

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

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

Active blended learning engineering students : a case study

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

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

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

Active learning electrical drives through social networking

Vodovozov, Valery; Lehtla, Tõnu 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. 12-19 : ill

Active learning in computer exercises on electronics

Raud, Zoja; Vodovozov, Valery World Academy of Science, Engineering and Technology. International journal of electrical, computer, electronics and communication engineering 2014 / p. 1061-1066 : ill

Active learning in electric drives and power electronics

Raud, Zoja; Vodovozov, Valery 7th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Narva-Jõesuu, Estonia, 16.06-19.06.2009] 2009 / p. 63-68

Active learning in remote electrical drive laboratory

Vodovozov, Valery; Raud, Zoja; Lehtla, Tõnu Proceedings of 2015 IEEE Global Engineering Education Conference (EDUCON) : 18-20 March 2015, Tallinn University of Technology (TUT), Tallinn, Estonia 2015 / p. 28-34 : ill
<https://doi.org/10.1109/EDUCON.2015.7095946>

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

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

Advanced course of electrical drivers : laboratory works

Vodovozov, Valery; Rassõlkin, Anton 2013 http://www.ester.ee/record=b2909098*est

Advanced course of power electronics : laboratory works

Jalakas, Tanel; Vodovozov, Valery; Vinnikov, Dmitri 2008 https://www.ester.ee/record=b2375135*est

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

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

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

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

An object-oriented approach to curriculum design [Electronic resource]

Vodovozov, Valery; Raud, Zoja WMSCI 2009 : The 13th World Multi-Conference on Systemics, Cybernetics and Informatics. [IMSCI09 : ... IMETI 2009 : ...] : July 10th-13th, 2009, Orlando, Florida, USA : proceedings 2009 / p. 225-230 [CD-ROM]

Analysis of state of the art and development trends in soft-switched half-bridge DC/DC converters

Egorov, Mikhail; Vinnikov, Dmitri; Vodovozov, Valery 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. 49-54 : ill

Binary logic vs. fuzzy logic techniques for tuning robust controllers

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

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](#)

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

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

Challenges of active learning in a view of integrated engineering education

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

Circulation centrifugal pump with variable speed drives and minimal electricity consumption

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

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](#)

Concept maps for teaching, learning, and assessment in electronics

Vodovozov, Valery; Raud, Zoja Education research international 2015 / p. 1-9 : ill <https://doi.org/10.1155/2015/849678>

Concept maps in Power Electronics education [Electronic resource]

Raud, Zoja; Vodovozov, Valery; Lehtla, Tõnu CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 280-285 : ill [CD-ROM]

Control of liquid density to prevent abnormal pumping performance

Vodovozov, Valery; Bakman, Ilja Recent Advances in Environmental Science : ...7th WSEAS International Conference on Waste Management, Water Pollution, Air Pollution, Indoor Climate (WWAI '13),... : Lemesos, Cyprus, March 21-23, 2013 2013 / p. 217-222 : ill

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

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

Curricula scheduling with educational thesaurus

Raud, Zoja; Vodovozov, Valery The 2011 World Congress on Computer Science and Information Technology WCSIT'11, 24-27 January 2011, Cairo, Egypt 2011 / [7 p.] : ill

Design and experimentation of fuzzy logic control for an anti-lock braking system

Aksjonov, Andrei; Vodovozov, Valery; Petlenkov, Eduard BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 207-210 : ill http://www.ester.ee/record=b2150914*est

Design and implementation of a digital control and monitoring system for an AC/DC UPS [Electronic resource]

Palamar, Andriy; Karpinsky, Mykola; Vodovozov, Valery CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 173-177 [CD-ROM]
<https://ieeexplore.ieee.org/document/5942227>

Design and modelling of electric drive in database environment [Electronic resource]

Vodovozov, Valery; Pettai, Elmo; Auväärt, Aivar ISIE08 : 2008 IEEE International Symposium on Industrial Electronics : 30 June - 2 July 2008, Cambridge, United Kingdom 2008 / p. 764-767 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4676891>

Design and simulation of the robust ABS and ESP fuzzy logic controller on the complex braking maneuvers

Aksjonov, Andrei; Augsburg, Klaus; Vodovozov, Valery Applied sciences 2016 / p. 1-18 : ill <https://doi.org/10.3390/app6120382>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design considerations for propulsion drives of electric vehicles

Vodovozov, Valery; Lehtla, Tõnu 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. 35-39 : ill

Design issues of redundant protection and supervision system for the special purpose power converters [Electronic

resource]

Vinnikov, Dmitri; Roasto, Indrek; Vodovozov, Valery International Conference on Renewable Energies and Power Quality : ICREPQ'09 : Valencia, Spain, 15th to 17th April 2009 2009 / [6] p. [CD-ROM] <https://www.icrepq.com/ICREPQ%2709/356-vinnikov.pdf>

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

Design of educational thesauri in electronics

Raud, Zoja; Vodovozov, Valery Proceedings of the IRES International Conference : 28th-29th December 2016, Florence, Italy 2016 / p. 1-5 : ill

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

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

Detection and evaluation of driver distraction using machine learning and fuzzy logic

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

Development and verification of control and protection algorithms for the special purpose high power converters

Roasto, Indrek; Vinnikov, Dmitri; Vodovozov, Valery Intelligent Technologies in Logistics and Mechatronics Systems : ITELMS'2008 : proceedings of the 3rd International Workshop : May 22-23, 2008, Panevėžys, Lithuania 2008 / p. 23-27 : ill

Development of students' activity through on-lecture assessment in electrical engineering

Vodovozov, Valery; Raud, Zoja; Gevorkov, Levon Proceedings : 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE) : Grand Cevahir Hotel and Convention Center, Istanbul, Turkey, 01-04 June, 2014 2014 / p. 2213-2217 : ill

Discontinuous space vector modulation technique for motor supply

Vodovozov, Valery; Egorov, Mikhail EUROCON 2011 : International Conference on Computer as a Tool : April 27-29, Lisbon, Portugal 2011 / [4 p.] : ill

Distance control of electric drives and power converters via internet : concept of e-laboratory [Electronic resource]

Vodovozov, Valery; Raud, Zoja EUROCON 2009 : International IEEE Conference devoted to the 150-anniversary of Alexander S.Popov : May 18-23, 2009 Saint Petersburg, Russia 2009 / p. 804-809 [CD-ROM]

Distance laboratory to explore electrical drive

Raud, Zoja; Vodovozov, Valery Recent advances in energy, environment and development : proceedings of the 9th International Conference on Energy & Environment (EE '14) : Geneva, Switzerland, December 29-31, 2014 2014 / p. 58-63 : ill

Distance learning in electrical engineering

Laugis, Juhan; Lehtla, Tõnu; Vodovozov, Valery 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. 148-153

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

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

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

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

Educational collaboration in the field of power electronics and electromechanics

Laugis, Juhan; Vodovozov, Valery Материалы Международной конференции : Международное сотрудничество в образовании и науке : Санкт-Петербург, 2-6 июня 2008 года = Proceedings of the International Conference : International Education and Science Cooperation : Saint-Petersburg, June 2-6, 2008 : IESC-2008 2008 / p. 241-245

Educational thesauri for mastering engineering courses

Vodovozov, Valery; Lehtla, Tõnu 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. 24-29 : ill

Educational thesaurus for learning electronics

Raud, Zoja; Vodovozov, Valery; Lehtla, Tõnu Recent Researches in Communications, Information Science and Education : [proceedings of CIT'12, ELECTROSCIENCE'12, WORLD-EDU'12 : Vouliagmeni Beach, Athens, Greece, March 7-9, 2012] 2012 / p. 67-79 : ill https://www.researchgate.net/publication/252067825_Educational_Thesaurus_for_Learning_Electronics

Educational thesaurus of power electronics

Raud, Zoja; Vodovozov, Valery EUROCON 2011 : International Conference on Computer as a Tool : April 27-29, Lisbon, Portugal 2011 / [4 p.] : ill

Efficiency control for adjustment of number of working pumps in multi-pump system

Bakman, Ilja; Gevorkov, Levon; Vodovozov, Valery 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. 396-402 : ill <http://dx.doi.org/10.1109/CPE.2015.7231108>

Electrical drive : performance, design and control

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

Electronic engineering

Vodovozov, Valery; Jansikene, Raik 2006 http://www.ester.ee/record=b2210447*est

Electronic systems of motor drive

Vodovozov, Valery; Vinnikov, Dmitri 2008 http://www.ester.ee/record=b2384912*est

Electronics and semiconductor engineering : laboratory works

Jalakas, Tanel; Vodovozov, Valery; Vinnikov, Dmitri 2008 https://www.ester.ee/record=b2373748*est

Elektriamite elektroonsed süsteemid

Vodovozov, Valery; Vinnikov, Dmitri; Jansikene, Raik 2008 http://www.ester.ee/record=b2384926*est

Elektroonika ja jõupooljuhttehnika

Vodovozov, Valery; Jansikene, Raik 2008 http://www.ester.ee/record=b2394522*est

Energy management in a centrifugal pumping plant

Vodovozov, Valery; Raud, Zoja 17th IEEE International Conference on Smart Technologies : IEEE EUROCON 2017 : 6-8 July 2017, Ohrid, Macedonia : conference proceedings 2017 / p. 347-352 : ill <https://doi.org/10.1109/EUROCON.2017.8011133>

Energy 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 saving in centrifugal pumps using mutual pressure and flowrate control

Serbin, Aleksandr; Petlenkov, Eduard; Vodovozov, Valery 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [5] p. : ill <http://dx.doi.org/10.1109/RTUCON.2017.8124805>

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

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

Energy-efficient predictive control of centrifugal multi-pump stations

Vodovozov, Valery; Lehtla, Tõnu; Bakman, Ilja; Raud, Zoja; Gevorkov, Levon PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 233-238 : ill <https://doi.org/10.1109/PQ.2016.7724119>

Engineering education : problems, tendencies and solutions

Vodovozov, Valery; Raud, Zoja; Lehtla, Tõnu 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. 166-173

Engineering students mobility: intercultural barriers to achieving intercultural competences

Vodovozov, Valery; Raud, Zoja Educating Engineers for Future Industrial Revolutions : Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020). Volume 2 2021 / p. 248-255 https://doi.org/10.1007/978-3-030-68201-9_78 [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Enhancing students' activity in electrical engineering through Web and social networks

Raud, Zoja; Vodovozov, Valery; Lehtla, Tõnu International Conference Educon 2012 : collaborative learning & new pedagogic approaches in engineering education : Marrakech - Morocco, 17-20 April 2012 2012 / p. 263-269 : ill

EuroTeQ as an alliance to promote European engineering education

Vodovozov, Valery; Raud, Zoja; Lehtla, Madis Proceedings of the 15th International Conference on Computer Supported Education (CSEDU 2023). Vol. 2 2023 / p. 601-607 <https://doi.org/10.5220/0011824900003470>

EuroTeQ Project : first impressions and estimates

Vodovozov, Valery; Lehtla, Madis; Raud, Zoja 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 5 p
<https://doi.org/10.1109/RTUCON56726.2022.9978799>

Experiences with remote labs in electrical drive

Vodovozov, Valery; Raud, Zoja; Gevorkov, Levon 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 88-93 : ill

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 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](#)

Expert system for electric drive design

Laugis, Juhan; Vodovozov, Valery EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 40

Expert system for electric drive design [Electronic resource]

Laugis, Juhan; Vodovozov, Valery EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 1032-1034 : ill. [CD-ROM]

Feed drive of a lathe

Egorov, Mikhail; Vinnikov, Dmitri; Vodovozov, Valery 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. 163-169 : ill

Flexible curricula based on educational thesaurus [Electronic resource]

Raud, Zoja; Vodovozov, Valery Proceedings of the 15th IASTED International Conference on Computers and Advanced Technology in Education 2012 / p. 219-226 : ill [CD-ROM]
https://www.researchgate.net/publication/266630129_Flexible_Curricula_based_on_Educational_Thesaurus

Flexible curricula for e-learning of SME staff in electronic engineering

Raud, Zoja; Vodovozov, Valery; Lehtla, Tõnu 9th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2010) : August 18-20, 2010, Japan 2010 / p. 384-388 <https://ieeexplore.ieee.org/document/5590514>

Flexible models of electric motor drives

Vodovozov, Valery; Vinnikov, Dmitri Технічна електродинаміка 2008 / 3, с. 89-91

From misconceptions to energy saving concepts : case study in pumping engineering

Vodovozov, Valery 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 44-50 : ill
http://www.ester.ee/record=b4650094*est

Fuel cell city buses : grey shadows of green energy

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 l.
<https://doi.org/10.1109/BEC56180.2022.9935604>

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

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

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

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

Fuzzy logic control of electric vehicles in changing braking conditions

Vodovozov, Valery; Raud, Zoja; Aksjonov, Andrei; Petlenkov, Eduard 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / art. 20192756, p. 107-112
<https://doi.org/10.1109/ICEPDS47235.2020.9249083>

Gen Z oriented engineering education in the "Industry 4.0" age

Raud, Zoja; Vodovozov, Valery; Petlenkov, Eduard 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / p. 1-4
<https://doi.org/10.1109/RTUCON60080.2023.10413087>

Hardware-in-the-loop simulation of motor drives for pumping applications

Gevorkov, Levon; Bakman, Ilja; Vodovozov, Valery PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 203-208 : ill

Hardware-in-the-loop simulator of a flow control system for centrifugal pumps

Gevorkov, Levon; Vodovozov, Valery; Lehtla, Tõnu; Raud, Zoja 2016 10th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings : Opera Nova's Congress Center, Bydgoszcz, Poland, 29. June - 01. July, 2016 2016 / p. 472-477 : ill <https://doi.org/10.1109/CPE.2016.7544234>

Hardware-in-the-loop simulator of vessel electric propulsion drive

Vodovozov, Valery; Raud, Zoja; Bakman, Ilja; Lehtla, Tõnu; Gevorkov, Levon 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. 425-430 : ill <http://dx.doi.org/10.1109/CPE.2015.7231113>

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](#)

High-efficiency predictive control of centrifugal multi-pump stations with variable-speed drives = Pumbajaamade muudetava kiirusega tsentrifugaalpumpajamite kõrgefektiivne ennetav juhtimine

Bakman, Ilja 2016 <https://digi.lib.ttu.ee/i/?5352> https://www.ester.ee/record=b4577031*est

High-efficiency predictive control of pumping

Vodovozov, Valery; Bakman, Ilja; Raud, Zoja; Lehtla, Tõnu BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 203-206 : ill http://www.ester.ee/record=b2150914*est

Improved switching patterns of inverters for electric drive applications

Vodovozov, Valery; Raud, Zoja International Journal of Automation and Control Engineering (IJACE) 2013 / p. 70-78 : ill

Innovative training practice in electronics for enterprises

Raud, Zoja; Vodovozov, Valery Przegląd elektrotechniczny = Electrical review 2012 / p. 166-170 : ill
<https://www.semanticscholar.org/paper/Innovative-Training-Practice-in-Electronics-for-Raud-Vodovozov/1ec433892168e2b1c2fa8669542361faed95be44>

Intelligent control of robots with minimal power consumption in pick-and-place operations

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Energies 2023 / art. 7418 <https://doi.org/10.3390/en16217418> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Interinstitutional activity in professional training in power electronics

Vodovozov, Valery; Vinnikov, Dmitri; Laugis, Juhan; Lehtla, Tõnu Технічна електродинаміка 2008 / 7, с. 58-61 : ил
<https://ieeexplore.ieee.org/document/4581146>

Interinstitutional activity in professional training in power electronics [Electronic resource]

Vodovozov, Valery; Vinnikov, Dmitri; Laugis, Juhan; Lehtla, Tõnu 19th International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Speedam 2008 : Ischia (Italy), June 11th-13th, 2008 : conference proceedings 2008 / p. 492-495 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4581146>

Inverters with reduced switching losses for industrial applications

Vodovozov, Valery; Egorov, Mikhail; Raud, Zoja; Lehtla, Tõnu Proceedings : INDIN 2011 : 2011 9th IEEE International Conference on Industrial Informatics : Lisbon, Portugal, 26-29 July, 2011 2011 / p. 274-279 : ill
<https://ieeexplore.ieee.org/document/6034887>

Jõuelektronika

Vodovozov, Valery; Jansikene, Raik 2008 http://www.ester.ee/record=b2394527*est

Kas Eesti vajab filosoofe või insenere? : [vestlus Peterburi Elektrotehnika Ülikooli õppejõuga]

Vodovozov, Valery; Reinde, Urmi Tallinna Ülikoolid 1997 / 2, lk. 30-31

Laboratory setup for teaching an advanced course of power electronics

Jalakas, Tanel; Vinnikov, Dmitri; Vodovozov, Valery 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. 149-154 : ill

Laboratory works in semiconductor electronics

Vodovozov, Valery; Raud, Zoja 2016 http://www.ester.ee/record=b4775549*est

A library of samples for testing variable load electric drives

Liivik, Liisa; Vodovozov, Valery; Rassõlkin, Anton Digest book and electronic proceedings : 54th International Scientific Conference of Riga Technical University : Section of Power and Electrical Engineering 2013 / p. 12.1-12.6 : ill

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>

A method for detection and evaluation of driver distraction induced by in-vehicle information systems

Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 4513-4518 : ill <https://doi.org/10.1109/IECON.2018.8591252>

A method of driver distraction evaluation using fuzzy logic : phone usage as a driver's secondary activity : case study

Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard; Herrmann, Martin Proceedings : IACAT 2017 : XXVI International Conference on Information, Communication and Automation Technologies, October 26-28, 2017, Sarajevo, Bosnia-Herzegovina 2017 / 6 p. : ill <https://doi.org/10.1109/IACAT.2017.8171599>

Mixed pressure control system for a centrifugal pump

Gevorkov, Levon; Vodovozov, Valery 2017 11th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2017) : Cadiz, Spain, 4-6 April 2017 2017 / p. 364-369 : ill <https://doi.org/10.1109/CPE.2017.7915198>

Model-based diagnosis of power converters

Vodovozov, Valery; Raud, Zoja; Vinnikov, Dmitri Технічна електродинаміка 2009 / Тематический выпуск: Силова електроніка та енергоефективність. 2, с. 38-43

Model-based learning in electric drive design

Vodovozov, Valery; Raud, Zoja Modelling and Simulation 2008 : The European Simulation and Modelling Conference 2008 : ESM'2008 : October 27-29, 2008, Le Havre, France 2008 / p. 355-359 : ill https://www.researchgate.net/publication/290347959_Model-based_learning_in_electric_drive_design

Modeling and analysis of pumping motor drives in hardware-in-the-loop environment

Vodovozov, Valery; Gevorkov, Levon; Raud, Zoja Journal of power and energy engineering 2014 / p. 19-27 : ill

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](#)

Motivating Students to Avoid Academic Dishonesty in Learning Engineering Courses

Raud, Zoja; Vodovozov, Valery; Petlenkov, Eduard; Serbin, Aleksandr EDUCON 2018 : Global Engineering Education Conference : abstracts 2018 / p. 100 http://www.educon-conference.org/current/documents/EDUCON2018_abstracts.pdf

Motor drive design in database environment

Laugis, Juhan; Vodovozov, Valery The 4th International Scientific Conference of The Military Technical College [Korby El-Kobbah, Cairo, Egypt] : 27-29 May 2008. Proceedings of the 6th ICEENG Conference : 27-29 May, 2008 2008 / p. EE018 [CD-ROM] https://iceeng.journals.ekb.eg/article_34296_b9df1acbd4c7630c96585eec987ce18f.pdf

Motor drive design using structured query language

Vodovozov, Valery; Laugis, Juhan Estonian journal of engineering 2008 / 4, p. 334-344 : ill

Multi-motor pressure management system with minimal energy consumption

Vodovozov, Valery; Gevorkov, Levon; Raud, Zoja 2016 IEEE 14th International Conference on Industrial Informatics (INDIN) : Palais des Congrès du Futuroscope, Futuroscope - Poitiers, France, 19-21 July, 2016 : proceedings 2016 / p. 243-247 : ill
<https://doi.org/10.1109/INDIN.2016.7819166>

Multi-pump control applications for ABB ACQ 810 industrial drive

Bakman, Ilja; Vodovozov, Valery 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. 37-44 : ill

Neural network based configuring of linear delta robots with reduced energy consumption

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Renewable energies environment and power quality journal 2024 / p. 82-88
<https://doi.org/10.24084/reepqj24.267>

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](#)

A Novel driver performance model based on machine learning

Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard; Herrmann, Martin IFAC-PapersOnLine 2018 / p. 267-272 : ill <http://dx.doi.org/10.1016/j.ifacol.2018.07.044>

Object-oriented electric drive development technology

Vodovozov, Valery; Laugis, Juhan [Proceedings of the] International Electric Machines and Drives Conference : IEMDC'07 : May 3-5, 2007, Antalya, Turkey 2007 / p. 1215-1219 : ill

Ontology-based design of educational trajectories

Raud, Zoja; Vodovozov, Valery; Petlenkov, Eduard; Serbin, Aleksandr 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.2018.8659893>

Ontology-based design of the learner's knowledge domain in electrical engineering

Raud, Zoja; Vodovozov, Valery Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 47-53 : ill <https://doi.org/10.2478/ecce-2019-0007>

Optimization of method of adjustment of productivity of multi-pump system containing directly connected motors

Bakman, Ilja; Gevorkov, Levon; Vodovozov, Valery PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 209-214 : ill

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>

Performance improvement of pumps fed by the variable speed drives

Vodovozov, Valery; Bakman, Ilja Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2013 / p. 45-51 : ill

Pick-and-place operation of linear Delta robots with low energy consumption

Vodovozov, Valery; Lehtla, Madis; Raud, Zoja; Petlenkov, Eduard 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 6 p <https://doi.org/10.1109/RTUCON62997.2024.10830764>

PLC-based flow rate control system for centrifugal pumps

Gevorkov, Levon; Vodovozov, Valery; Lehtla, Tõnu; Bakman, Ilja 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 239-243 : ill

PLC-based hardware-in-the-loop simulator of a centrifugal pump

Gevorkov, Levon; Vodovozov, Valery; Lehtla, Tõnu; Raud, Zoja 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 491-496 : ill
<http://dx.doi.org/10.1109/PowerEng.2015.7266366>

PLC-based pressure control in multi-pump applications

Vodovozov, Valery; Gevorkov, Levon; Raud, Zoja Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2015 / p. 23-29 : ill <http://dx.doi.org/10.1515/ecce-2015-0008>

Power accounting for ship electric propulsion

Vodovozov, Valery; Lehtla, Tõnu Doctoral School of Energy and Geotechnology II : closing conference of the project : Pärnu, Estonia, January 12-17, 2015 2015 / p. 33-37 : ill

Power electronic converters

Vodovozov, Valery; Jansikene, Raik; Risthein, Endel 2006 http://www.ester.ee/record=b2156786*est

Power electronics : electrical energy converters

Raud, Zoja; Vodovozov, Valery 2014 https://www.ester.ee/record=b4421523*est

Power electronics : laboratory works

Jalakas, Tanel; Vodovozov, Valery; Vinnikov, Dmitri 2008 http://www.ester.ee/record=b2373811*est

Predictive control of a variable-speed multi-pump motor drive

Bakman, Ilja; Gevorkov, Levon; Vodovozov, Valery Proceedings : 2014 IEEE 23rd International Symposium on Industrial Electronics (ISIE) : Grand Cevahir Hotel and Convention Center, Istanbul, Turkey, 01-04 June, 2014 2014 / p. 1409-1414 : ill

Predictive control of multi-pump stations with variable-speed drives

Vodovozov, Valery; Raud, Zoja IET electric power applications 2017 / p. 911-917 : ill <https://doi.org/10.1049/iet-epa.2016.0361>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pressure control with minimal power consumption of a pumping station

Vodovozov, Valery; Raud, Zoja Recent Advances in Environmental and Earth Sciences and Economics : [proceedings of the EEDE 2015, GESE 2015, MANASE 2015, WHH 2015 : Zakynthos Island, Greece, July 16-20, 2015] 2015 / p. 242-245 : ill

Professional thesaurus of engineering educational system [Electronic resource]

Raud, Zoja; Vodovozov, Valery WMSCI 2009 : The 13th World Multi-Conference on Systemics, Cybernetics and Informatics. [IMSC'09 : ... IMETI 2009 : ...] : July 10th-13th, 2009, Orlando, Florida, USA : proceedings 2009 / p. 212-217 [CD-ROM]

Project-based collaborative learning of electrical engineering master students

Raud, Zoja; Vodovozov, Valery IEEE EDUCON 2010 Conference : Madrid 2010 : program book 2010 / p. 382
https://www.researchgate.net/publication/224148610_Project-based_collaborative_learning_of_electrical_engineering_master_students

Promotion of the students' success in higher engineering education

Raud, Zoja; Vodovozov, Valery; Aksjonov, Andrei; Petlenkov, Eduard 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 <https://doi.org/10.1109/RTUCON.2017.8124806>

Reduction of academic dishonesty in learning engineering courses

Raud, Zoja; Vodovozov, Valery 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. 23-29 : ill
http://ise.elnet.ee/record=b2949857~S2*est

Remote training with self-assessment in electrical engineering

Raud, Zoja; Vodovozov, Valery International journal of social, behavioral, educational, economic, business and industrial engineering 2016 / p. 46-51 : ill <http://scholar.waset.org/1999.10/10003299>

Research and development of an active learning technology for university-level education in the field of electronics and power electronics = Aktivõppetehnoloogia uurimine ja väljatöötamine kõrghariduse õppekavale elektroonika ja jõuelektroonika valdkonnas

Raud, Zoja 2012 https://www.ester.ee/record=b2781667*est

Research and development of computational-intelligence-based safety Systems for ground vehicles = Tehisintellekti meetoditel põhinevate ohutussüsteemide uurimine ja arendamine maapealsete sõidukite jaoks

Aksjonov, Andrei 2019 <https://digi.lib.ttu.ee/i/?12389>

Research and development of control methods for low-loss IGBT inverter-fed induction motor drives = Energiatõhusa IGBT transistor-vaheldiga asünkroonajami juhtimismeetodite uurimine ja väljatöötamine

Egorov, Mikhail 2011 <https://digi.lib.ttu.ee/i/?616>

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

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

Review of energy challenges and horizons of hydrogen city buses

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard Energies 2022 / art. 6945 <https://doi.org/10.3390/en15196945> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Review of the present state, development trends, and advancements of power electronic converters used in robotics

Vodovozov, Valery; Raud, Zoja Energies 2025 / art. 2638 <https://doi.org/10.3390/en18102638>

Review of Trends in the Development of Power Rectifiers used in Robotics

Vodovozov, Valery; Raud, Zoja 2025 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI) 2025 / 6 p. <https://doi.org/10.1109/IATMSI64286.2025.10984733>

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](#)

Robust speed controllers with autotuning for electrically driven equipment

Aksjonov, Andrei; Serbin, Aleksandr; Vodovozov, Valery; Raud, Zoja 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (WED) : Moscow Power Engineering Institute, Moscow, Russia, 30th of January - 2nd of February 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/WED.2019.8664397>

Scientific platforms to explore and test the drives of electric cars

Vodovozov, Valery 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. 42-47 : ill

Self-assessment methodology in active learning electrical engineering

Raud, Zoja; Vodovozov, Valery Recent Advances on Education and Educational Technologies : [proceedings of EET 2015, Barcelona, Spain, April 7-9, 2015, ETE 2015, Vienna, Austria, March 15-17, 2015] 2015 / p. 58-62 : ill

Self-scaling laboratory crane fuzzy logic control with anti-swing regulation [Online resource]

Aksjonov, Andrei; Vodovozov, Valery; Petlenkov, Eduard 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [6] p. : ill <https://doi.org/10.1109/RTUCON.2016.7763088>

Sensorless control of the three-dimensional crane using the Euler-Lagrange approach with a built-in state-space model

Aksjonov, Andrei; Vodovozov, Valery; Petlenkov, Eduard 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 255-258 : ill

Sensorless pressure calculation for parallel redundancy in pumping systems

Vodovozov, Valery; Bakman, Ilja 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 1 2014 / p. 210-218 : ill

Sensorless pressure control of centrifugal pumps [Electronic resource]

Bakman, Ilja; Vodovozov, Valery CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 304-309 : ill [CD-ROM]

Simulation and evaluation of control methods for the rolling stock static auxiliary converter based on three-level NPC inverter topology [Electronic resource]

Roasto, Indrek; Vinnikov, Dmitri; Vodovozov, Valery POWERENG 2009 : 2nd International Conference on Power Engineering, Energy and Electrical Drives : 18-20 March, 2009, Lisbon, Portugal 2009 / p. 593-598 : ill. [CD-ROM] <https://ieeexplore.ieee.org/document/4915176/similar#similar>

Simulation and experimental study on energy management of circulating centrifugal pumping plants with variable speed drives = Muudetava kiirusega ajamitega tsentrifugaalpumpadega varustatud tsirkulatsioonpumbajaamade energiahaldussüsteemide simuleerimine ja eksperimentaalne uurimine

Gevorkov, Levon 2017 <https://digi.lib.ttu.ee/i/?7669> https://www.ester.ee/record=b4674192*est

Simulation in learning power electronics

Laugis, Juhan; Lehtla, Tõnu; Vodovozov, Valery 7th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Narva-Jõesuu, Estonia, 16.06-19.06.2009] 2009 / p. 83-88

Simulation instruments to study power electronics of motor drives [Electronic resource]

Raud, Zoja; Vodovozov, Valery; Jalakas, Tanel; Laugis, Juhan 6th International Conference-Workshop Compatibility and Power Electronics : May 20-22, 2009 : CPE 2009 : conference proceedings 2009 / p. 306-310 [CD-ROM]

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>

Simulation study of the pressure control system for a centrifugal pump [Online resource]

Gevorkov, Levon; Vodovozov, Valery; Raud, Zoja 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.2016.7763086>

Simulation tools to study power electronics [Electronic resource]

Raud, Zoja; Vodovozov, Valery; Lehtla, Tõnu; Pettai, Elmo EPE 2009 : 13th European Conference on Power Electronics and Applications : 8-10 September 2009, Barcelona, Spain 2009 / ? p. [CD-ROM]

Simulation-based training in engineering

Vodovozov, Valery; Raud, Zoja EUROMEDIA'2009 : featuring : Fifteenth Annual Scientific Conference on Web Technology, New Media Communications and Telematics Theory Methods, Tools and Applications : April 15-17, 2009, Bruges, Belgium 2009 / p. 73-79

Single-phase electric drive for automotive applications

Vodovozov, Valery; Lillo, Nikolai; Raud, Zoja 2014 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM) : 18-20 June, 2014, Ischia, Italy : proceedings 2014 / p. 1313-1318 : ill

Space vector modulation with reduced switching losses for motor drive inverters [Electronic resource]

Egorov, Mikhail; Vodovozov, Valery CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 388-393 [CD-ROM] <https://www.semanticscholar.org/paper/Space-vector-modulation-with-reduced-switching-for-Egorov-Vodovozov/89b803db973d2bd7908d7596b234f56665c14d4c>

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>

Staff training for servicing special power electronic applications [Electronic resource]

Raud, Zoja; Vodovozov, Valery CPE 2011 : 7th International Conference-Workshop Compatibility and Power Electronics : June 1-3, 2011, Tallinn, Estonia : conference guide 2011 / p. 319-324 [CD-ROM] <https://ieeexplore.ieee.org/document/5942254>

Strengthening active learning with a reinforcement approach in engineering education

Vodovozov, Valery; Raud, Zoja; Petlenkov, Eduard 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p <https://doi.org/10.1109/RTUCON62997.2024.10830891>

Student assessment in engineering education

Vodovozov, Valery; Lehtla, Tõnu; Laugis, Juhan 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. 145-151

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

Study of the centrifugal pump efficiency at throttling and speed control

Gevorkov, Levon; Vodovozov, Valery BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 199-202 : ill
http://www.ester.ee/record=b2150914*est

Teaching, learning, and assessment in electronics using concept mapping technology

Raud, Zoja; Vodovozov, Valery Recent Advances in Electrical Engineering : proceedings of the 4th International Conference on Circuits, Systems, Control, Signals (CSCS '13), proceedings of the 1st International Conference on Electronics and Electrical Engineering (ELEN '13) : Valencia, Spain, August 6-8, 2013 2013 / p. 102-107 <https://www.semanticscholar.org/paper/TEACHING%2C->

Teaching, learning, and assessment integration in electronics on the concept map basis

Raud, Zoja; Vodovozov, Valery; Lehtla, Tõnu Innovating with concept mapping : proceedings of the 7th International Conference on Concept Mapping : CMC 2016, Tallinn, Estonia, September 5-9, 2016. Volume 2, [Papers, posters and innovative experiences] 2016 / p. 199-207 : ill http://www.ester.ee/record=b4604151*est

A test bench to study propulsion drives of electric vehicles [Electronic resource]

Rassõlkin, Anton; Vodovozov, Valery CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 275-279 : ill [CD-ROM]

A test bench to study propulsion drives of electric vehicles with a supercapacitor storage system [Electronic resource]

Rassõlkin, Anton; Vodovozov, Valery Международная Научно-Техническая Конференция "Силовая Электроника и Энергоэффективность" : 23-27.IX 2013, Алушта, Крым 2013 / [3] p. : ill [CD-ROM]

The model of extracurricular work with students of engineering specialities

Vodovozov, Valery; Raud, Zoja; Detsiuk, Tetiana Advanced education = Новітня освіта 2018 / p. 55-61
<http://doi.org/10.20535/2410-8286.143528>

Three-dimensional crane modelling and control using Euler-Lagrange state-space approach and anti-swing fuzzy logic

Aksjonov, Andrei; Vodovozov, Valery; Petlenkov, Eduard Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2015 / p. 5-13 : ill <http://dx.doi.org/10.1515/ecce-2015-0006>

To study propulsion drives : test bench with supercapacitor storage

Rassõlkin, Anton; Vodovozov, Valery Энергосбережение, энергетика, энергоаудит = Energy saving, power engineering, energy audit 2013 / p. 65-70 : ill

A toolbox to design and study electric drives

Vodovozov, Valery; Raud, Zoja; Egorov, Mikhail EPE-PEMC 2010 : 14th International Power Electronics and Motion Control Conference : 6-8 September 2010, Ohrid, Republic of Macedonia 2010 / p. T5-142 - T5-148

A toolbox to design and study mechatronic systems

Vodovozov, Valery; Raud, Zoja Proceedings of the 29th IASTED International Conference on Modelling, Identification and Control (MIC 2010) : February 15-17, 2010 Innsbruck, Austria 2010 / p. 276-283 : ill. [CD-ROM]

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>

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>

Universities collaboration in teaching power electronics [Electronic resource]

Vodovozov, Valery; Laugis, Juhan EPE 2007 : 12th European Conference on Power Electronics and Applications : 2-5 September 2007, Aalborg, Denmark 2007 / [8] p. [CD-ROM]

Variable-speed single-phase induction motor drive for vehicular applications

Vodovozov, Valery; Lillo, Nikolai; Raud, Zoja Electrical engineering eesearch (EER) 2014 / p. 18-24 : ill

Ways to reduce switching losses in motor drive inverters

Vodovozov, Valery; Lehtla, Tõnu 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. 3-9 : ill

WEB-based learning content management system of power electronics

Vodovozov, Valery; Raud, Zoja EUROMEDIA'2011 : featuring : Sixteenth Annual Scientific Conference on Web Technology, New Media Communications and Telematics Theory Methods, Tools and Applications : April 18-20, 2011, London, United Kingdom 2011 / p. 21-23

Virtual lab to study power electronic converters [Electronic resource]

Raud, Zoja; Vodovozov, Valery SPEEDAM 2010 : International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Pisa, Italy, 14th-16th June, 2010 / p. 703-708 [CD-ROM]

https://www.researchgate.net/publication/241171359_Virtual_lab_to_study_power_electronic_converters

Virtual lab to study power electronics in LabVIEW framework

Raud, Zoja; Vodovozov, Valery 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärđla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p

<https://doi.org/10.1109/PQ.2019.8818275>

Электролиз как способ аккумуляирования избыточной энергии ветроэнергетических установок

Egorov, Mikhail; Vinnikov, Dmitri; Vodovozov, Valery Технічна електродинаміка 2008 / 1, с. 42-47 : ил