

Additive manufacturing of electrical machines

Kallaste, Ants 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. 61-62 : ill
https://www.ester.ee/record=b5183874*est

Address from main organizers

Vinnikov, Dmitri; Liivik, Elizaveta 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. [3]
https://www.ester.ee/record=b5183874*est

Advanced sensors and on-line measurements for power lines in smart grids

Shabbir, Noman 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. 205-206 : ill
https://www.ester.ee/record=b5183874*est

Advancement in perception capabilities for autonomous vehicles : from dataset collection to scene interpretation = Autonoomsete sõidukite tajuvõimekuse täiustamine : andmekogumisest stseeni tõlgendamiseni

Gu, Junyi 2024 https://www.ester.ee/record=b5703761*est <https://digikogu.taltech.ee/et/Item/a1d10aec-0115-4574-8548-356884ec5e86>
<https://doi.org/10.23658/taltech.60/2024>

An indirect model predictive current control (CCS-MPC) for grid-connected single-phase three-level NPC quasi-Z-source PV inverter

Pires Pimentel, Sergio 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. 29-30 : ill
https://www.ester.ee/record=b5183874*est

Analysis of building sensor data to explain the experienced indoor room temperature

Crasta, Cletus J. 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. 211-212 : ill
https://www.ester.ee/record=b5183874*est

Artificial intelligence driven approaches for fault prognostics of electrical machines using vibration spectrum analysis = Tehisintellektil põhinevad lähenemisviisid elektrimasinate rikete prognoosimiseks vibratsioonispektri analüüsi abil

Kudelina, Karolina 2024 https://www.ester.ee/record=b5685285*est <https://doi.org/10.23658/taltech.28/2024>
<https://digikogu.taltech.ee/et/Item/229f1bbb-6178-414a-9e2e-2c98a30a783c>

Bidirectional DC-DC converter with extended ZVS/ZCS range for storage applications

Blinov, Andrei 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. 31-32 : ill
https://www.ester.ee/record=b5183874*est

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

Can electrical phenomena be explained with the concept of an "electric family tree"?

Järvik, Jaan 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. 45-46 : ill
https://www.ester.ee/record=b5183874*est

Comparison of the porous structure of oil shale fly ashes from two different CFB boilers

Pikkor, Heliis 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. 99-100 : ill
https://www.ester.ee/record=b5183874*est

Condition monitoring of electrical machines and its relation to IoT

Vaimann, Toomas 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. 55-56 : ill
https://www.ester.ee/record=b5183874*est

Control of DC/AC full bridge inverter

Najafzadeh, Mahdiyyeh 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. 159-160 : ill
https://www.ester.ee/record=b5183874*est

Crowd evacuation using agent-based model in VR simulation

Wang, Ruxin 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. 85-86 : ill
https://www.ester.ee/record=b5183874*est

Design and implementation of intelligent ground vehicle safety systems of high robustness to varying environmental and human factors

Aksjonov, Andrei 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. 107-108
https://www.ester.ee/record=b5183874*est

Development of new requirements for outdoor advertisement screens

Varjas, Toivo 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. 231-232 : ill
https://www.ester.ee/record=b5183874*est

Development of performance evaluation model for a robot-based manufacturing cell

Kangru, Tavo 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. 101-102
https://www.ester.ee/record=b5183874*est

Digital twin based synchronized control and simulation of the industrial robotic cell using virtual reality

Kuts, Vladimir 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. 87-88 : ill
https://www.ester.ee/record=b5183874*est

Discordance between amyloid- β PET and CSF biomarkers : clinical and pathophysiological consequences = Amüloid- β staatuses vastuolu PET-uuringul ning liikvorianalüüsil : kliiniline ja patofüsioloogiline tähendus

Reimand, Juhan 2021 <https://doi.org/10.23658/taltech.15/2021> https://www.ester.ee/record=b5431268*est
<https://digikogu.taltech.ee/et/Item/d14a365f-fbfc-4595-923e-473262485fe2>

[Eessõna]

Land, Tiit Tallinna Tehnikaülikooli majandusaasta aruanne 2022 2023 / lk. 5 : portr https://www.ester.ee/record=b5263625*est

[Eessõna]

Aaviksoo, Jaak Majandusaasta aruanne 2018 / TalTech 2019 / lk. 5 : fot https://www.ester.ee/record=b5263625*est

[Eessõna]

Land, Tiit Tallinna Tehnikaülikooli majandusaasta aruanne 2023 2024 / lk. 5 : portr https://www.ester.ee/record=b5263625*est

Eesti Mereakadeemia : õppekavad

2025 https://www.ester.ee/record=b5455869*est

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 https://www.ester.ee/record=b5183874*est

First year PhD studies : modifying price based set point calculation algorithms for use in off-grid mode

Häring, Tobias 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. 181-182 : ill
https://www.ester.ee/record=b5183874*est

Guidelines for selection of tertiary wastewater treatment technology : report

Lember, Erki; Kuusik, Argo 2020 https://bestbalticproject.eu/wp-content/uploads/2020/11/BEST_report_TUT_27_11.pdf

Haptic glove for augmented and virtual reality

Vu, Trieu Minh 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. 19-20 : ill
https://www.ester.ee/record=b5183874*est

Hea toetaja : [rektori tervitus]

Land, Tiit Tallinna Tehnikaülikooli Arengufondi aastaraamat 2025 2025 / lk. 6 : fot https://www.ester.ee/record=b5687418*est

Implementing interdisciplinarity in career guidance : guidebook for career counselors : Rezekne, Tallinn, Kaunas 2019

2019 https://www.rta.lv/uploads/source/projects/citi%20projekti/2019/Handbook_%20EE.pdf
https://www.researchgate.net/publication/336944607_Disaini_tehnoloogia_ja_majanduse_erialadevaheliste_pohimotete_rakendamise_karjaarino_ustamise_kasiraamat
https://www.researchgate.net/publication/336944824_Karjeras_konsultantu_rokasgramata_dizaina_tehnologiju_un_ekonomikas_starpdisciplinarit_ates_istenosanai https://www.ester.ee/record=b5188148*est

Inseneriteaduskond : bakalaureuse- ja integreeritud õppekavad
2024

Inseneriteaduskond : bakalaureuse- ja integreeritud õppekavad
2025

Interleaved quasi-Z-source inverter with activ power decoupling for kW-scale PV applications

Stepenko, Serhii 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. 71-72 : ill
https://www.ester.ee/record=b5183874*est

ISEAUTO - First Estonian Self-Driving Vehicle

Rassõlkin, Anton 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. 11-12
https://www.ester.ee/record=b5183874*est

Kohalike omavalitsuste ringmajanduslike tegevuste hetkeseisu analüüs ja teekaartide koostamine : analüüsi aruanne
Hurt, Ulrika; Piirimäe, Kristjan; Tuisk, Tarmo; Voronova, Viktoria; Dulova, Niina; Merisaar, Jaana; Kull, Margit; Niidu, Allan; Klõga, Marija; Pachel, Karin; Küttim, Merle 2023 <https://doi.org/10.11590/taltech.municipalities.circular.economy.roadmaps.report.2023>

Koos loome tugevama tuleviku, mida juhivad teadus, innovatsioon ja inimesed, kes näevad suurt pilti

Oorn, Arvo Tallinna Tehnikaülikooli Arengufondi aastaraamat 2025 2025 / lk. 30 : fot https://www.ester.ee/record=b5687418*est

Kuressaare kolledž : bakalaureuse- ja rakenduskõrghariduse õppekavad
2025

Kuressaare kolledž : bakalaureuse- ja rakenduskõrghariduse õppekavad
2024

KüberNööpnõel 2025 tulemused

Lorenz, Birgy; Toom, Hanna; Lust, Maia; Talisainen, Aleksei 2025 [KüberNööpnõel 2025 tulemused \(Google Docs\)](#)

KüberNööpnõel tulemused 2024

Lorenz, Birgy; Toom, Hanna; Talisainen, Aleksei; Kirna, Catlyn 2024 [KüberNööpnõel tulemused 2024 \(Google Docs\)](#)

KüberPuuring 2024 analüüs : võistlus 7.-12. klassile ja kutsekoolile

Lorenz, Birgy; Toom, Hanna; Lust, Maia; Kikas, Oliver; Muulmann, Triin; Kirna, Catlyn 2025 [KüberPuuring 2024 analüüs \(Google Docs\)](#)

KüberPõgenemistuba

Lorenz, Birgy; Lust, Maia; Muulmann, Triin; Toom, Hanna; Kirna, Catlyn 2024 <https://sites.google.com/view/pogene>

KüberPähkel 2024 tulemused

Lorenz, Birgy; Toom, Hanna; Kirna, Catlyn; Lust, Maia; Kits, Rasmus 2025 [KüberPähkel 2024 tulemused \(Google Docs\)](#)

Legged Locomotion on Soft and Wet Terrains [Võrguteavik] = Jalgadel liikumine pehmel ja märjal maastikul

Godon, Simon Pierre 2025 https://www.ester.ee/record=b5754511*est <https://digikogu.taltech.ee/et/Item/3fa536fe-cad0-47ce-b240-5415fb6ce141> <https://doi.org/10.23658/taltech.48/2025>

Loodusteaduskond : bakalaureuseõppekavad

2024 https://www.ester.ee/record=b5455874*est

Majandusteaduskond : bakalaureuseõppekavad

2025 https://www.ester.ee/record=b5455887*est

Material properties for 3D printing electrical machines

Tiismus, Hans 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. 139-140
https://www.ester.ee/record=b5183874*est

Metabolic reprogramming accompanying the development of colorectal cancer = Kolorektaalvähi arenguga kaasnev metaboolne ümberprogrammeerimine

Reinsalu, Leenu 2024 https://www.ester.ee/record=b5708354*est <https://digikogu.taltech.ee/et/Item/127398f7-c150-42ac-bf23-f7d3ff34331f>
<https://doi.org/10.23658/taltech.63/2024>

Model predictive control of novel buck-boost inverter with unfolding circuit

Matiushkin, Oleksandr 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. 155-156 : ill
https://www.ester.ee/record=b5183874*est

Modeling of lighting load for the residential building

Iqbal, Muhammad Naveed 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. 183-184 : ill
https://www.ester.ee/record=b5183874*est

Molecularly imprinted polymers: towards development of chemosensors for medical diagnostics and environmental monitoring

Sõritski, Vitali XV Loodusteaduskonna Teaduskonverents 2023 / 34 p. <https://taltech.ee/loodusteaduskond/teaduskonna-teaduskonverents> <https://doi.org/10.48726/1y9d6-46543>

Novel family of single-stage buck-boost inverters based on unfolding circuit

Husev, Oleksandr 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. 39-40 : ill
https://www.ester.ee/record=b5183874*est

A novel vector control strategy for six-phase induction motor with low torque ripples and harmonic currents

Heidari, Hamidreza 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. 121-122

1200 V RB-IGBTs under different switching conditions

Korkh, Oleksandr 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. 149-150 : ill

Operation and principles of bearingless synchronous reluctance machines

Belahcen, Anouar 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. 53-54 : ill
https://www.ester.ee/record=b5183874*est

Possible uses of blockchain technology in the power markets

Agabus, Hannes 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. 65-66
https://www.ester.ee/record=b5183874*est

Preliminary analysis of PMU measurements for power quality assessment

Löper, Mari 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. 189-190 : ill
https://www.ester.ee/record=b5183874*est

PV module level DC-DC converters with wide input voltage regulation range - implementation challenges and application benefits

Chub, Andrii 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. 25-26 : ill
https://www.ester.ee/record=b5183874*est

Quazi-Z-source based string inverter for residential photovoltaic application

Santasheva, Elena 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. 105-106 : ill
https://www.ester.ee/record=b5183874*est

Rapid prototyping - speed up your power electronic design

Roasto, Indrek 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. 47-48 : ill
https://www.ester.ee/record=b5183874*est

[Rektori eessõna]

Land, Tiit Tallinna Tehnikaülikooli majandusaasta aruanne 2021 2022 / lk. 5 : portr https://www.ester.ee/record=b5263625*est

Second year PhD studies : study of ventilation control

Maask, Vahur 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. 191-192 : ill
https://www.ester.ee/record=b5183874*est

Siht on tugev tervik : [eessõna]

State of the art in research on microgrids realtime studies

Ahmadihangar, Roya 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. 67-68
https://www.ester.ee/record=b5183874*est

Suunised ruumilise kahanemise analüüsimiseks ja kohandamise strateegia koostamiseks

2020 ["Suunised ruumilise kahanemise analüüsimiseks ja kohandamise strateegia koostamiseks"](https://www.ester.ee/record=b5183874*est)

Tallinna Tehnikaülikooli Arengufondi aastaraamat 2025

2025 https://www.ester.ee/record=b5687418*est

Tallinna Tehnikaülikooli majandusaasta aruanne 2021

2022 https://www.ester.ee/record=b5263625*est

Tallinna Tehnikaülikooli majandusaasta aruanne 2022

2023 https://www.ester.ee/record=b5263625*est

Tallinna Tehnikaülikooli majandusaasta aruanne 2023

2024 https://www.ester.ee/record=b5263625*est

Tallinna Tehnikaülikooli majandusaasta aruanne 2024

2025 https://www.ester.ee/record=b5263625*est

Teaching power electronics using object-oriented approach

Raud, Zoja 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. 51-52
https://www.ester.ee/record=b5183874*est

Test method for determining radiation absorptivity and emissivity coefficients of ACSR conductors

Kiitam, Ivar 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. 185-186 : ill
https://www.ester.ee/record=b5183874*est

Testing different power system out-of-step detection algorithms

Tealane, Marko 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. 199-200 : ill
https://www.ester.ee/record=b5183874*est

Testing the characteristics of phasor measurement units using real-time digital simulator

Trummal, Tarmo 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. 229-230 : ill
https://www.ester.ee/record=b5183874*est

The improvement of power factor and torque for synchronous reluctance machine

Majumder, Abhisek 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. 133-134
https://www.ester.ee/record=b5183874*est

Thermal management of a SynRM for traction application

Shams Ghahfarokhi, Payam 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. 109-110 : ill
https://www.ester.ee/record=b5183874*est

Thoughts on conversion of static load models

Leinakse, Madis 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. 187-188 : ill
https://www.ester.ee/record=b5183874*est

Uued inimesed TalTechis

Treial, Inkeri; Liibek, Tõnis Mente et Manu 2019 / lk. 32-33 : portr https://www.ester.ee/record=b1242496*est
https://www.ttu.ee/public/m/mente-et-manu/MM_02_2019/mobile/index.html

Winding function based analytical model of squirrel cage induction motor for fault diagnostics

Asad, Bilal 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. 113-114 : ill

https://www.ester.ee/record=b5183874*est

Wireless charging solutions for autonomous industrial systems

Zinchenko, Denys 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. 167-168 : ill
https://www.ester.ee/record=b5183874*est

Vision based sensor analysis for mobile robots

Malayjerdi, Ehsan 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. 97-98 : ill
https://www.ester.ee/record=b5183874*est

Visioon. Ruum. Vorm : 10 aastat arhitektuuriõpet Tallinna Tehnikaülikoolis

2021 https://www.ester.ee/record=b5476581*est

Üleriigiline uuring elamute kasutusest väljalangevusest ja tühjenemise mustritest : lõppraport [Võrguteavik]

Cerrone, Damiano; Hadaway, John; Männigo, Kristjan; Lehtovuori, Panu; **Grišakov, Kristi**; **Lihtmaa, Lauri**; **Kalamees, Targo** 2022
https://eehitus.ee/wp-content/uploads/2022/04/Tuhjenemise-mustrid_lopprapprt_2022_compressed.pdf