

2023 BUSSEC

2023 Belarusian-Ural-Siberian Smart Energy
Conference (BUSSEC)

Ekaterinburg, Russia

Conference program Sept. 26–28, Ekaterinburg Marins Park Hotel

Please register on the link <https://leader-id.ru/events/452721>

26 Sept.		
11:00	The opening ceremony Welcome speech from the Program Committee Chairman	
11:20	Invited speakers	
11:20	Alena Rybushkina	NTI EnergyNet: Segments, Projects and Ppportunities for Universities and Scientists Center Energynet
11:45	Fedor Nepsha	Modern Solutions Implemented by RTSoft Smart Grid center RTSoft-Smart Grid (RTSoft Group)
12:10	Alena Sidorova	Production Activities of Main electrical networks of the East Branch of PJSC Rosseti – Main electrical networks of the East
12:35	Anton Antichipenko	Tavrida Electric. Company and Technologies Tavrida Electric Ural
13:00	Lunch	
14:00	Automated Electrical Systems	
14:00	Ismoil Odinaev	Accelerated Power System Equivalent Algorithm for Emergency Control Based on Phasor Measurement Units (ID 2645)
14:15	Denis Snegirev	The Selection of Machine Learning Model and Its Hyperparameters Using Bayesian Optimization for Short-Term Wind Power Forecasting (ID 2662)
14:30	Ismoil Odinaev	Methodology for Forming a Training Sample for Power Systems Emergency Control Algorithm Based on Machine Learning (ID 2709)
14:45	Alena Sidorova	Assessment of the Hydroelectric Power Plant Cascade Economic Efficiency (ID 2722)
15:00	Konstantin Suslov	Study of a Self-tuning Predictive Voltage and Frequency Controller on a Cyber-physical Model of a Distributed Generation Plant (ID 2694)
15:15	The first day closing	

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27 Sept.		
11:00	Automated Electrical Systems	
11:00	Yulia Sysoeva	Analysis of PWM Method for TFC (3L-NPC) (ID 2793)
11:15	Sergei Dekhtiar	Intermittent Arc Fault Model for Distribution Network (ID 2798)
11:30	Alena Sidorova	Influence of Machine Learning Method Choice on the Accuracy of Power Load Forecast Models and HPP Cascade Mode (ID 2858)
11:45	Alena Sidorova	Algorithm for Calculating the Water and Energy Mode of the Cascade of Hydroelectric Power Plants on the Basis of the Integrated Mathematical Model (ID 2861)
12:00	Pavel Bannykh	Voltage Stability Limit Calculation for Power Transfer Capability Between Two Area (ID 2773)
12:15 (online)	Kiryl Artsiomenka	Structural-Parametric Optimization of Automatic Control System for Power Unit 300 MW (ID 2697)
12:30	Diagnostic, Prognostic and Maintenance Methods and Tools	
12:30	Alina Stepanova	The Methodology for Overhead Power Transmission Lines Technical State Assessment Based on Machine Learning (ID 2771)
12:45	Elena Zinovieva	Localization of the Overhead Power Transmission Line Insulators Defects Using Computer Vision Algorithms (ID 2915)
13:00	Lunch	
14:00	Diagnostic, Prognostic and Maintenance Methods and Tools	
14:00	Alexey Romanov	MAD Robot: Concept and Prototype Description of the Robot for Multi-Spectral Power Equipment Diagnostics (ID 2910, ID 2911)
14:30	The second day closing	

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28 Sept.		
11:00	Information and Communication Technologies in Industry. Smart Grids & Microgrids	
11:00	Fedor Nepsha	Open Data Platform as a Source of Data-Driven Innovations in the Energy Sector (ID 2641)
11:15	Nikita Sergeev	Prediction the Power Generated Low-Power Wind Turbine Based on Multilayer Perceptron (ID 2749)
11:30	Vyacheslav Voronin	Analysis of the Efficiency of Electric Vehicle Charging Control in Urban Distribution Networks (ID 2836)
11:45	Vyacheslav Voronin	Power Consumption Management at Coal Mining Enterprises: Demand Response and Tariff-based Mechanisms (ID 2762)
12:00	Andrey Bramm	Effects of the Hyperparameters of the Firefly Optimization Algorithm on the Renewable Energy Sources Power Plants' Optimal Placement Problem Results (ID 2699)
12:15	Artem Tronin	Application of Optimized Wavelet Transformation for Analysis of Digital Substation Electrical Equipment Operating Modes (ID 2746)
12:30	Igor Grekhnev	Comparative Analysis of Machine Learning Algorithms and Evaluation of the Effectiveness of Temperature Forecast and Day of the Week in Predicting Electricity Consumption (ID 2717)
12:45 (online)	Tuvshin Osgonbaatar	Ensemble Machine Learning Model for Day Ahead Solar Power Forecasting (ID 2749)
13:00	Lunch	
14:00	Power Equipment, Electrical Machines and Drives	
14:00	Danil Davydov	Conversion of a Spark-Ignition Gasoline Engine to Syngas: Assessment of Technical and Economic Indicators Based on Numerical Modeling (ID 2649)
14:15	Iliia Bezdenezhnykh	Advantages of Synchronous Reluctance Motors and Synchronous Motors with Permanent Magnets as Drive of Liquid Natural Gas Submerged Pumps for Process Loss Reduction (ID 2693)
14:30	Vladislav Popovtsev	Improvement of Voltage Distribution Uniformity Factor for Glass Suspension Insulator String (ID 2920)
14:45	Vladislav Popovtsev	Research of Alternative Arc Extinguishing and Insulating Gas Media to SF6 (ID 2921)
15:00	Evgeniy Shmakov	Reconstruction of Volumetric Force Density in Single-Sided Linear Induction Motors (ID 2930)
15:15	Victor Lytkin	Feasibility of Producing Magnetic Wedges of Figured Shape for AC Electric Motors (ID 2698)
15:30 (online)	Nadzeya Papkova	Comparative Analysis of Active Power Losses per Corona Using the Example of 330 kV Overhead Lines (ID 2666)
15:45 (online)	Yaroslav Potachits	Determination of the Place of Destruction of Electrical Apparatus Under Dynamic Influence of Short-Circuit Currents (ID 2723)
16:00	THE CLOSING CEREMONY	
17:00	GALA DINNER	