEENG'09 : April 6-9, 2009, Cairo, Egypt 2009 / [5] p

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

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

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

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

Automatic generation control of a future multisource power system considering high renewables penetration and electric vehicles: Egyptian Power System in 2035

Nour, Morsy; Magdy, Gaber; Chaves-Avila, Jose Pablo; Sanchez-Miralles, Alvaro; Petlenkov, Eduard IEEE Access 2022 / p. 51662-51681 : ill <https://doi.org/10.1109/ACCESS.2022.3174080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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

Baltimaid esindav päikeseauto vajab viimast tõuget Austraalia MMile jõudmiseks

am.ee 2025 <https://www.am.ee/node/9148>

A battery cell balancing method with linear mode bypass current control

Gallardo-Lozano, Javier; Romero-Cadaval, Enrique; **Jalakas, Tanel; Hõimoja, Hardi** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 245-248 : ill

Battery technologies in electric vehicles : improvements in electric battery packs

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

A benchmark of DC-DC converters for DC fast charging stations of electric vehicles

Mathew, Honey Mol; Arena, Gabriele; **Chub, Andrii;** De Carne, Giovanni; **Vinnikov, Dmitri;** Lukianov, Mykola 2024 9th IEEE Workshop on the Electronic Grid (eGRID) 2024 / 6 p <https://doi.org/10.1109/eGRID62045.2024.10842879>

Benefit analysis of plug-in hybrid electric vehicle technology

Kõivastik, Ivar 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 225-226

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

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

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](#)

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

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

Bolt rajas Tallinnasse tõukerataste laadimisdokid [Võrguväljaanne]

postimees.ee 2021 ["Bolt rajas Tallinnasse tõukerataste laadimisdokid "](#)

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

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

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](#)

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

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

Clutch control and vibration reduction for a hybrid electric vehicle

Vu, Trieu Minh Proceedings of the Institution of Mechanical Engineers. Part I, Journal of systems and control engineering 2012 / p. 867-874 : ill <https://journals.sagepub.com/doi/10.1177/0959651812445842?icid=int.sj-full-text.similar-articles.1>

Comodule: maailm vajab muutusteks kirglikke insenere ning ettevõtted peaksid panustama järelkasvu [Võrguväljaanne]

digi.geenius.ee 2022 ["Comodule: maailm vajab muutusteks kirglikke insenere ning ettevõtted peaksid panustama järelkasvu"](#)

Comodule'i elektritõuks on loomult maailmaparandaja [Võrguväljaanne]

Alvela, Ain toostusest.ee 2022 [Comodule'i elektritõuks on loomult maailmaparandaja](#)

Comparative analysis of electric drives met for vehicle propulsion

Vodovozov, Valery; Raud, Zoja; Lehtla, Tõnu; Rassõlkin, Anton; Lillo, Nikolai 9th International Conference on Ecological Vehicles and Renewable Energies EVER 2014 2014 / [8] p. : ill

Comparative analysis of intelligent braking controllers for electric vehicles

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Renewable energy and power quality journal 2022 / p. 55-60

<https://doi.org/10.24084/repqj20.217> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

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

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

Cai, Yicong; Buticchi, Giampaolo; Gu, Chunyang; Li, Jing; Carvalho da Silva, Edivan Laercio; Zhang, He 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023

<https://doi.org/10.1109/CPE-POWERENG58103.2023.10227395>

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

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

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

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

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

Arena, Gabriele; Chub, Andrii; Lukianov, Mykola; Strzelecki, Ryszard; Vinnikov, Dmitri; de Carne, Giovanni IEEE open journal of power electronics 2024 / p. 1573-1611 <https://doi.org/10.1109/OJPEL.2024.3466936>

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>

Condition monitoring of electrical machines and its relation to industrial internet

Belahcen, Anouar; Gyftakis, Konstantinos N.; Martinez, Javier; Climente-Alarcon, Vicente; Vaimann, Toomas 2015 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings : Castello del Valentino, Torino, Italy, 26-27 March, 2015 2015 / p. 233-241 : ill <http://dx.doi.org/10.1109/WEMDCD.2015.7194535>

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

Stoyanova-Ivanova, Angelina; Vasev, Alexander; Lilov, Peter; Petrova, Violeta; Marinov, Yordan; Stoyanova, Antonia; Ivanova, Galia; Mikli, Valdek Comptes Rendus de L'Academie Bulgare des Sciences 2019 / p. 174-181

<https://doi.org/10.7546/CRABS.2019.02.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Galkin, Ilya A.; Saltanovs, Rodions; Bubovich, Alexander; Blinov, Andrei; Pefitsis, Dimosthenis Energies 2024 / art. 893

<https://doi.org/10.3390/en17040893> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Control, supervision and operation diagnostics of light rail electric transport

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

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

Rjabtšikov, Viktor 22nd International Symposium “Topical Problems in the Field of Electrical and Power Engineering”. Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 21-22 : ill

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

A cross-country comparison of user experience of public autonomous transport

Bellone, Mauro; Ismailogullari, Azat; Kantala, Tommi; Mäkinen, Sami; Soe, Ralf-Martin; Kyrrö, Milla Aman European transport research review 2021 / art. 19

<https://doi.org/10.1186/s12544-021-00477-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Current harmonic aggregation cases for contemporary loads

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

Current harmonics of EV chargers and effects of diversity to charging load current distortions in distribution networks
Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo; Niitsoo, Jaan** 2013 International Conference on Connected Vehicles and Expo (ICCVE) : proceedings : Las Vegas, Nevada, USA, 2-6 December 2013 2013 / p. 726-731 : ill
<https://ieeexplore.ieee.org/document/6799884>

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](#)

DC fast charging of electric vehicles : a review on architecture and power conversion technology
Arena, Gabriele; **Emiliani, Pietro; Chub, Andrii; Vinnikov, Dmitri**; de Carne, Giovanni 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227492>

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

Decarbonizing city water traffic : case of comparing electric and diesel-powered ferries
Otsason, Riina; Tapaninen, Ulla Pirita Sustainability 2023 / art. 16170 <https://doi.org/10.3390/su152316170> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and implementation of dual-mode LLC resonant converter for charging 400 V and 800 V onboard plug-in electric vehicles
Vinusha, Bussa; Kalpana, R.; Kishan, Dharavath; **Chub, Andrii** 2025 IEEE 19th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2025 / 6 p <https://doi.org/10.1109/CPE-POWERENG63314.2025.11027270>

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

Design of an experimental setup to study the drives of battery electric vehicles
Vodovozov, Valery; Raud, Zoja; Lehtla, Tõnu World Academy of Science, Engineering and Technology 2013 / p. 816-823 : ill

Development and research of the traction asynchronous multimotor drive = Mitme asünkroonmootoriga veoajami arendamine ja uurimine
Boiko, Vitali; Laugis, Juhan 2008 http://www.ester.ee/record=b2373654*est

Development methodology for creating the digital twin for propulsion drive of an electric vehicle = Elektrisõiduki veoajami digitaalse kaksiku arendusmetoodika
Rjabtšikov, Viktor 2024 https://www.ester.ee/record=b5685462*est <https://digikogu.taltech.ee/et/Item/6cbd2dba-76a5-4931-a9f3-53b9d4d87c1e> <https://doi.org/10.23658/taltech.29/2024>

Development of power management and control system for an infrastructure for Plug-in Hybrid Electric Vehicle charging
Kõivastik, Ivar; Pettai, Elmo 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology. II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 86-88 : ill

Development of robust participation strategies for an aggregator of electric vehicles in multiple types of electricity markets
Liu, Weijia; **Wen, Fushuan**; Dong, ZhaoYang; **Palu, Ivo** Energy Conversion and Economics 2020 / p. 104-123
<https://doi.org/10.1049/enc2.12010>

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

The diffusion and acceptance of electric vehicles: a policy perspective comparing California and Texas
Hammoda, Basel Osama Sayed Ahmed; Sandoval, Jan Digital entrepreneurship in science, technology and innovation 2024 / p. 44-65 <https://doi.org/10.4337/9781035311422.00009>

Digital shadow of an electric vehicle-permanent magnet synchronous motor drive for real-time performance monitoring
Mohamed, Mahmoud Ibrahim Hassanin; Rjabtšikov, Viktor; Rassõlkin, Anton Digital twins and applications 2025 / 12 p
<https://doi.org/10.1049/dgt2.12024>

Digital twin development of an EV-permanent magnet synchronous motor as a virtual torque sensor
Mohamed, Mahmoud Ibrahim Hassanin 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 23-24
https://www.ester.ee/record=b5504019*est

Digital twin-based EV permanent magnet synchronous motor for condition monitoring
Mohamed, Mahmoud Ibrahim Hassanin 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 19-20 : ill
https://www.ester.ee/record=b5570906*est

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

Distributed generation implementing problems
Leoste, Margus EPE-PEMC 2004 : 11th International Power Electronics and Motion Control Conference : 2-4 September 2004, Riga, Latvia : proceedings. Vol. 5 of 7, Power supply quality, renewables, power systems and DER 2004 / p. 5-151 - 5-153 : ill

Dynamic control system for electric motor drive testing on the test bench
Rassõlkin, Anton; Kallaste, Ants; Vaimann, Toomas 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 252-257 : ill
<http://dx.doi.org/10.1109/CPE.2015.7231082>

An economical optimization for the participation of a residential microgrid in flexibility markets providing ancillary services
Alvi, Anas Abdullah; Gonzalez-Romera, Eva; Romero-Cadaval, Enrique; **Vinnikov, Dmitri**; Milanés-Montero, Maria Isabel; Barrero-Gonzalez, Fermin 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604394>

Eesti 100 % elektromobiilseks
Simson, Taavi Äripäev 2015 / lk. 15 <https://www.aripaev.ee/arvamused/2015/01/24/eesti-100-elektromobiilseks>

Eesti talv ja tootja promo: millised on tegelikud väljakutsed elektriautode akude arendamisel? Teemat avab TalTechi professor
Rassõlkin, Anton digi.geenius.ee 2024 [Eesti talv ja tootja promo: millised on tegelikud väljakutsed elektriautode akude arendamisel? Teemat avab TalTechi professor](https://digi.geenius.ee/2024/01/24/eesti-talv-ja-tootja-promo-millised-on-tegelikud-vaeljakutsed-elektriautode-akude-arendamisel-teemat-avab-taltech-i-professor/)

Eesti tudengid ehitavad uued elektrivormelid ka tänavu [Võrguväljaanne]
tehnikaamaailm.ee 2021 ["Eesti tudengid ehitavad uued elektrivormelid ka tänavu"](https://tehnikaamaailm.ee/2021/01/24/eesti-tudengid-ehitavad-uued-elektivormelid-ka-tanavu/)

Eesti tudengivormelit saadab maailmas üha suurem edu [Võrguväljaanne]
Rajasaar, Veli accelerista.com 2022 ["Eesti tudengivormelit saadab maailmas üha suurem edu"](https://accelerista.com/2022/01/24/eesti-tudengivormelit-saadab-maailmas-ua-suurem-edu/)

Eestis leiutatud neutriino
Proosi, Almar Inseneeria 2015 / lk. 18-20, 22 : fot https://artiklid.elnet.ee/record=b2725585*est

Eestis ollakse elektriautode võidukäigu suhtes pigem positiivsed [Võrguväljaanne]
Uibo, Veronika err.ee 2022 [Eestis ollakse elektriautode võidukäigu suhtes pigem positiivsed](https://err.ee/2022/01/24/eestis-ollakse-elektriautode-voidukaigu-suhtes-pigem-positiivsed/)

Eestlased kergitasid saladuskatet uudset autolt
Pullerits, Priit Postimees 2022 / Lk. 16-17 <https://dea.digar.ee/article/postimees/2022/12/10/16.1>

Eestlased ärevil : Tuleb sisepõlemismootori müügikeeld – oleme me ikka valmis? [Võrguväljaanne]
Tampere, Uku forte.delfi.ee 2022 [EESTLASED ÄREVIL | Tuleb sisepõlemismootori müügikeeld – oleme me ikka valmis?](https://forte.delfi.ee/2022/12/10/eestlased-arevil-tuleb-sisepolemismootori-muugikeeld-oleme-me-ikka-valmis-voorguvaeljaanne/)

Electric and hybrid vehicles : From smart energy storage systems to mechanical transmission
Sekhri, Even; Mohamed, Mahmoud Ibrahim Hassanin; Zequera, Rolando Antonio Gilbert; Rassõlkin, Anton Smart Electric and Hybrid Vehicles : Advancements in Materials, Design, Technologies, and Modeling 2025 / p. 71-126
<https://doi.org/10.1002/9781394225040.ch3>

Electric vehicle charger load current harmonics variations due to supply voltage level differences - case examples

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** 2014 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) : 18-20 June, 2014, Ischia, Italy : proceedings 2014 / p. 917-922 : ill

Electric vehicle electric drive signal analysis and mapping of direct control possibilities

Rassõlkin, Anton; **Sell, Raivo**; Tihonov, Kirill Международная научно-техническая конференция : АВТОМАТИЧЕСКИЙ КОНТРОЛЬ И АВТОМАТИЗАЦИЯ ПРОИЗВОДСТВЕННЫХ ПРОЦЕССОВ, 3-6 октября, 2018 г. : ПРОГРАММА КОНФЕРЕНЦИИ 2018 / p. 9 <https://www.belstu.by/Portals/0/userfiles/37/000-PROGRAMMA-konf--APP-2018.pdf>

Electric vehicles charging infrastructure demand and deployment : challenges and solutions

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

Electrical drive : performance, design and control

Vodovozov, Valery 2014 https://www.ester.ee/record=b4412000*est

Electromechanical voltage converters in electric transport of Estonia

Boiko, Vitali Actual Problems of Electrical Drives and Industry Automation : the 3rd Research Symposium of Young Scientists : Tallinn, Estonia, May 19-26, 2001 2001 / p. 74-75

Elektersõidukite sisetoiteallikaist

Vinnikov, Dmitri Elektriala 2002 / 1, lk. 12-13 : ill

Elektertranspordist

Lehtla, Tõnu Elektriku kalender 1998 1997 / lk. 139-152: ill

Elektriautode süttimisoht: kas muut või tegelikkus?

accelerista.com 2025 <https://accelerista.com/a-ja-o/tarkusetera/elektriautode-suttimisoht-kas-muut-voi-tegelikkus/>

Elektritraktoriga otse merre? Miks ka mitte?

Tiidemann, Tiit Director. Inseneeria 2017 / lk. 108-111 : fot http://www.ester.ee/record=b1519314*est
https://artiklid.elnet.ee/record=b2824268*est

Energiasäästu võimalustest Eesti elektrilises ühistranspordis

Vinnikov, Dmitri Elektriala 2000 / 1, lk. 12-13: ill https://artiklid.elnet.ee/record=b1003229*est

Energiatõhususe hindamise ja energiasalvestite arvutuse meetoodika linna elektertranspordile

Hõimoja, Hardi 2009 https://www.ester.ee/record=b2559283*est

Energy flows and losses of an electric tram

Joller, Jüri PEDC 2001 : Power Electronics Devices Compatibility : 2nd Conference : 3-5 September 2001, Zielona Gora, Poland 2001 / p. 104-110 : ill

Energy saving estimates for regenerative braking and downhill driving of battery electric vehicles

Vodovozov, Valery; **Rassõlkin, Anton**; **Lillo, Nikolai**; **Raud, Zoja** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 237-240 : ill

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

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

Estimating the harmonic distortions in a distribution network supplying EV charging load using practical source data - case example

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** 2014 IEEE Power and Energy Society General Meeting : National Harbor, MD, USA, 27-31 July 2014 2014 / [5] p. : ill

Estimation of harmonic emission of electric vehicles and their impact on low voltage residential network

Iqbal, Muhammad Naveed; **Kütt, Lauri**; **Daniel, Kamran**; **Asad, Bilal**; **Ghahfarokhi, Payam Shams** Sustainability 2021 / art. 8551 <https://doi.org/10.3390/su13158551> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estonians rather optimistic about EV revolution [Online resource]

Uibo, Veronika news.err.ee 2022 [Estonians rather optimistic about EV revolution](#)

EV battery charging converters with wide output DC voltage range

Nadeem, Mohammad Mahad; Blinov, Andrei; Vinnikov, Dmitri 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10412960>

EV-Permanent magnet synchronous motor control strategy evaluation based on digital twin concept

Mohamed, Mahmoud Ibrahim Hassanin; Rjabtšikov, Viktor 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227410>

EV-powertrain test bench for digital twin development

Rjabtšikov, Viktor; Mohamed, Mahmoud Ibrahim Hassanin; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 559-563 : ill <https://doi.org/10.1109/PEMC51159.2022.9962879>

An EV-traction inverter data-driven modelling for digital twin development

Ibrahim, Akram Abdalla Mohammed; Raja, Hadi Ashraf; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p. : ill <https://doi.org/10.1109/EPE58302.2023.10149230>

Experimental setup to explore the drives of battery electric vehicles

Rassõlkin, Anton; Vodovozov, Valery World Electric Vehicle Journal 2013 / p. 1109 - 1114 <https://doi.org/10.3390/wevj6041109>
[Journal metrics at Scopus](#) [Article at Scopus](#)

Experimental setup to explore the drives of battery electric vehicles

Rassõlkin, Anton; Vodovozov, Valery The 27th International Electric Vehicle Symposium & Exhibition : Barcelona, 17th to 20th of November 2013 2014 <https://doi.org/10.1109/EVS.2013.6914810>

Experimental verification of light electric vehicle charger multiport topology

Jalakas, Tanel; Zakis, Janis 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 415-418 : ill <http://dx.doi.org/10.1109/CPE.2015.7231111>

Feasibility investigation for residential battery sizing considering EV charging demand

Shabbir, Noman; Kütt, Lauri; Daniel, Kamran; Astapov, Victor; Raja, Hadi Ashraf; Iqbal, Muhammad Naveed; Husev, Oleksandr Sustainability 2022 / art. 1079 <https://doi.org/10.3390/su14031079> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fotod: uus tudengivormel näitas Vabaduse väljakul muskleid

Avasalu, Kert geenius.ee 2024 [Fotod: uus tudengivormel näitas Vabaduse väljakul muskleid](#)

FS Team Tallinna juht Kõivumägi: läheme Euroopast poodiumikohti tooma [Võrguväljaanne]

director.ee 2022 [FS Team Tallinna juht Kõivumägi: läheme Euroopast poodiumikohti tooma](#)

A full bridge series-series resonant IPT system optimized for charging electric vehicle batteries across an extensive range

Kishan, Dharavath; Vinod, Marupuru; **Chub, Andrii** 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604397>

Fuzzy control of energy recovery in electric vehicles with hybrid energy storage

Vodovozov, Valery; Aksjonov, Andrei; Ricciardi, Vincenzo; Raud, Zoja 2019 International Conference on Clean Electrical Power (ICCEP) 2019 / p. 345-350 : ill <https://doi.org/10.1109/ICCEP.2019.8890103>

Fuzzy gradient control of electric vehicles at blended braking with volatile driving conditions

Vodovozov, Valery; Petlenkov, Eduard; Aksjonov, Andrei; Raud, Zoja ICINCO 2020 : 17th International Conference on Informatics in Control, Automation and Robotics, July 7-9, 2020 : online 2020 / p. 250-261 <http://wikicfp.com/cfp/servlet/event.showcfp?eventid=97093©ownerid=45217>

Fuzzy logic 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](#)

Fuzzy logic control of clutch for hybrid vehicle

Vu, Trieu Minh 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. 26-30 : ill

Grid reactive power compensation by using electric vehicles

Gallardo-Lozano, Javier; Romero-Cadaval, Enrique; Minambres-Marcos, Victor; **Vinnikov, Dmitri; Jalakas, Tanel; Hõimoja, Hardi** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 19-24 : ill

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

Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; **Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas** Machines 2022 / art. 1029 <https://doi.org/10.3390/machines10111029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 levels of domestic and electrical vehicle loads in residential distribution networks

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

Health and charge indicators for battery energy storage systems in electric vehicles applications

Zequera, Rolando Antonio Gilbert; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 427-432 <https://doi.org/10.1109/PEMC51159.2022.9962858>

High-efficiency single-stage onboard charger for electrical vehicles

Zinchenko, Denys; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri; Verbytskyi, Ievgen; Bayhan, Sertac IEEE Transactions on Vehicular Technology 2021 / p. 12581-12592 : ill <https://doi.org/10.1109/TVT.2021.3118392> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Identification and characterization of modulation scheme in an EV-PMSM control strategy for digital twin modeling

Mohamed, Mahmoud Ibrahim Hassanin; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants Diagnostika 2024 - 2024 International Conference on Diagnostics in Electrical Engineering, Proceedings 2024 / 5 p <https://doi.org/10.1109/Diagnostika61830.2024.10693927>

IEEE Industrial Electronics Society students and young professionals just after the pandemic time [students and young professionals news]

Jasinski, Marek; Turzynski, Marek; **Vinnikov, Dmitri; Chub, Andrii** IEEE industrial electronics magazine 2022 / p. 89-100 <https://doi.org/10.1109/MIE.2022.3212247>

Implementation of protection features for a modular bidirectional solid-state battery disconnecter

Dsa, Daniel; Chinnusamy, Abhinav; Banavath, Satish Naik; **Carvalho da Silva, Edivan Laercio** IEEE journal of emerging and selected topics in power electronics 2024 <https://doi.org/10.1109/JESTPE.2024.3502157>

Industrial and technological applications of power electronics systems

2021 <https://doi.org/10.3390/books978-3-0365-0823-8>

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

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

Integration of electric vehicles with microgrid

Kõivastik, Ivar 7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum 2011 / p. 44-47 : ill

Intelligent traction control for electric vehicles using hyperspectral imaging

Valme, Daniil 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 15-16 : ill https://www.ester.ee/record=b5570906*est

Isejuhtiv elektrivormel FEST24 näitas Vabaduse väljakul oma võimeid

postimees.ee 2024 [Isejuhtiv elektrivormel FEST24 näitas Vabaduse väljakul oma võimeid](#)

Isejuhtivate busside testimiskeskond Eestisse

Vörklaev, Mart Postimees 2020 / Lk. 15 : portr <https://dea.digar.ee/article/postimees/2020/10/21/14.6>

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](#)

JUHIGA VÕI JUHITA: tudengite elektrivormel sai valmis

postimees.ee 2024 [JUHIGA VÕI JUHITA: tudengite elektrivormel sai valmis](#)

Jõuelektroonik: akupõlenguid õhutab rutiinist toituv turvatunne

Blinov, Andrei novaator.err.ee 2024 [Jõuelektroonik: akupõlenguid õhutab rutiinist toituv turvatunne](#)

Ka elektrilisena parimatest parim : [Tallinna Tehnikaülikooli ja Tallinna Tehnikakõrgkooli tudengite elektrivormel FEST14]

Pipar, Margus Autoleht 2014 / lk. 46-47 : ill https://artiklid.elnet.ee/record=b2681516*est

Kas elektriauto ikka on keskkonnasõbralikum kui tavaline auto?!

Kunnus, Mihkel postimees.ee 2023 / Lk. 14-15 [Kas elektriauto ikka on keskkonnasõbralikum kui tavaline auto?](#)
<https://dea.digar.ee/article/postimees/2023/11/23/13.2>

Kavalam on kogu elektrijaamale rattad alla panna

Samoson, Ago postimees.ee 2024 [Kavalam on kogu elektrijaamale rattad alla panna](#)

Kergrööbassõidukite ajamid ja juhtimine

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

Kriitilised toorained mõjutavad auto arengut

Kübarsepp, Jakob Postimees 2023 / Lk. 8 <https://dea.digar.ee/article/postimees/2023/12/02/9.3>

Kristjan Maruste: elektritõukerataste ohtudest heietamine on kahetsusväärne asendustegevus

postimees.ee 2023 <https://majandus.postimees.ee/7767952/ak-fookus-kristjan-maruste-elektritõukerataste-ohtudest-heietamine-on-kahetsusvaarne-asendustegevus>

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

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

Maailma kiireim tudengivormelitiim esitleb uut sõidukit FEST25

postimees.ee 2025 <https://haridus.postimees.ee/8270991/maailma-kiireim-tudengivormelitiim-esitleb-uut-soidukit-fest25>

Madalpingelised elektripaigaldised. Osa 7-722, Nõuded eripaigaldistele ja -paikadele ; Elektrisõidukite toide [Võrguteavik] = Low-voltage electrical installations. Part 7-722, Requirements for special installations or locations ; Supplies for electric vehicles (IEC 60364-7-722:2018, modified)

2019 https://www.ester.ee/record=b5251715*est

Madalpingelised elektripaigaldised. Osa 7-722, Nõuded eripaigaldistele ja -paikadele. Elektrisõidukite toide [Võrguteavik] = Low-voltage electrical installations. Part 7-722, Requirements for special installations or locations. Supplies for electric vehicles (IEC 60364-7-722:2015, modified)

2016 http://www.ester.ee/record=b4616843*est

Management of braking energy in electric vehicles using reinforcement learning

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2023 International Conference on Clean Electrical Power (ICCEP) 2023 / p. 559-564 <https://doi.org/10.1109/ICCEP57914.2023.10247359>

Microprocessor based traction control system and diagnostic algorithms for the traction drive TVM1

Lehtla, Madis Symposium "Topical Problems of Education in the Field of Electrical and Power Engineering" : Kuressaare, Estonia, January 19-24, 2004 2004 / p. 58-61 : ill

Microprocessor control systems of light rail vehicle traction drives

Lehtla, Madis 2006 https://www.ester.ee/record=b2170586*est

Minister Järvan: riigi roll on ettevõtlusel mitte jalus olla [Võrguväljaanne]

Pau, Aivar forte.delfi.ee 2022 [Minister Järvan: riigi roll on ettevõtlusel mitte jalus olla](#)

Modeling and model predictive control for hybrid electric vehicles

Vu, Trieu Minh; Rashid, A. A. International Journal of Automotive Technology 2012 / p. 477-485 : ill
https://www.researchgate.net/publication/257777158_Modeling_and_model_predictive_control_for_hybrid_electric_vehicles

Modeling and simulation of dual clutch transmission and hybrid electric vehicles

Abouelkheir, Moustafa; Vu, Trieu Minh Proceedings of the 11th International Conference of DAAAM Baltic Industrial Engineering : 20-22th April 2016, Tallinn, Estonia 2016 / p. 168-174 : ill <http://innomet.ttu.ee/daaam/>

Modeling, analysis, and implementations of charging systems for vehicle electrification

Vinnikov, Dmitri; Blinov, Andrei; Rathore, Akshay Kumar Vehicle electrification in modern power grids : Disruptive perspectives on power electronics technologies and control challenges 2024 / p. 75-99 <https://doi.org/10.1016/B978-0-443-13969-7.00004-7>

Modelling a blended braking system of electric vehicles

Vodovozov, Valery; Aksjonov, Andrei 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. 16-22 : ill
http://ise.elnet.ee/record=b2949856~S2*est

Modelling of a versatile vehicle braking system with a fuzzy PID torque controller

Vodovozov, Valery; Raud, Zoja; Aksjonov, Andrei; Petlenkov, Eduard 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/BEC49624.2020.9276798>

Modelling of energy recovery in electric vehicles for various braking scenarios on changing road surfaces

Vodovozov, Valery; Raud, Zoja Renewable energy and power quality journal 2020 / p. 178-183 <https://doi.org/10.24084/repqj18.264>
[Journal metrics at Scopus](#) [Article at Scopus](#)

Modernization of electrical transport systems in Estonia

Laugis, Juhan; Lehtla, Tõnu; Joller, Jüri; Boiko, Vitali; Vinnikov, Dmitri; Lehtla, Madis 10th International Power Electronics and Motion Control Conference : EPE-PEMC 2002, Cavtat & Dubrovnik : 9-11 September 2002, Cavtat & Dubrovnik, Croatia 2002

Modified Q-Z-Source DC Circuit Breaker for Next-Generation Electric Aircrafts

Aditya, P.; Venkata Raghavendra, I.; Banavath, Satish Naik; **Chub, Andrii;** Song, Xiaoqing; **Vinnikov, Dmitri;** Wang, Fred 2023 IEEE Applied Power Electronics Conference and Exposition (APEC) 2023 / p. 1049-1056
<https://doi.org/10.1109/APEC43580.2023.10131532> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Modular groups in Robot Cell. Some principles of a choice of the electric drive

Grebenjuk, Andrei Actual Problems of Electrical Drives and Industry Automation : the 3rd Research Symposium of Young Scientists : Tallinn, Estonia, May 19-26, 2001 2001 / p. 103-106 : ill

Modular MV naturally balanced converter with high-frequency isolation and no DC-Link capacitor for EV fast charging

Blinov, Andrei; Chub, Andrii; Guler, Naki; Bayhan, Sertac; Parsa, Leila; **Vinnikov, Dmitri** IEEE Transactions on Transportation Electrification 2024 / 9 p <https://doi.org/10.1109/TTE.2024.3399329>

Multi-objective planning of electric vehicles charging in distribution system considering priority-based vehicle-to-grid scheduling

Singh, Praveen Prakash; Das, Soumyabrata; **Wen, Fushuan; Palu, Ivo;** Singh, Asheesh K.; Thakur, Padmanabh Swarm and evolutionary computation 2023 / art. 101234, 16 p. : ill <https://doi.org/10.1016/j.swevo.2023.101234> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Neural network control of green energy vehicles with blended braking systems

Vodovozov, Valery; Petlenkov, Eduard; Aksjonov, Andrei; Raud, Zoja Renewable Energy & Power Quality Journal 2021 / p. 344-349 <https://doi.org/10.24084/repqj19.291> [Journal metrics at Scopus](#) [Article at Scopus](#)

Neural network-based model reference control of braking electric vehicles

Vodovozov, Valery; Aksjonov, Andrei; **Petlenkov, Eduard; Raud, Zoja** Energies 2021 / art. 2373 <https://doi.org/10.3390/en14092373>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

NFT-based life cycle management for batteries of e-cars

Prause, Gunnar; Gerlitz, Laima Transport and telecommunication journal 2024 / p. 378-391 <https://doi.org/10.2478/tjt-2024-0028>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Novel concept of universal AC/DC-DC onboard battery charger for electric vehicles

Mohseni, Parham; Husev, Oleksandr; Vinnikov, Dmitri; Kasper, Matthias; Deboy, Gerald 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 6 p <https://doi.org/10.1109/ICDCM63994.2025.11144698>

A novel human-machine interface evaluation methodology for passenger vehicles

Aksjonov, Andrei 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. 72–78 : ill
http://www.ester.ee/record=b4763182*est http://ise.elnet.ee/record=b2950019~S2*est

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; Rassõlkin, 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](#)

Nutikas mikrovõrk annab alakasutatud tänavavalgustustaristule uue elu

Alvela, Ain novaator.err.ee 2023 [Nutikas mikrovõrk annab alakasutatud tänavavalgustustaristule uue elu](#)

Oil spray cooling with hairpin windings in high-performance electric vehicle motors

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; **Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar;** Cardoso, Antonio J. Marques 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 5 p
<https://doi.org/10.1109/IWED52055.2021.9376390>

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](#)

Optimal operation of multi-energy microgrids in presence of hydrogen fueling stations and electric vehicle lots

Mahmoudnezhad, Fayeze 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 109-110 : ill
https://www.ester.ee/record=b5504019*est

Optimizing EV driving-recharge time ratio a under limited grid connection

Tsimomeny, M.; **Hõimoja, Hardi** 7th IET International Conference on Power Electronics, Machines and Drives (PEMD 2014) : Manchester, United Kingdom, 8–10 April 2014. Vol. 2 2014 / p. 903-908 : ill

Overview of battery energy storage systems readiness for digital twin of electric vehicles

Zequera, Rolando Antonio Gilbert 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 103-104
https://www.ester.ee/record=b5504019*est

Overview of battery energy storage systems readiness for digital twin of electric vehicles

Zequera, Rolando Antonio Gilbert; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants IET Smart Grid 2023 / p. 5-16
<https://doi.org/10.1049/stg2.12101> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overview of digital twin platforms for EV applications

Mohamed, Mahmoud Ibrahim Hassanin; Rjabtšikov, Viktor; Zequera, Rolando Antonio Gilbert Sensors 2023 / art. 1414, 15 p. : ill <https://doi.org/10.3390/s23031414> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overview on digital twin for autonomous electrical vehicles propulsion drive system

Mohamed, Mahmoud Ibrahim Hassanin; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants Sustainability 2022 / art. 601
<https://doi.org/10.3390/su14020601> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overview on Energy Management of Electric Vehicles with Intelligent Braking Controllers

Vodovozov, Valery; Raud, Zoja 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), November 15-17, 2021 : conference proceedings 2022 / 4 p. : ill
<https://doi.org/10.1109/RTUCON53541.2021.9711715>

Permanent magnet synchronous machine control performance and analysis for environment-friendly electric vehicle applications

Sardar, Muhammad Usman; Yaqoob, Muhammad; Akbar, Siddique; Shah, Syed Imran Ahmad; Shahid, Muhammad Usama; Mutloob, Tayyaba Engineering Proceedings 2023 / art. 7, p. 1–6 <https://doi.org/10.3390/engproc2023046007> [Journal metrics at Scopus](#) [Article at Scopus](#)

Power Electronics and Energy Management for Battery Storage Systems

2022 <https://doi.org/10.3390/books978-3-0365-5278-1>
https://www.mdpi.com/journal/energies/special_issues/peem_for_battery_storage_systems

Power factor correction with vehicle-to-grid STATCOM implementation

Rassõlkin, Anton; Kallaste, Ants; Hõimoja, Hardi PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 177-180 : ill

Power interfaces and storage selection for an ultrafast EV charging station

Hõimoja, Hardi; Vasiladiotis, M.; Rufer, A. PEMD 2012 : Power Electronics, Machines and Drives : 27-29 March 2012, University Bristol, UK : [proceedings] 2012 / 6 p. : ill

Power quality issues concerning photovoltaic generation and electrical vehicle loads in distribution grids
Niitsoo, Jaan; Taklaja, Paul; Palu, Ivo; Klüss, Joni Smart grid and renewable energy 2015 / p. 164-177 : ill

Prediction of optimal location for electric vehicle charging stations

Singh, Praveen Prakash 22nd International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Pärnu, Estonia, August 23-26, 2023 2023 / p. 81-82 : ill
https://www.ester.ee/record=b5570906*est

Preface to "Industrial and Technological Applications of Power Electronics Systems"

Strzelecki, Ryszard; **Demidova, Galina; Vinnikov, Dmitri** Industrial and Technological Applications of Power Electronics Systems 2021 / p. ix <https://doi.org/10.3390/books978-3-0365-0823-8>

Professor: elektriautodega rohepöördeni ei jõua, sest selleks pole piisavalt muldmetalle

Sooväli-Sepping, Helen pealinn.ee 2023 [Professor: elektriautodega rohepöördeni ei jõua, sest selleks pole piisavalt muldmetalle](https://www.ester.ee/record=b5570906*est)

Profit maximization by integrating demand response in multiple VPPs optimal scheduling

Asim Amin, M.; Suleman, Ahmad; **Korõtko, Tarmo;** Aziz, Saddam; **Naseer, Muhammad Usman;** Ahmad, Nisar 2022 International Conference on Electrical Engineering and Sustainable Technologies (ICEEST), 14th-15th December, 2022, Lahore, Pakistan : proceedings 2022 / 6 p <https://doi.org/10.1109/ICEEST56292.2022.10077867>

Projekt AIRSHIP soovib välja arendada täiselektrilise ja mehitamata lauguri

Meremees : Eesti merendusajakiri = Estonian maritime magazine 2024 / lk. 8-9 : ill https://www.ester.ee/record=b4646644*est
https://issuu.com/ajakirimeremees/docs/meremees_nr_326_issuu

Propulsion drive system data measurement for digital twin test bench validation

Rjabtšikov, Viktor 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 25-26 : ill https://www.ester.ee/record=b5504019*est

Propulsion drives and control algorithms of electrical vehicles

Mohamed, Mahmoud Ibrahim Hassanin; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants Handbook of power electronics in autonomous and electric vehicles 2024 / p. 139-159 <https://doi.org/10.1016/B978-0-323-99545-0.00009-9>

Quasi single-stage three-phase filterless converter for EV charging applications

Blinov, Andrei; Zinchenko, Denys; Rabkowski, Jacek; Wrona, Grzegorz; **Vinnikov, Dmitri** IEEE Open Journal of Power Electronics 2022 / p. 51-60 : ill <https://doi.org/10.1109/OJPEL.2021.3134460> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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]

Research and development of trial instrumentation for electric propulsion motor drives = Elekterveoajamite katsekeskkonna uurimine ja arendamine

Rassõlkin, Anton 2014 https://www.ester.ee/record=b3091498*est

Research of energy flows and losses in an electric tram

Joller, Jüri Actual Problems of Electrical Drives and Industry Automation : the 3rd Research Symposium of Young Scientists : Tallinn, Estonia, May 19-26, 2001 2001 / p. 71-73 : ill

Research on the performances and parameters of interior PMSM used for electric vehicles

Liu, Xiangdong; Chen, Hao; Zhao, Jing; **Belahcen, Anouar** IEEE transactions on industrial electronics 2016 / p. 3533-3545 : ill
<https://doi.org/10.1109/TIE.2016.2524415>

Reserves for regenerative braking of battery electric vehicles

Raud, Zoja; Vodovozov, Valery; Lillo, Nikolai; Rassõlkin, Anton PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 189-194 : ill

A review of harmonic detection, suppression, aggregation and estimation techniques

Daniel, Kamran; Kütt, Lauri; Iqbal, Muhammad Naveed; Shabbir, Noman; Raja, Hadi Ashraf; Sardar, Muhammad Usman Applied sciences 2024 / art. 10966 <https://doi.org/10.3390/app142310966> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A review of optimal control methods for energy storage systems - energy trading, energy balancing and electric vehicles

Machlev, Ram; Zargari, Noa; Chowdhury, N; **Belikov, Juri**; Levron, Yoash Journal of energy storage 2020 / art. 101787, 16 p
<https://doi.org/10.1016/j.est.2020.101787> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A review of the effects of electric vehicle charging on distribution network operation and power quality

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** Electrical and Control Technologies : proceedings of the 8th International Conference on Electrical and Control Technologies : ECT-2013 2013 / p. 162-167

A review of the harmonic and unbalance effects in electrical distribution networks due to EV charging

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** 12th International Conference on Environment and Electrical Engineering (EEEIC) : 5-8 May 2013 2013 / [6] p

Review on Braking Energy Management in Electric Vehicles

Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** Energies 2021 / art. 4477 <https://doi.org/10.3390/en14154477> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robotlaugurite kasutuselevõtu õiguslikud aspektid

Kerem, Kristin Meremees : Eesti merendusajakiri = Estonian maritime magazine 2024 / lk. 7-9

https://www.ester.ee/record=b4646644*est https://issuu.com/ajakirimeremees/docs/meremees_nr_326_issuu

Robotlaugurite kasutuselevõtu õiguslikud aspektid Eestis

Kerem, Kristin Teejuht : maal, vees ja õhus : Transpordiameti digiajakiri 2024 / lk. 25-27 : fot

<https://digiajakiri.transpordiamet.ee/view/549318691/26/> <https://digikogu.taltech.ee/et/Item/b6fc0be5-2839-4994-8201-463846a5e35c>

Rohepööre tasuks ära teha ka inimtekkelise kliimamuutusega

Kurnitski, Jarek Postimees 2022 / Lk. 13 https://dea.digar.ee/article/postimees/2022/12/01/13.8_Rohepööre_tasuks_ära_teha_ka_inimtekkelise_kliimamuutusega

Simulation study of electric vehicles at fuzzy PID control of braking torque

Vodovozov, Valery; **Petlenkov, Eduard**; Aksjonov, Andrei; **Raud, Zoja** Informatics in Control, Automation and Robotics : 17th International Conference, ICINCO 2020 Lieusaint - Paris, France, July 7–9, 2020, Revised Selected Papers 2022 / p. 261–290
https://doi.org/10.1007/978-3-030-92442-3_15 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Simulation study of processes in electric vehicles under braking control based on reinforcement learning

Vodovozov, Valery; **Raud, Zoja**; **Petlenkov, Eduard** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227478>

Single-stage series-connected isolated converters for MVAC to DC applications

Blinov, Andrei; **Chub, Andrii**; **Vinnikov, Dmitri**; Bayhan, Sertac Workshop on Smart Grid and Renewable Energy (SGRE) 2022 / 4 p <https://doi.org/10.1109/SGRE53517.2022.9774185>

Slip control upgrades for light-rail electric traction drives

Lehtla, Madis; **Hõimoja, Hardi** EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 61 <https://ieeexplore.ieee.org/document/4635492>

Slip control upgrades for light-rail electric traction drives [Electronic resource]

Lehtla, Madis; **Hõimoja, Hardi** EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 1604-1607 : ill. [CD-ROM]
<https://ieeexplore.ieee.org/document/4635492/keywords> <https://doi.org/10.1109/EPEPEMC.2008.4635492>

Slow adoption of EVs under a weak policy regime: Future scenarios of EVs development and diffusion in Iran

Fartash, Kiarash; Ghorbani, Amir; **Bagheri, Mohammadhossein** Futures 2023 / art. 103196

<https://doi.org/10.1016/j.futures.2023.103196> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solaride purustas Hooandja kõigi aegade rekordi

Hansar, Helina postimees.ee 2023 [Solaride purustas Hooandja kõigi aegade rekordi](#)

Solaride'i päikeseauto on Austraaliaks valmis

Sepp, Anna-Maria postimees.ee 2023 [Solaride'i päikeseauto on Austraaliaks valmis](#)

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/PBQ0222E>

Spatial representation of self-driving vehicle for virtual entity of digital twin

Rassõlkin, Anton; Maksimkins, Pavels; Stupans, Andrejs; **Rjabtšikov, Viktor**; Šenfels, Armands; **Kuts, Vladimir** Computer 2024 / p. 58-66 <https://doi.org/10.1109/MC.2023.3319108> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Speed control of electric vehicle propulsion with autotuning at changeable driving modes and road conditions

Aksjonov, Andrei; Nedoma, Pavel; **Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard** 2019 IEEE International Conference on Mechatronics (ICM) : proceedings 2019 / p. 584-589 : ill <https://doi.org/10.1109/ICMECH.2019.8722909>

Starting your own pilot – Sohjoa Baltic. The Roadmap to automated electric shuttles in public transport

2020 <http://urn.fi/URN:ISBN:978-952-328-246-9>

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](#)

Study of e-vehicle drive behaviour under changeable control

Rassõlkin, Anton; Vodovozov, Valery; Raud, Zoja Digest book and electronic proceedings : 54th International Scientific Conference of Riga Technical University : Section of Power and Electrical Engineering 2013 / p. 13.1-13.5 : ill

TalTech researchers developing a digital twin for propulsion drive of autonomous electric vehicle

Rassõlkin, Anton researchinestonia.eu 2021 [TalTech researchers developing a digital twin for propulsion drive of autonomous electric vehicle](#)

TalTechi tudengid näitavad enda loodud elektrilist veetiivaga surfilauda

postimees.ee 2023 [TalTechi tudengid näitavad enda loodud elektrilist veetiivaga surfilauda](#)

TalTechi vilistlaste ettevõtte paiskas müüki esimese Eestis toodetud e-tõukeratta

Mente et Manu 2020 / lk. 13 : fot https://www.ester.ee/record=b1242496*est

Tartus saab nädala lõpuni tutvuda maailma kergeima elektrilise veetiivaga surfilauaga

lounaestlane.ee 2024 [Tartus saab nädala lõpuni tutvuda maailma kergeima elektrilise veetiivaga surfilauaga](#)

The technology for low-volume manufacturing of fenders for an advanced light electric vehicle

Pääsuke, Kaarel; Pohlak, Meelis Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 210-215 : ill

A three-phase unfolding-based PFC topology with two inductors for electric vehicles battery charging

Mohseni, Parham; Husev, Oleksandr; Vinnikov, Dmitri; Matiushkin, Oleksandr; Vosoughi Kurdkandi, Naser 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-11, 2023 : conference proceedings 2023 / 6 p <https://doi.org/10.1109/RTUCON60080.2023.10413182>

A Toolbox to design inverters for automotive applications

Vodovozov, Valery; Raud, Zoja; Lehtla, Tõnu Recent Researches in Applications of Electrical and Computer Engineering : [proceedings of the AEE'12, ACE'12, CSS'12 : Vouliagmeni Beach, Athens, Greece, March 7-9, 2012] 2012 / p. 190-195 : ill https://www.researchgate.net/publication/262257028_A_toolbox_to_design_inverters_for_automotive_applications

Torque control in blended antilock braking systems of electric vehicles [Online resource]

Vodovozov, Valery; Petlenkov, Eduard; Raud, Zoja; Aksjonov, Andrei BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <https://doi.org/10.1109/BEC.2018.8600978>

Towards optimal placement and runtime migration of time-sensitive services of connected and automated vehicles

Elgarhy, Osama Mohamed Mostafa; Le Moullec, Yannick; Reggiani, Luca; Azeem, Muhammad Moazam; Taleb, Tarik; **Alam, Muhammad Mahtab** IEEE Open Journal of Vehicular Technology 2024 / p. 13-33 <https://doi.org/10.1109/OJVT.2024.3496583>

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

Trajectory phase-plane method - based analysis of stability and performance of a fuzzy logic controller for an anti-lock braking system

Aksjonov, Andrei; Ricciardi, Vincenzo; **Vodovozov, Valery**; Augsburg, Klaus 2019 IEEE International Conference on Mechatronics (ICM) : proceedings 2019 / p. 602-607 : ill <https://doi.org/10.1109/ICMECH.2019.8722831>

Travel activity based stochastic modelling of load and charging state of electric vehicles

Iqbal, Muhammad Naveed; Kütt, Lauri; Lehtonen, Matti; Millar, Robert John; Püvi, Verner; **Rassõlkin, Anton; Demidova, Galina** Sustainability 2021 / art. 1550, 14 p. : ill <https://doi.org/10.3390/su13031550> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tudengite ehitatud elektrivormel teeb esimese demosõidu

Postimees 2022 / Lk. 9 <https://dea.digar.ee/article/postimees/2022/06/06/9.3>

Tudengitiim arendab esimest korda isejuhtivat elektrivormelit

Virumaa Teataja 2023 / Lk. 5 <https://dea.digar.ee/article/virumaateataja/2023/05/16/7.7>

Tudengivormel saavutas Saksamaal pingelises võistluses teise koha

postimees.ee 2024 [Tudengivormel saavutas Saksamaal pingelises võistluses teise koha](#)

Tudengivormeli meeskond on tänavu teinud suure arenguhüppe

digi.geenius.ee 2023 [Tudengivormeli meeskond on tänavu teinud suure arenguhüppe](#)

Tudengivormelid sõidavad sel nädalavahetusel võidu Aravete kardirajal [Võrguväljaanne]

digi.geenius.ee 2022 [Tudengivormelid sõidavad sel nädalavahetusel võidu Aravete kardirajal](#)

Tulevikuga kohanemiseks peab linn autostumisele piiri panema [Võrguväljaanne]

Voltri, Johannes novaator.err.ee 2021 / fot [Tulevikuga kohanemiseks peab linn autostumisele piiri panema](#)

Tänavatele jõuavad esimesed Eestis toodetud kaubarattad Vok Bikes [Võrguväljaanne]

Tähepõld, Tarmo auto.geenius.ee 2021 ["Tänavatele jõuavad esimesed Eestis toodetud kaubarattad Vok Bikes"](#)

Tänavavalgustus aitab peagi elektriautosid laadida

Raudmäe, Egeli Tartu Postimees 2023 / Lk. 3 <https://dea.digar.ee/article/tartupostimees/2023/09/26/6.1>

Unsettled impacts of integrating automated electric vehicles into a mobility-as-a-service ecosystem and effects on traditional transportation and ownership

Taiber, Joachim; Sell, Raivo 2019 <https://doi.org/10.4271/EPR2019004>

Using electric vehicles to enhance power supply resilience of buildings during emergencies and critical situations

Carvalho da Silva, Edivan Laercio; Chub, Andrii; Blinov, Andrei; Vinnikov, Dmitri; Kyselova, Anna 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830812>

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

Zolfaghari, Mahdi; Ahmadihangar, Roya; Gharehpetian, Gevork 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>

Uudne laadija võimaldaks odavamalt elektriautode laadimisvõrku tihendada [Võrguväljaanne]

Oidermaa, Jaan-Juhan novaator.err.ee 2022 [Uudne laadija võimaldaks odavamalt elektriautode laadimisvõrku tihendada](#)

Uued materjalid annavad päikeseautodele elulootuse

Sibinski, Maciej novaator.err.ee 2024 [Uued materjalid annavad päikeseautodele elulootuse](#)

Uus tudengivormel on valmis ja läheb suvel Euroopasse kõrgeid tiitleid püüdma

digi.geenius.ee 2024 [Uus tudengivormel on valmis ja läheb suvel Euroopasse kõrgeid tiitleid püüdma](#)

Uus tudengivormel sõidab nüüd nii juhiga kui juhita

Einama, Kaido postimees.ee 2023 [Uus tudengivormel sõidab nüüd nii juhiga kui juhita](#)

Uus tudengivormel teeb esimese avaliku demosõidu Vabaduse väljakul

Tähepõld, Tarmo auto.geenius.ee 2024 [Uus tudengivormel teeb esimese avaliku demosõidu Vabaduse väljakul](#)

Uute juhtidega jätkab Solarstone päikeseauto ehitamise toetamist

Koorep, Sigrid sakala.postimees.ee 2024 [Uute juhtidega jätkab Solarstone päikeseauto ehitamise toetamist](#)

Validation of an EV-permanent magnet synchronous motor model based on analytical dynamic approach

Mohamed, Mahmoud Ibrahim Hassanin; Rjabtsjikov, Viktor; Rassõlkin, Anton; Vaimann, Toomas; Kallaste, Ants 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 2384-2390 <https://doi.org/10.1109/ICEM51905.2022.9910755>

Vehicle energy management system: a survey

Maradey Lázaro, Jessica Gissella; Rincón Quintero, Arly Dario; Garrido Silva, Gianina; Zequera, Rolando Antonio Gilbert 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227455>

Wide output voltage range isolated buck-boost PFC converter with reconfigurable rectifier

Verbytskyi, Ievgen; Nadeem, Mohammad Mahad; Blinov, Andrei; Chub, Andrii; Vinnikov, Dmitri 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227389>

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](#)

Virtsu-Kuivastu liinile hangitakse Eesti esimene elektrilaev, mida peab saama toita nii vesiniku kui diisliga

Pau, Aivar forte.delfi.ee 2023 [Virtsu-Kuivastu liinile hangitakse Eesti esimene elektrilaev, mida peab saama toita nii vesiniku kui diisliga](#)

Ära maga maha! Tehnopolü suvepidu toob kokku linnaku kogukonna ja kohalikud elanikud [Võrguväljaanne]

digi.geenius.ee 2022 [Ära maga maha! Tehnopolü suvepidu toob kokku linnaku kogukonna ja kohalikud elanikud](#)

Ühistusse koondumine aitab kogukonna energiakulusid vähendada [Võrguväljaanne]

Alvela, Ain novaator.err.ee 2022 [Ühistusse koondumine aitab kogukonna energiakulusid vähendada](#)

ВИДЕО: студенты TalTech презентовали беспилотный электроболид

Stolitsa.ee 2023 [ВИДЕО: студенты TalTech презентовали беспилотный электроболид](#)

"Вилами по воде". Что в Эстонии думают о планах ЕС по сокращению выбросов CO2 [Online resource]

baltnews.ee 2021 ["Вилами по воде". Что в Эстонии думают о планах ЕС](#)

Левитационно-стабилизирующая система транспортного средства кратковременного действия : дисс. на соиск. учен. степ. магистра техн. наук специальность 05.09.01 - электрические машины

Skvorov, Andrei 1992 https://www.ester.ee/record=b2630695*est

Приоткрыли завесу тайны : эстонские энтузиасты готовятся к выпуску электромобиля

Pullerits, Priit rus.postimees.ee 2022 [Приоткрыли завесу тайны : эстонские энтузиасты готовятся к выпуску электромобиля](#)

Советы ученого: как снизить риск возгорания аккумулятора

Blinov, Andrei nauka.err.ee 2024 [Советы ученого: как снизить риск возгорания аккумулятора](#)

Состояние и тенденции развития электротранспорта в Эстонии

Laugis, Juhan; Lehtla, Tõnu; Vinnikov, Dmitri; Boiko, Vitali Труды III международной (XIV всероссийской) конференции по автоматизированному электроприводу : Нижний Новгород, 12-14 сентября 2001 2001 / с. 243-245

Эстонские студенты собирают второй автомобиль, работающий от энергии солнца

Raavik, Jens; Puistaja, Jürgen rus.postimees.ee 2023 [Эстонские студенты собирают второй автомобиль, работающий от энергии солнца](#)