

AC losses analysis approaches for electric vehicle motors with hairpin winding configuration

Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Marques Cardoso, Antonio J.; **Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas** IECON 2021 - 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-4 : ill <https://doi.org/10.1109/IECON48115.2021.9589339> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Advanced course of electrical drivers : laboratory works

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

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

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

Analytical modelling of synchronous reluctance motor including non-linear magnetic condition

Naseer, Muhammad Usman; Kallaste, Ants; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton IET electric power applications 2022 / p. 511-524 <https://doi.org/10.1049/elp2.12172> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analytical solution of the magnetic field and EMF calculation in ironless BLDC motor

Liu, Xiangdong; Hu, Hengzai; Zhao, Jing; **Belahcen, Anouar; Tang, Liang; Yang, Lei** IEEE transactions on magnetics 2016 / art. 8100510, [10] p. : ill <https://doi.org/10.1109/TMAG.2015.2481862>

Application of similarity theory methods theory for prediction of transport means electric motors vibration

Petrov, G. Proceedings of the International EAA/EEAA Symposium : Transport Noise and Vibration, Tallinn, 8.06 - 10.06. 1998 1998 / p. 301-304

Armature reaction field and inductance calculation of ironless BLDC motor

Liu, Xiangdong; Hu, Hengzai; Zhao, Jing; **Belahcen, Anouar; Tang, Liang** IEEE transactions on magnetics 2016 / art. 8200214, [14] p. : ill <https://doi.org/10.1109/TMAG.2015.2489605>

Automated inspection system of electric motor stator and rotor sheets

Roosileht, Ingmar; Mets, Oliver; Lentsius, Marek; Heering, Siim; Hiinema, Maido; Tamre, Mart Proceedings of the 9th International Conference of DAAAM Baltic Industrial Engineering, 24-26th April 2014, Tallinn, Estonia 2014 / p. 283-288 : ill

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

Bearing fault analysis of BLDC motor intended for electric scooter application

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

Concepts of additively manufactured electrical machines and components

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

Control basics of a flywheel-powered uninterruptible motor drive

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

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

Curved Airgap Topology : A Promising Strategy for Enhancing Axial-Flux Machine Performance Metrics

Naseer, Muhammad Usman; Kallaste, Ants; Vaimann, Toomas; Asad, Bilal International Conference on the Computation of Electromagnetic Fields (COMPUMAG) 2025

Design and performance of laser additively manufactured core induction motor

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

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

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

Design of the exterior-rotor PM synchronous motor for an electric powered paraglider

Nukki, Rene; **Lehtla, Tõnu**; **Kilk, Aleksander**; Kangru, Tavo 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 245-248 : ill

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

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

Development of an axial flux SRM through additive manufacturing

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

Diagnostic possibilities of induction motor bearing currents

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

Digital twin of an electrical motor based on empirical performance model

Rassõlkin, Anton; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir**; Partyshev, Andriy 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 11-14 : ill <https://doi.org/10.1109/ICEPDS47235.2020.9249366>

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

Rjabtšikov, Viktor; **Mohamed, Mahmoud Ibrahim Hassanin**; **Asad, Bilal**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir**; Stepien, Mariusz; Krawczyk, Mateusz 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p <https://doi.org/10.1109/IEMDC55163.2023.10239085>

Direct liquid cooling in low-power electrical machines : proof-of-concept

Lindh, Pia; Petrov, Ilya; Semken, R. Scott; **Vaimann, Toomas**; **Kallaste, Ants** IEEE transactions on energy conversion 2016 / p. 1257-1266 : ill <https://doi.org/10.1109/TEC.2016.2597059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Doktoritöö: 3D-printimine avab elektrimasinate ehitamisel uue horisondi [Võrguväljaanne]

Alvela, Ain novaator.err.ee 2022 [Doktoritöö: 3D-printimine avab elektrimasinate ehitamisel uue horisondi](https://doi.org/10.23658/taltech.16/2023) <https://digikogu.taltech.ee/et/Item/1a6cde04-f268-42c1-95d7-b9a43dd70046>

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>

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

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

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

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

Electrical drive : performance, design and control

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

Electronic systems of motor drive

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

Elektriamid

Agur, Ustus; **Tiismus, Hugo** 1963 https://www.ester.ee/record=b1421784*est

Elektriamid

Agur, Ustus; **Laugis, Juhan** 1984 https://www.ester.ee/record=b1248882*est

Elektrijamite elektroonsed süsteemid

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

Elektriline paadi p ramootor liitiumaku toitega

Gavrilov, Aleksei Kalastaja 2016 / lk. 76-79 : ill. ; 82, lk. 76 http://www.ester.ee/record=b1072320*est
https://artiklid.elnet.ee/record=b2807237*est

Elektrimasinate diagnostika kui moodus nende eluea pikendamiseks

Vaimann, Toomas; Kilk, Aleksander Inseneeria 2011 / lk. 38, 40 : ill https://www.ester.ee/record=b1519314*est

Elektrimootorite 3D-printimine ei ole ulme

Vaimann, Toomas; Kallaste, Ants Director. Inseneeria 2021 / lk. 74-78 : fot <https://director.ee/2021/02/03/elektrimootorite-3d-printimine-ei-ole-ulme/> http://www.ester.ee/record=b2336521*est

Elektrimootorite kaitse

Lehtla, T nu Tehnika ja Tootmine 1991 / 7/8, lk. 27-30: joon

Elektrimootorite remondi probleeme

Rajangu, V ino Tehnika ja Tootmine 1973 / lk. 517 https://www.ester.ee/record=b1073047*est

Elektrimootorite reservist

Rajangu, V ino P llumajanduse Mehhaniseerimine ja Elektrifitseerimine : Informatsiooniseeria 9 1974 / lk. 16-17
https://www.ester.ee/record=b1274152*est

Elektromontaa 

Sephans, Vladimir 1943 https://www.ester.ee/record=b1635710*est

Experimental investigation of high viscosity on oil spray cooling system with hairpin winding

Shams Ghahfarokhi, Payam; Kallaste, Ants; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; Vaimann, Toomas; Sarap, Martin; Rjabt ikov, Viktor 2023 IEEE 14th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED) 2023 / p. 234-238 <https://doi.org/10.1109/SDEMPED54949.2023.10271484>

Experimental setup to explore the propulsion motor drive testing for battery electric vehicles

Rass lkin, Anton; M  r, Margus Proceedings of 2015 IEEE Global Engineering Education Conference (EDUCON) : 18-20 March 2015, Tallinn University of Technology (TUT), Tallinn, Estonia 2015 / p. 63-67 : ill <http://dx.doi.org/10.1109/EDUCON.2015.7095952>

Fault simulation and analysis of high-voltage circuit breaker's spring charging mechanism using a universal motor model

Asad, Bilal; Vaimann, Toomas; Kallaste, Ants; Kilter, Jako; Sardar, Muhammad Usman 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p
<https://doi.org/10.1109/RTUCON62997.2024.10830846>

Flexible models of electric motor drives

Vodovozov, Valery; Vinnikov, Dmitri Техн чна електродинамика 2008 / 3, с. 89-91

Hybrid thermal model of a synchronous reluctance machine

Shams Ghahfarokhi, Payam; Kallaste, Ants; Belahcen, Anouar; Vaimann, Toomas; Rass lkin, Anton Case studies in thermal engineering 2018 / p. 381-389 : ill <https://doi.org/10.1016/j.csite.2018.05.007> [Journal metrics at Scopus](https://www.scopus.com/journalInfo/abstract.jsp?eid=2-S201805007) [Article at Scopus](https://www.scopus.com/journalInfo/abstract.jsp?eid=2-S201805007) [Journal metrics at WOS](https://www.scopus.com/journalInfo/abstract.jsp?eid=2-S201805007) [Article at WOS](https://www.scopus.com/journalInfo/abstract.jsp?eid=2-S201805007)

Identification, control and tuning of the motor speed in TIA portal

Ruban, Olga 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : P mu, Estonia, January 16-21, 2017 2017 / p. 34-37 : ill http://www.ester.ee/record=b4650094*est

The impact of control environments on global parameters of electrical machines in case of broken rotor bars

Kudelina, Karolina; Raja, Hadi Ashraf; Autsou, Siarhei; Asad, Bilal; Vaimann, Toomas; Rass lkin, Anton; Kallaste, Ants Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p.
<https://doi.org/10.1109/Diagnostika55131.2022.9905149>

Implementation and analysis of rolling bearing faults caused by shaft currents

Kudelina, Karolina; Autsou, Siarhei; Asad, Bilal; Vaimann, Toomas; Rass lkin, Anton; Kallaste, Ants International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2022 <https://doi.org/10.1109/IWED54598.2022.9722596>

Induction motor bearing currents - causes and damages

Kudelina, Karolina; Vaimann, Toomas; Rass lkin, Anton; Kallaste, Ants; Asad, Bilal; Demidova, Galina 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 5 p
<https://doi.org/10.1109/IWED52055.2021.9376354>

Investigation of the causes behind the vibrations of a high-speed solid-rotor induction motor

Sathyan, Sabin; **Belahcen, Anouar**; Lehtikoinen, Antti; Aydin, Ugur; Boxberg, Fredrik Journal of sound and vibration 2019 / art. 114976, 14 p <https://doi.org/10.1016/j.jsv.2019.114976> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Kas on oodata revolutsiooni autotehnikas?

Lepikson, Heino Populaar- ja rakendustehniline kogumik. 3 1949 / lk. 25-33 : ill https://www.ester.ee/record=b1435798*est

Kergröõbassõidukite ajamid ja juhtimine

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

3D-prinditud jahuti muudab elektrimasinad töökindlaks ja tõhusaks

Sarap, Martin novaator.err.ee 2023 [3D-prinditud jahuti muudab elektrimasinad töökindlaks ja tõhusaks](#)

3D printimine avab elektrimasinate tootmisel ennenägematuid võimalusi

Vaimann, Toomas Elektriala 2023 / lk. 22-23 : portr., fot https://www.ester.ee/record=b1240496*est

3D-printimine töötab teha mootoritele uuenduskuuri

Tiismus, Hans novaator.err.ee 2023 [3D-printimine töötab teha mootoritele uuenduskuuri](#) <https://digikogu.taltech.ee/et/Item/1a6cde04-f268-42c1-95d7-b9a43dd70046> https://www.ester.ee/record=b5511687*est

Kuidas organiseerida põllumajanduses kasutatavate elektrimootorite remonti

Rajangu, Väino Sotsialistlik Põllumajandus 1974 / lk. 76-77 : tab https://www.ester.ee/record=b1232872*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

Maaelektriku teatmik

1975 https://www.ester.ee/record=b1304264*est

Magnetische Kompositionsmaterialien (MWKM) für elektrische Motoren

Laansoo, Andres; Liimann, Väino; Ritso, Aadu; Siimar, Rein Tallinna Tehnikaülikooli Toimetised 1990 / lk. 69-81 : ill

Magnetpehmetest kompositsioonmaterjalidest magnetjuhtide omaduste uurimine ja aksiaalvooga elektrimootori detailide valmistamine

Liimann, Väino; Bussel, Oleg; Ritso, Aadu XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 117-118 https://www.ester.ee/record=b1322611*est

Metamodel-based optimization of synchronous reluctance motor rotor

Orlova, Svetlana; Pugachov, Vladislav; Auzins, Janis; **Rassõlkin, Anton** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 6 p. : ill <https://doi.org/10.1109/IWED52055.2021.9376358>

Modeling and control strategy for hybrid electrical vehicle

Vu, Trieu Minh; Sivitski, Alina; Tamre, Mart; Penkov, Igor New applications of electric drives 2015 / p. 27-57 : ill

Modelling of high frequency voltage transients of electrical motors

Laugis, Juhan; Lehtla, Tõnu ELECTROMOTION '99 : 3rd International Symposium on Advanced Electromechanical Motion Systems : July 8-9, 1999, Patras, Greece : proceedings. Vol. I 1999 / p. 243-247

Modified winding function-based model of squirrel cage induction motor for fault diagnostics

Asad, Bilal; Vaimann, Toomas; Belahcen, Anouar; Kallaste, Ants; Rassõlkin, Anton; Iqbal, Muhammad Naveed IET electric power applications 2020 / p. 1722-1734 <https://doi.org/10.1049/iet-epa.2019.1002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Motor Mode Analysis of Exterior-Rotor PM Machine with Gramme's Winding

Nukki, Rene; Kilk, Aleksander; Saarts, Samo; Tiimus, Kristjan Elektronika ja elektrotehnika = Electronics and electrical engineering 2017 / p. 21-25 : ill <https://doi.org/10.5755/j01.eie.23.1.17579> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Muutuste tuules

Aru, Erik Forbes 2013 / lk. 24-26 : ill

Narva jaamades toodetud vesiniku kogukasutegur Tartu bussides jääks 25 protsendi lähedale [Võrguväljaanne]
Ots, Mait err.ee 2021 ["Narva jaamades toodetud vesiniku kogukasutegur Tartu bussides jääks 25 protsendi lähedale"](#)

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

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

Neuro-fuzzy framework for fault prediction in electrical machines via vibration analysis

Kudelina, Karolina; Raja, Hadi Ashraf Energies 2024 / art. 2818 <https://doi.org/10.3390/en17122818> [Journal metrics at Scopus](#)
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oil spray cooling system in electrical machine

Shams Ghahfarokhi, Payam 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. 11-12 : ill
https://www.ester.ee/record=b5457278*est

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>

Poolteist sajandit aurujõuseadmeid Eestis

Õispuu, Leo Kõrgema tehnilise hariduse ja tehnilise mõtte areng Eestis 1987 / lk. 72-85 https://www.ester.ee/record=b1233744*est

Possibilities of decreasing induction motor bearing currents

Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants 2021 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream): proceedings of the conference, April 22, 2021, Vilnius, Lithuania 2021 / 5 p. : ill
<https://doi.org/10.1109/eStream53087.2021.9431419>

Possible manufacturing tolerance faults in design and construction of low speed slotless permanent magnet generator

Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 4 2014 / p. 3073-3082 : ill

Preliminary analysis of global parameters of induction machine for fault prediction in rotor bars

Kudelina, Karolina; Raja, Hadi Ashraf; Autso, Siarhei; Asad, Bilal; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants
2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 243-248 : ill <https://doi.org/10.1109/PEMC51159.2022.9962922>

Preliminary analysis of mechanical bearing faults for predictive maintenance of electrical machines

Kudelina, Karolina; Raja, Hadi Ashraf; Autso, Siarhei; Naseer, Muhammad Usman; Vaimann, Toomas; Kallaste, Ants;
Pomamacki, Raimondas; Hyunh, Van Khang 2023 IEEE 14th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED) 2023 / p. 430-435 : ill <https://doi.org/10.1109/SDEMPED54949.2023.10271451>

Principles and methods of servomotor control : comparative analysis and applications

Autso, Siarhei; Kudelina, Karolina; Vaimann, Toomas; Rassõlkin, Anton; Kallaste, Ants Applied sciences 2024 / art. 2579
<https://doi.org/10.3390/app14062579> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

175 aastat rakenduslike elektrialaste uuringute algusest Eestis

Risthein, Endel Endel Risthein : lapsepõlvest tänaseni. Artiklid. Bibliograafia 2016 / lk. 103-111 : ill

Sensitivity analysis for multi-objective optimization of switched reluctance motors

Andriushchenko, Ekaterina; Kallaste, Ants; Mohammadi, M. Hossain; Lowther, David Alister; Heidari, Hamidreza Machines 2022 / art. 559, 16 p. : ill <https://doi.org/10.3390/machines10070559> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A Simple and efficient quasi-3D magnetic equivalent circuit for surface axial flux permanent magnet synchronous machines

Hemeida, Ahmed; Lehtikainen, Antti; Rasilo, Paavo; Vansompel, Hendrik; **Belahcen, Anouar** IEEE transactions on industrial electronics 2019 / p. 8318-8333 : ill <https://doi.org/10.1109/TIE.2018.2884212>

Speed control strategy selection for multi-pump systems

Bakman, Ilja; Gevorkov, Levon 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 353-356 : ill

A speed measurement method in the model drive with field-oriented control

Boiko, Vitali; Laugis, Juhan BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 337-338 : ill

Steady-state thermal model of a synchronous reluctance motor

Shams Ghahfarokhi, Payam; Belahcen, Anouar; Kallaste, Ants; Vaimann, Toomas; Rassõlkin, Anton 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/RTUCON.2018.8659846>

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

Survey of harmonic emission of electrical vehicle chargers in the European market

Collin, A. J.; Xu, Xiao; Djokic, S. Z.; Möller, F.; Meyer, Jan; **Kütt, Lauri**; Lehtonen, Matti SPEEDAM 2016 - proceedings : International Symposium on Power Electronics, Electrical Drives, Automation and Motion : Capri (Italy), 22nd-24th June 2016 2016 / p. 1208-1213 : ill <https://doi.org/10.1109/SPEEDAM.2016.7526005>

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

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

Thermal analysis of a SynRM using a thermal network and a hybrid model

Shams Ghahfarokhi, Payam; Belahcen, Anouar; Kallaste, Ants; Vaimann, Toomas; Gevorkov, Levon; Rassõlkin, Anton 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 2682-2688 : ill <https://doi.org/10.1109/ICELMACH.2018.8507002>

Thermal analysis of totally enclosed fan cooled synchronous reluctance motor-state of art

Shams Ghahfarokhi, Payam; Kallaste, Ants; Vaimann, Toomas; Belahcen, Anouar IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4372-4377 : ill <https://doi.org/10.1109/IECON.2019.8927706> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

Topology optimization of a 3D-printed switched reluctance motor

Andriushchenko, Ekaterina; Mohammadi, M. Hossain; Lowther, David Alister; Heidari, Hamidreza; Kallaste, Ants; Khan, Arbaaz 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 1976-1980 <https://doi.org/10.1109/ICEM51905.2022.9910829>

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

TTÜs avati fotonäitus elektrimootorite tootmisest : [elektromootorite ja tuulegeneraatorite valmistaja AS Konesko avas oma 20. sünnipäevale pühendatud fotonäituse "Inimesed, elektrimootorid ja metall", pildistasid Annika Haas, Aivar Kullamaa ja Erik Riikoja]

Mente et Manu 2012 / lk. 7 : fot https://www.ester.ee/record=b1242496*est

Tuules peitub soojust

Jegorov, Anatoli; Selg, Vello Maamajandus 2000 / aug., lk. 30-32 : ill https://artiklid.elnet.ee/record=b1029146*est

Töötav elektrimootor otse printerist – jah, see on võimalik!

Vaimann, Toomas Õhtuleht 2022 / Lk. 19 <https://dea.digar.ee/article/oh tuleht/2022/03/12/14>

Türistorid elektri ajamites

Agur, Ustus; Irs, Rein; Laugis, Juhan; Lootus, Jaan; Tomson, Jaan 1970 https://www.ester.ee/record=b1354780*est

Vahelduvvoolu elektrimootorite töörežiimide analüüs teeninduskombinaadi "Kiir" pesumajades ja Keemilise Puhastuse Vabrikus

Vagane, Valdur Kommunaalmajandus ja Teenindus : informatsiooniseeria 7 1968 / lk. 6-8 : ill https://www.ester.ee/record=b1146510*est

Vana flopiseadme uus nägu

Tammemäe, Kalle A & A 1999 / 4, lk. 7-12 https://artiklid.elnet.ee/record=b1002040*est

Visual-interactive simulation models in electrical power engineering and mechatronics programs for distance education at ITMO university

Usoltcev, Aleksandr; Lukichev, Dmitry; Demidova, Galina; **Rassõlkin, Anton; Vaimann, Toomas** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 280-284 : ill <https://doi.org/10.1109/ICEPDS47235.2020.9249365>

Гидромеханические переходные процессы идеализированной модели МГД-привода

Lehtla, Tõnu; Sakkos, Heinar Автоматизированные магнетогидродинамические и линейные электроприводы и их элементы 1981 / с. 87-96 : илл https://www.ester.ee/record=b1319072*est <https://digikogu.taltech.ee/et/Item/ac7fb615-5c64-451e-aabf-881859c7d425>

Исследование двухдвигательного магнетогидродинамического (МГД-) привода в дозаторном режиме : дисс. на соиск. учен. степ. магистра техн. наук : 05.23.01 - электрооборудование = [Kahemootorilise magnetohüdrodünaamilise (MHD-) dosaatori uurimine]

Jansikene, Raik 1992 https://www.ester.ee/record=b2135382*est

Исследование динамики линейного электропривода литейной карусельной машины

Kask, Rein; Laugis, Juhan; Teemets, Raivo Тезисы докладов всесоюзной научно-технической конференции "Динамические режимы работы электрических машин и электроприводов", 12-15 октября 1982 г 1982 / с. [166-168]

Исследование магнетогидродинамического (МГД-) привода в дозаторном режиме : автореферат ... кандидата технических наук (05.09.03)

Lehtla, Tõnu 1975 https://www.ester.ee/record=b1322410*est

Исследование механических характеристик электродвигателей малой мощности

Varvas, Toivo; Rannat, Erich 35 научная конференция студентов втузов Эстонии, Латвии, Литвы, Белоруссии и Молдовы : [Таллинн, 1991] : доклады. Секция САПР в машиностроении [и др.] 1991 / с. 36-37: ил

**Исследование некоторых вопросов защиты электродвигателей в условиях сельскохозяйственного производства : автореферат диссертации на соискание ученой степени кандидата технических наук : N 411
Электрификация сельскохозяйственного производства**

Lepa, Jaan 1968 https://www.ester.ee/record=b1521509*est

Исследование путей увеличения долговечности подшипниковых узлов электродвигателей малой мощности с подшипниками скольжения из спеченных материалов

Žilinski, Vladimir 1978 https://www.ester.ee/record=b4908362*est

Исследование путей увеличения долговечности подшипниковых узлов электродвигателей малой мощности с подшипниками скольжения из спеченных материалов : автореферат ... кандидата технических наук (05.02.04)

Žilinski, Vladimir 1979 http://www.ester.ee/record=b1280895*est

Исследование торцевого асинхронного электродвигателя

Läänemets, V.; Samolevski, Georg XVI студенческая научно-техническая конференция вузов Прибалтики, Белорусской ССР и Калининградской области, посвященная 100-летию со дня рождения В. И. Ленина : 20-25 апреля 1970 г. : (тезисы докладов). Электротехника и энергетика 1970 / с. 9 https://www.ester.ee/record=b1379483*est

Исследование установившихся и динамических режимов работы автоматизированного магнетогидродинамического привода : автореферат ... кандидата технических наук (05.09.03)

Sakkos, Heinar 1977 https://www.ester.ee/record=b1307201*est

Карусельная машина с линейным электроприводом

Kask, Rein; Tiismus, Hugo; Laugis, Juhan; Teemets, Raivo Литейное производство : ежемесячный научно-технический и производственный журнал 1980 / с. [18-19] https://www.ester.ee/record=b1566022*est

Литейная карусельная машина с линейным электроприводом

Kask, Rein; Laugis, Juhan; Lehtla, Tõnu; Sakkos, Heinar; Tiismus, Hugo; Teemets, Raivo Семинар по прикладной магнитной гидродинамике : тезисы докладов 1978 / с. [143-145]

МГД - привод для транспортировании магниевых сплавов

Grinko, Aleksandr; Kask, Rein; Laugis, Juhan; Sakkos, Heinar; Tiismus, Hugo; Teemets, Raivo Семинар по прикладной магнитной гидродинамике : тезисы докладов 1978 / с. [79-81]

Методика определения максимального радиуса обслуживания предприятий специализированной ремонтной базой электродвигателей

Rajangu, Väino Труды экономического факультета. 19 1976 / с. 65-69 https://www.ester.ee/record=b2190754*est
<https://digikogu.taltech.ee/et/Item/d8e22164-8098-4860-bb49-9ec1ac3b17d7>

Методика определения рационального месторасположения ремонтной базы электродвигателей

Rajangu, Väino Труды экономического факультета. 17 1975 / с. 31-34 https://www.ester.ee/record=b2190683*est
<https://digikogu.taltech.ee/et/Item/66fab3a3-62ac-4136-ae1b-1d85b9924efc>

Об инженерной методике расчета коэффициента рассеяния магнитной системы бесконтактного электродвигателя постоянного тока с аксиальным потоком

Pool, Ain-Matt; Samolevski, Georg Исследование электромагнитных и электромашинных устройств управления и контроля специального назначения 1978 / с. 3-17 : илл https://www.ester.ee/record=b1346523*est <https://digikogu.taltech.ee/et/Item/a244ed16-2990-4904-9ca3-15c6823a6050>

Обработка щитов электродвигателя попутным течением

Melnikova, L.I.; Talvik, Rein; Usov, B. Сборник статей по машиностроению. 11 1974 / с. 71-82 : илл
https://www.ester.ee/record=b2190671*est <https://digikogu.taltech.ee/et/Item/14a852e7-1356-4855-a6bb-23bd52f7a529>

Определение перспективной потребности в электродвигателях в народном хозяйстве Эстонской ССР

Rajangu, Väino Труды экономического факультета. 14 1974 / с. 11-16 https://www.ester.ee/record=b2190641*est
<https://digikogu.taltech.ee/et/Item/dba4f900-e1c6-4738-a60d-c02f7ca603bf>

Подвесной лодочный мотор с питанием от литиевого аккумулятора

Gavrilov, Aleksei Радио 2016 / с. 44-45 : ил http://www.ester.ee/record=b1097423*est

Проблемы доздания автоматизированной литейной установки

Grinko, Aleksandr; Kask, Rein; Laugis, Juhan; Sakkos, Heinar; Tiismus, Hugo; Teemets, Raivo Семинар по прикладной магнитной гидродинамике : тезисы докладов 1978 / с. [81-83]

Программа, методические указания и контрольные задания по курсу Теория электропривода : для студентов-заочников специальности "Электропривод и автоматизация промышленных установок"

1980 https://www.ester.ee/record=b2639426*est

Программа, методические указания и контрольные задания по курсу "Теория электропривода" для студентов-заочников специальности "Электропривод и автоматизация промышленных установок"

1979 https://www.ester.ee/record=b3538467*est

Пути рационального использования рабочей силы в ремонтном хозяйстве (на примере капитального ремонта электродвигателей)

Rajangu, Väino Научная конференция "Воспроизводство и рациональное использование рабочей силы в народном хозяйстве республики" : тезисы. II 1975 / с. 20-21 https://www.ester.ee/record=b1380489*est

Разработка силовой части двухдвигательного МГД-привода для автоматизации заливки литейных форм : диссертация ... кандидата технических наук : 05.09.03 - электрооборудование

Pettai, Elmo 1984 https://www.ester.ee/record=b2488457*est

Расчет электромагнитных и тепловых режимов магнитогидродинамических и линейных электродвигателей

1980 https://www.ester.ee/record=b1312133*est <https://digikogu.taltech.ee/et/Item/33f00334-bea3-4517-ba38-040675579736>

Результаты пробной эксплуатации линейной карусельной машины

Kask, Rein; Laugis, Juhan; Lehtla, Tõnu; Sakkos, Heinar; Tiismus, Hugo; Teemets, Raivo Семинар по прикладной магнитной гидродинамике : тезисы докладов 1978 / с. [3]

Результаты продной эксплуатации литейной карусельной машины

Kask, Rein; Laugis, Juhan; Lehtla, Tõnu; Sakkos, Heinar; Tiismus, Hugo; Teemets, Raivo Семинар по прикладной магнитной гидродинамике : тезисы докладов. Ч. 2 1978 / с. [?]

Тезисы докладов семинара "Новые разновидности электропривода и возможности их применения"

1990 https://www.ester.ee/record=b1249397*est

Теория электропривода : задания для лабораторных работ

Agur, Ustus; Sakkos, Heinar 1969 https://www.ester.ee/record=b1393586*est

Теория электропривода : описания лабораторных работ

1988 https://www.ester.ee/record=b1244689*est

Укомплектование резерва и создание обменного фонда электродвигателей

Rajangu, Väino Труды экономического факультета. 17 1975 / с. 25-29 https://www.ester.ee/record=b2190683*est
<https://digikogu.taltech.ee/et/Item/66fab3a3-62ac-4136-ae1b-1d85b9924efc>

Устройство для исследования триботехнических характеристик опор бесконтактных приборных электродвигателей

Tamre, Mart; Ajaots, Mairo, juhendaja Трение и износ в машинах. 14 1987 / с. 76-81

Широтно-импульсная модуляция по синусоидальному закону

Toomela, P. Электромеханика. 3 1970 / с. 55-60 : илл https://www.ester.ee/record=b2189951*est
<https://digikogu.taltech.ee/et/Item/ba0097d6-af8f-4557-96a1-ac545e315074/>