

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

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

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

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

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

Interleaved quasi-Z-source inverter with active 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

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

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

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

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

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

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

Ghahfarokhi, Payam Shams 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

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