Ural-Siberian Smart Energy CONFERENCE

IEEE Ural Federal University NETI SIBIRCON

11-13th November, 2022

2022 USSEC

2022 Symposium on Smart Energy (USSEC)

Yekaterinburg (Hybrid Event)

- Automated Electrical Systems
- Information and Communication Technologies in Industry
- Diagnostic, Prognostic and Maintenance Methods and Tools
- Smart Grids and Microgrids
- Power Equipment, Electrical Machines and Drives
- Power Engineering Education

ONLINE ACCESS	ZOOM, CONFERENCE ID 858 6539 4121, CODE 776433, LINK

13 NOVEMBER	THE OPENING CEREMONY
EKATERINBURG TIME 10:00 -10:15	Welcome speech from the Program Committee Chairman

13 NOVEMBER	THE PLENARY SESSION
10:15 – 10:30	Application of a risk-based approach and deep convolutional neural networks to determine the set of flight points in the diagnostics and design of electrical complexes. Stanislav Eroshenko (ID 1908)
10:30 – 10:45	Influence of the Combustion Chamber Design on the Toxicity and Opacity Level of the Exhaust Gases of a Diesel Engine (13/14) Leonid Plotnikov (ID 1688)
10:45 – 11:00	Optimization of the Power Equipment Operational State During Restoration and Reconstruction. Alina Stepanova (ID 1765)
11:00 – 11:15	An Algorithm for FPGA-based Segmentation of Binary Images. Alexey Romanov (ID 1906)
11:15 – 11:30	Application LSTM Neural Networks for Biological Signal Classification. Anton Vasiliev (ID 1903)
11:30 – 11:45	Criteria Analysis Methodology for Assessing the Functioning of The SIE at the Early Stages of its Development on the Basis of Higher Educational Institutions. Elena Zinovieva (ID 1901)
11:45 – 12:00	The Selection of the Optimal Price Category in the Retail Energy Market for Reducing the Electricity Costs of a Mining Enterprise. Natalia Cheganova (ID 1717)
12:00 – 12:15	Limitations and Perspectives of Short-Term Renewable Energy Generation Forecasting Methods. Pavel Matrenin (ID 1636)
12:15 – 12:30	Spatio-Temporal Pattern Analysis of Precipitation Formation to Ensure the Safety of Dams and Hydropower Plants on Small Rivers. Dmitry Klimenko (ID 1926)
12:30 – 12:45	Overview of Renewable Energy Sources in Mongolia. Pavel Matrenin (ID 1654)
12:45 – 13:00	Prospects for the Use of Intelligent Multi-agent Models for the Control of Objects of Deeply Integrated Power Systems. Stanislav Eroshenko (ID 1920)

13 NOVEMBER 13:00 – 13:15	THE CLOSING CEREMONY