

3rd 2021 International Youth Conference on Radio Electronics, Electrical and Power Engineering (REEPE), IEEE

The Official Language of Conference is English.

Registration of Participants – March 11, 2021, from 11:30 till 12:40
«MPEI», Moscow, Krasnokazarmennaya st. 17, Room Г-200 (G-200)

Opening the Conference Event

(March 11, 2021) (13:00 – 15:00)

1. **Vice-Rector for Scientific Work:** Dr. Viktor Karpovich Dragunov, Professor, Moscow Power Engineering Institute, Moscow, Russian Federation.
2. **Faculty Dean of Institute of Electric Power Stations and Systems:** Dr. Vladimir Nikolaevich Tulsy, Associate Professor, Electrical Power System department, Moscow Power Engineering Institute.
3. **Vice-Rector for science and innovation:** Dr. Abdullo Mamadamon Abdurahmonbek, Associate Professor, Tajik Technical University named after M.S. Osimi, Dushanbe, Republic of Tajikistan.
4. **General Chair of the IEEE-REEPE conference:** Dr. Rinat Nasirov, Associate Professor, Electrical Power System department, Moscow Power Engineering Institute.
5. **Co-Chair and Technical Program Chair of the IEEE-REEPE conference:** Dr. Mohamed A. Tolba, Assistant Professor, Egyptian Atomic Energy Authority, Cairo, Egypt. Assistant Professor, Electrical Power System department, Moscow Power Engineering Institute.
6. **Plenary Speaker:** Dr. Ahmed A. Mohamed, Associate Professor, Ph.D. Program Advisor, Department of Electrical Engineering, Grove School of Engineering, City University of New York, City College, New York, USA. The presentation topic is: *“Critical Infrastructure Interdependencies”*.
7. **Plenary Speaker:** Dr. Ali M. Eltamaly, Full Professor, Department of Electrical Engineering Department, Mansura University, Mansura, Egypt. Chair professor, King Saud University, Riyadh, Saudi Arabia. The presentation topic is: *“Modern Maximum Power Point Tracker Techniques for Photovoltaic Energy Systems”*.
8. **Plenary Speaker:** Dr. M. Mofazzal Hossain, Full Professor, Department of Electrical and Electronic Engineering, University of Liberal Arts Bangladesh, Dhaka, Bangladesh. The presentation topic is: *“Outcome Based Education and Importance of Accreditation in Engineering Education”*.
9. **Plenary Speaker:** Dr. Ayman A. Eisa, Associate Professor of Electrical Engineering, Egyptian Atomic Energy Authority (EAEA), Cairo, Egypt. The presentation topic is: *“A Physical Analogy of Electric Energy Flow under Sinusoidal and Non-sinusoidal Conditions”*.

10. **Plenary Speaker:** Dr. Wael M. S. Yafooz, Associate Professor, Department of Computer Science, College of computer science and engineering, Taibah University, Saudi Arabic. The presentation topic is: *“Big data challenges and solutions”*.
11. **Plenary Speaker:** Dr.-Ing. Stefan Palis, Professor, Department of Control of Distributed-Parameter Systems, Faculty of Electro Engineering and Information Technology, Otto-von-Guericke University Magdeburg, Germany. The presentation topic is: *“Data-driven control using Koopman operators”*.
12. **Plenary Speaker:** Dr. David Pozo, Associate Professor, Center for Energy Science and Technology, Skolkovo Institute of Science and Technology, Moscow Russian Federation. The presentation topic is: *“The value of data in power systems”*.

Coffee Break 15:00 – 15:30

Conference Program (March 11, 2021) (15:30 – 18:00)

Starting the participant presentations

{Each Participant has 10 minutes for introducing presentation and questions by attendees}

Section A: Power, Energy and Industry Applications; Room (G-200)

1.	Power Flow Control Using Transformer-less Static Synchronous Series Compensators	<i>Ahmed Elsayed ElGebaly, Evgeniy Aleksandrovich Vershanskiy, Pavel Ahmatovich Rashitov, Dmitry Ivanovich Panfilov</i>	Attend
2.	Lightning Measurement in Sarawak, Malaysia: First Results	<i>Nor Asrina binti Ramlee, Noor Azlinda binti Ahmad, Zikri Abadi Baharudin</i>	Online
3.	Three-Phase Induction Motor Short Circuits Fault Diagnosis using MCSA and NSC	<i>Muhammad Deeb, Nikolay F. Kotelenets, Talal Assaf, Hamdy M. Sultan, Ahmed S.Al akaysheedpt</i>	Attend
4.	Electromagnetic Moment Increasing of Superminiature Electric Motor with Excitation by Rare Earth Permanent Magnets	<i>Roman A. Romanov, Tatyana V. Myasnikova, Igor A. Savostianov, Oksana V. Sveklova, Elmira M. Artukaeva</i>	Attend*
5.	Electrical Safety Assessment in Distribution Networks Considering the Cable Conducting Sheaths Currents	<i>Ksenia Vladimirovna Kolesnikova, Yuri Pavlovich Gusev, Nickolay Nickolaevich Smotrov, Cho Gvan Chun</i>	Attend
6.	Comparative Analysis of Injuries Models and Methods Assessment in Power Industry with Cause-and-Effect Relationship	<i>Oleg A. Loktionov</i>	Attend
7.	Choosing The Suitable Working Fluid to Recover Heat from Low-Temperature Sources	<i>Baydaa Bo Dakkah, Ildar A. Sultanguzin, Yury V. Yavorovsky, Bassam E. Badran, Hussein A. Tina, Mohammad Yman Yassin Alsabbagh</i>	Attend
8.	Experimental Study of the Recovery of Low Heat Using the Organic Rankine Cycle	<i>Baydaa Bo Dakkah, Ildar A. Sultanguzin, Yury V. Yavorovsky, Bassam E. Badran, Hussein A. Tina</i>	Attend

9.	Gasification of municipal solid waste has high moisture content	<i>Nguyen Dinh Khuong, Nguyen Le Hoang, Stepanova Tatiana Aleksandrovna</i>	Attend
10.	A consumer-based approach to the design of distributed energy systems with solar photovoltaic generation	<i>Daniel A. Perez-Moscote, Mikhail G. Tyagunov</i>	Attend
Section B: Power, Energy and Industry Applications, Components, Circuits, Devices and Systems, Computing and Processing, Fields, Waves and Electromagnetics; Room (D-213)			
1.	Creation of an interactive geo-information model of the multifunctional magnetic levitation transport system ELTRO in Naypyidaw, Republic of Myanmar	<i>Thaw Zin Htay, Vladimir G. Komarov, Vladimir A. Glushenkov</i>	Attend*
2.	Method of Reducing the Amplitude and Phase Spectrum Measurement Error of the Power Quality Measuring Instruments	<i>Andrey N. Serov, Dmitry A. Chumachenko, Alexander A. Shatokhin</i>	Attend
3.	Usage of RMarkdown and Bookdown for Educational and Scientific Writing	<i>N.O. Strelkov, V.V. Krutskikh</i>	Attend
4.	Program for energy efficiency analysis of the multifunctional magnetic levitation transport system, ELTRO	<i>Aung Soe Moe, Vladimir Alexandrovich Glushenkov, Vladimir Gejrgievich Komarov</i>	Attend*
5.	Usage of R Language for Universal Calculations and Simulations	<i>N.O. Strelkov, V.V. Krutskikh</i>	Attend
6.	Approach to composition of power balance of electric networks	<i>Vadim A. Ageev, Konstantin A. Dushutin, Dmitriy S. Repeyev, Dmitriy V. Kazakov, Pavel A. Volgushev, Alexander I. Burnaev</i>	Attend*
7.	Overview on Hiding Data in Microsoft Office Documents	<i>Alexander V. Sergeev, Pavel B. Khorev</i>	Attend
8.	Software for data analysis and prediction of bankruptcy of organizations in the fuel and energy complex	<i>Alla V. Vinogradova, Alexey I. Lazarev, Pavel S. Kharlamov</i>	Attend*
9.	Algorithms for Determining the Essential Features of the Travelling Wave for Fault Location Purpose	<i>Rustem G. Khuziashev, Igor L. Kuzmin, Iluza I. Irkagalieva, Alexander M. Makletsov</i>	Attend
10.	Message approach for multiuser mode of a client-server application	<i>Ivan Igorevich Komarov, Aleksander Andreevich Gavrilov, Svetlana Dmitrievna Blazhenova, Ali Najievich Zein, Svetlana Vyacheslavovna Borisova, Sergey Konstantinovich Osipov</i>	Attend*
11.	Mathematical Modeling of Noise Attenuation in Dissipative Silencers of Irregular Shape	<i>Andrey A. Taratorin, Ainur B. Mukhametov</i>	Attend*

**Section C: Power, Energy and Industry Applications, Components, Circuits,
Devices and Systems, Computing and Processing, Fields, Waves and
Electromagnetics; Room (D-205)**

1.	Robust Bayesian Regression Model of Centrality and Voltage Stability Index for Power Networks under Nodal Attack	<i>Deepak Kumar Panda, Saptarshi Das</i>	Online
2.	Operational Control, Monitoring and Diagnostics of the Technical Condition of Steam Turbine Installations of Thermal Power Plants	<i>Sultanov M.M., Chubko Yu.M., Blagochinov A.V., Kuryanova E.V.</i>	Online
3.	Development of a mathematical model for evaluating the technical condition of boiler plants in terms of reliability and efficiency	<i>Ivanitckii M.S., Sultanov M.M., Kuryanova E.V.</i>	Online
4.	Development of Approaches to Assessing the Actual Technical Condition of Steam Turbines Based on Reliability Indicators	<i>Sultanov M.M., Ivanitckii M.S., Lunenko V.S.</i>	Online
5.	Research of the process of disinfection and purification of drinking water using ETRO-02 plant based on high-frequency corona discharge	<i>Abdykadyrov Askar, Korovkin Nicolay, Tashtay Yerlan, Syrgabaev Ilias, Mamadiyarov Maxat, Marxuly Sunggat</i>	Online
6.	STEM and STEAM Technologies in Problem Solving with Python	<i>Svistkov Alexander, Sutchenkov Anton, Tikhonov Anton</i>	Attend
7.	Analysis of the Applicability of Key Risk Assessment Methods for Solving Problems of Reducing Accidents at Energy Facilities	<i>Olga E. Kondrateva, Mikhail K. Romashov, Oleg A. Loktionov</i>	Attend
8.	Development of Indicators to Assess the Effectiveness of the Implementation of the Best Available Technologies in the Energy	<i>Anastasiya M. Borovkova, Olga E. Kondrateva, Roman A. Anisimov, Evgenii G. Gasho</i>	Attend
9.	Using a Neural Network in a Thermophysical Problem	<i>Michael M. Vinogradov, Arslan R. Zabiroy, Irina A. Molotova, Ivan M. Molotov</i>	Attend*
10.	Impact Assessment of Weather and Climate Events on Overhead Transmission Lines Reliability with Voltages up to 110-220 kV	<i>Olga E. Kondrateva, Ekaterina M. Voronkova, Oleg A. Loktionov</i>	Attend

Conference Program (March 12, 2021) (10:00 – 12:30)

Starting the participant presentations

{Each Participant has 10 minutes for introducing presentation and questions by attendees}

Section A: Power, Energy and Industry Applications; Room (D-213)

1.	A feasibility study on CSP technology to comply with Bangladesh to its power system competency	<i>Md. Asif Abbas, Nazmul Hasan, Syed Redwan Md. Hasan</i>	Online
2.	Research of the effect of an additional signal on the control process of a single-circuit automatic control system with a neuroregulator	<i>Danila A. Dementev, Ekaterina D. Maximova, Ivan A. Sysoletin, Alexandr V. Andrushin</i>	Attend*
3.	Wide Area Monitoring System (WAMS) Application in Smart Grids	<i>Zolin Dmitry Sergeevich, Ryzhkova Elena Nikolaevna</i>	Attend*
4.	Improving Safety of Works under Induced Voltage Taking Into Account the Asymmetric Operation Mode of the Influencing Line	<i>I.V. Korolev, O.S. Shcherbacheva, N.V. Zvonkova, A.A. Zavyalova, A.A. Zakrevsky</i>	Attend
5.	Ferroresonance Occurrence Conditions in a Simple Nonlinear Circuit	<i>Danil K. Buslaev, Lev D. Ziles, Julia K. Ochkovskaya</i>	Attend
6.	Developed of Real Time Simulator for Wind Energy Systems	<i>Mahmoud M. Hussein, Shazly A. Mohamed</i>	Attend
7.	An experimental study of unsteady cooling of cylindrical bodies in ethanol-water mixtures	<i>Irina Molotova, Arslan Zabirov, Victor Yagov, Michael Vinogradov, Ivan Molotov</i>	Attend*
8.	Effect of surfactant concentration on the beginning of intensive cooling regime in subcooled water	<i>Arslan Zabirov, Victor Yagov, Maxim Lexin, Irina Molotova</i>	Attend*
9.	Modification of methods for optimization of electrical network modes in order to reduce power losses for corona discharge	<i>Alexander Rakhaev, Evgeny Shishkov</i>	Attend
10.	Microgrid Impact Analysis on Power Supply System	<i>Sultanov M.M., Zenina E.G., Zhelyaskova O.I., Norov D. Sh.</i>	Online

Section B: Power, Energy and Industry Applications, Components, Circuits, Devices and Systems, Computing and Processing, Fields, Waves and Electromagnetics; Room (D-205)

1.	Contactless access control system for critical objects based on deep learning neural networks	<i>Tyutyunnik Alexander Anatolyevich, Lobaneva Ekaterina Ivanovna, Lazarev Alexey Igorevich</i>	Attend*
2.	Investigation of Ultra-Wide Band Local Positioning System Accuracy Using Precise Laser Equipment	<i>Roman Kulikov, Alexander Chugunov, Nikita Petukhov, Valery Semenov, Alexander Malyshev</i>	Attend

3.	The Effects of Hidden Aneurysms on the Posterior Flow: Computational Fluid Dynamic Study	<i>Anastasia A. Koroleva, Maria R. Kodenko, Denis V. Leonov, Nicholas S. Kulberg, Natalia A. Lisenko, George K. Grigorev, Olesya A. Mokienco, Anton V. Vladzimirskyy, Sergey P. Morozov</i>	Attend
4.	Assessment of technical condition of condensers of TPP steam turbines according to the data of the power equipment parameters monitoring system	<i>Sultanov M.M., Boldyrev I.A., Menshikov P.D., Chumakov N.G.</i>	Online
5.	Research of power supply system modes with nonlinear and linear loads connected to different winding of the transformer	<i>Kostin Vladimir Nikolaevich, Serikov Vladimir Alexandrovich, Krivenko Alexander Vladimirovich, Ivanova Tatyana Sergeevna</i>	Attend
6.	Engineers Training Specifics According to Electrical Engineering Educational Program in the Context of Distance Learning	<i>Anna A. Zavyalova, Ilya V. Korolev I.V., Elena V. Fedorova, Anastasia M. Borovkova, Vladimir S. Malyshev</i>	Attend
7.	Electrical reliability simulation based on analysis of fatigue strength of overhead line wires	<i>Kul'kov V.G., Sultanov M.M., Kuryanov V.N., Norov D. Sh.</i>	Online
8.	Clearness Index Determination in Santo Domingo To Predict the Solar Radiation	<i>D. Rosario, R. Echarri, I. Samson</i>	Online
9.	EMD-Based Noise-Robust Method for Speech/Pause Segmentation	<i>Alan K. Alimuradov, Alexander Yu. Tychkov</i>	Attend*
10.	Using a Neural Network in a Thermophysical Problem	<i>Michael M. Vinogradov, Arslan R. Zabiroy, Irina A. Molotova, Ivan M. Molotov</i>	Attend*

Coffee Break 12:30-13:30

Continuing the participant presentations (13:30-16:00)

Section A: Power, Energy and Industry Applications; Room (D-213)

1.	Analysis of the Temperature Non-Uniformity of the Rotor Winding of a Powerful Air-Cooled Turbogenerator	<i>Nikolay V. Korovkin, Dmitry Verkhovtsev, Stanislav Gulay, Maksim Maiantcev, Andrei Liamin</i>	Attend
2.	Assessment of the potential for power deficit reduction using renewable energy sources. The case of Lebanon	<i>Ramzi El Dobeissi, Artem Vanin, Rinat Nasyrov, Yuri Sharov</i>	Online
3.	Energy and economic assessment of composite products production on the example of pipe products	<i>Konstantin V. Strogonov</i>	Attend*
4.	Impacts of COVID-19 on the Electrical Power Dynamics and Environment of Bangladesh	<i>Shameem Hasan, Mirza Rasheduzzaman, M. Mofazzal Hossain</i>	Online
5.	Analysis of the impact of a microgrid on the reliability of the power system	<i>Mahsud M. Sultanov, Natalia V. Baidakova, Olga I. Zhelyaskova, Ekaterina V. Ilyukhina</i>	Online
6.	Dispatch Optimization of Energy Communities for Collective Provision of Network Congestion Management	<i>Artem Vanin, Shchurovskaya Ellina, Pedro Juliano Nardelli, Aleksei Mashlakov</i>	Attend

7.	Power transformer relay protection with its condition monitoring function	<i>Piskunov Sergey Aleksandrovich, Mokeev Alexey Vladimirovich</i>	Attend*
8.	BOC-by-BPSK signal processing algorithm for BOC and AltBOC signals	<i>Olga K. Mikhaylova, Ilya V. Korogodin</i>	Attend
9.	Subnanosecond synchronization method based on the synchronous Ethernet network	<i>Alexander A. Deev, Andrei A. Kalshchikov</i>	Attend*
10.	Analysis of Thermal Power Plant Main Power Equipment Depreciation Effect on its Efficiency	<i>Sultanov Makhsud Mansurovich, Griga Stepan Anatolyevich, Konstantinov Anatoliy Alekseevich</i>	Online

Section B: Power, Energy and Industry Applications, Components, Circuits, Devices and Systems, Computing and Processing, Fields, Waves and Electromagnetics; Room (D-205)

1.	Study of TPMV-1S radio absorbing material for use on spacecraft	<i>Petr A. Zhukov, Vladimir Yu. Kirillov, Maksim M. Tomilin</i>	Attend*
2.	LoRaWAN gateway coverage evaluation for smart city applications	<i>Andrey V. Terleev, Artem A. Khalturin, Vadim A. Shpenst</i>	Attend*
3.	Machine Learning Based Computational Electromagnetic Methods for Intelligence CAD/CAE Application	<i>Maxim A. Dubovitskiy, Soltanbek Yu. Pashaev, Aleksandr O. Zhukov</i>	Attend
4.	Estimation of Aperture Antennas Near-Field with Mutual Coupling Consideration	<i>Maxim A. Dubovitskiy, Mikhail S. Mikhailov</i>	Attend
5.	The Economic Effect Determination for Combined Cycle Power Plant with Pressurized Heat Recovery Steam Generator	<i>Khokhlov D.A., Khokhlova D.A., Sterkhov K. V., Zaichenko M. N., Likholetova V.S.</i>	Attend
6.	Properties of SAW Vibration Sensors Applicable in the Field of Power Engineering	<i>Merkulov Andrey Aleksandrovich, Zhgoon Sergei Aleksandrovich, Shvetsov Aleksandr Sergeevich, Belyankin Nikita Andreevich</i>	Attend
7.	Application of the distance learning technologies when mastering the discipline “Theoretical foundations of electrical engineering”	<i>Marina P. Zhokhova, Irina V. Putilova, Mariia V. Karpunina</i>	Attend*
8.	An Ultrasonic Vision based on a Neural Network for Navigating Robots Through Obstacles	<i>Roman Kulikov, Natalya Masalkova, Oleg Glukhov, Alexander Chugunov, Valery Semenov</i>	Attend
9.	Analysis of the DCS Historical Data for Estimation of Input Signal Significance	<i>Edik K. Arakelyan, Makhsud M. Sultanov, Ilya A. Boldyrev, Yulia A. Gorban, Kirill V. Evseev</i>	Online
10.	Efficient utilization of the Power Grid using FACTS devices based on a New metaheuristic Optimizer	<i>Ahmed A. Shehata, Nikolay V. Korovkin, Mohamed A. Tolba, Vladimir N. Tulsky</i>	Attend

Conference Program (March 13, 2021) (10:00 – 12:30)

Starting the participant presentations

{Each Participant has 10 minutes for introducing presentation and questions by attendees}

Section A: Power, Energy and Industry Applications; Room (D-213)

1.	New energy production concept in the Republic of Ingushetia	<i>Magomed I. Malsagov, Galina R. Titova</i>	Attend*
2.	Design of a cylindrical geometry evaporator for the cold production of an adsorption solar cooler	<i>Ivan A. Dyadichenko, Yahira L.Ogando De Oleo, Inna F. Samson</i>	Attend
3.	The Increasing of the Nuclear Fuel Usage and the Safety Efficiency of VVER-Type Reactors by Using Fossil-Fired Steam Superheating	<i>Vyacheslav S. Kostarev, Ivan A. Shirmanov, Danil N. Litvinov, Sergey E. Shcheklein</i>	Online
4.	An experimental investigation of film boiling with submerged impinging jet	<i>Pavel K. Kanin, Tatyana A. Gubanov, Arslan R. Zabiroy, Alexey V. Shcherbakov, Victor V. Yagov</i>	Attend*
5.	Research of partial discharge characteristics in XLPE-insulated cables with single and multiple defects	<i>Dmitry A. Polyakov, Ilya V. Komarov, Amir B. Sarsembayev, Konstantin I. Nikitin, Ulyana V. Polyakova</i>	Attend
6.	Comparison of modern optimization algorithms for automated control tasks	<i>Daria M. Krasnenko, Aleksandr S. Pomogaev, Anton S. Shtylenko, Danila A. Dementev</i>	Attend*
7.	Characteristics Research of a Permanent Magnet Linear Synchronous Motor Driving Piston Compressor	<i>Andrey A. Tatevosyan, Dmitry A. Polyakov, Mikhail A. Kholmov</i>	Online
8.	Multilevel Voltage Control in Power Distribution Networks	<i>Vladimir Korolev, Artem Vanin, Anastasiia Chernysheva, Rostyslav Hoienko, Vladimir Tulsy, Michael Astashev</i>	Attend
9.	Application of intelligent electricity metering systems for timely adjustment of standard values for electrical loads calculation	<i>Yuriy I. Soluyanov, Alexander I. Fedotov, Azat R. Akhmetshin, Vladimir I. Soluyanov</i>	Attend
10.	Energy efficient employment of Used Petroleum Products as fuel based on environmental norms	<i>Vitaliy A. Kozhevnikov, Stanislav K. Popov</i>	Attend*

Section B: Power, Energy and Industry Applications, Components, Circuits, Devices and Systems, Computing and Processing, Fields, Waves and Electromagnetics; Room (D-205)

1.	Adapting SCMA Codebooks to Channel State	<i>Dmitriy A. Pokamestov, Yakov V. Kryukov, Eugeny V. Rogozhnikov, Islam Kanatbekuli</i>	Attend*
2.	Dynamic economic dispatch in isolated microgrids incorporating the energy storage system	<i>Gvan Chun Cho, Igor D. Vitlinsky, Victor A. Menshov, Deni Z. Isaev, Arina A. Konstantinova, Yuri Bubnov, Aleksander Poluektov</i>	Attend*

3.	Synthesis and Experimental Accuracy Assessment of Kalman Filter Algorithm for UWB ToA Local Positioning System	<i>Nikita Petukhov, Alexander Chugunov, Vladimir Zamolodchikov, Dmitry Tsaregorodtsev, Ilya Korogodin</i>	Attend
4.	The Formation of nanosuboxide layers in the oxide of niobium in low-power ion beam of argon	<i>Denis S. Lukiantsev, Alexandr V. Lubenchenko, Dmitry A. Ivanov, Olga I. Lubenchenko, Alexey B. Pavolotsky, Vladimir A. Iachuk, Oleg N. Pavlov</i>	Attend*
5.	Justification of Boeing 777 Flight Crew Actions in the Conditions of Complicated Navigation Situation	<i>Aleksandra A. Zaitseva, Konstantin A. Kuts, Maxim A. Dubovitskiy</i>	Attend
6.	Modeling of energy saving in substations feeding DC metro systems based on appropriate location of energy storage elements	<i>Aleksei Korolev, Maxim Shevluygin, Mikhail Belov, Dmitry Pletnev, Alexander Murzintsev, Ksenia Zhgun</i>	Attend
7.	Analysis of Processes in the Boost DC-DC Converter with Sliding Mode Control	<i>Ekaterina Erokhina, Mikhail Kiselev, Konstantin Kryukov, Yuriy Tserkovsky, Mikhail Lapanov</i>	Attend
8.	Artificial Neural Network in the Control Loop of a Wheeled Robot	<i>Oleg Glukhov, Natalia Masalkova, Roman Kulikov, Tatiana Brovko, Dmitry Tsaregorodtsev</i>	Attend
9.	The Development of Automation System of Frequency Responses Estimation for Ultrasonic Sounding	<i>Pavel A. Kaznacheev, Denis V. Krayushkin, Viktor V. Kokh, Zinovii-Yurii Ya. Maibuk, Alexander V. Ponomarev</i>	Attend
10.	Prototype of Intelligent Real-Time Decision Support System Based on Anytime Algorithms and NO-SQL Database	<i>Alexander Ereemeev, Iliia Poliushkin, Nikolai Paniavin, Maksim Sergeev, Mikhail Marenkov, Vladimir Petrov</i>	Attend*

Coffee Break 12:30-13:30

Continuing the participant presentations (13:30-16:00)

Section A: Power, Energy and Industry Applications; Room (D-213)

1.	Mathematical Modeling of Asynchronous Motors for Calculating Short-Circuit Currents	<i>Abdullo Majidov, Shahboz Hafizov, Temirkhan Isaev, Rustamzhon Nortozhiev, Magomed Pashaev, Kamoldzhon Yuldashev</i>	Attend
2.	Development of a Micro-Power Systems Model for the Study of Price-Dependent Management Method	<i>Abdullo Majidov, Shahboz Hafizov, Temirkhan Isaev, Rustamzhon Nortozhiev, Okoth Jessygrey, Kamoldzhon Yuldashev</i>	Attend
3.	Comparison of The Methodology for Calculating Short-Circuit Currents Taking into Account Asynchronous Motors	<i>Abdullo Majidov, Shahboz Hafizov, Temirkhan Isaev, Rustamzhon Nortozhiev, Magomed Pashaev, Kamoldzhon Yuldashev</i>	Attend
4.	Study of processes that cause degradation of lithium-ion batteries	<i>Nikita S. Popov, Vladislav I. Anibroev, Mikhail M. Mosin</i>	Attend*
5.	Solution of electric drive with a variable moment of inertia	<i>Viktor I. Domanov, Dmitriy G. Murzakov, Andrejj V. Domanov</i>	Attend
6.	Wind Farms Generation Deviation in Electric Power System	<i>Oleg Yu. Sigitov, Nailya Sh. Chemborisova</i>	Attend

7.	The water and air distribution law analysis in natural draft cooling towers	<i>Ayrat I. Badriev, Irina V. Makarova</i>	Attend
8.	Automated ventilation system for electric motor	<i>Aksiniia Serdtseva</i>	Attend
9.	Intelligent engineering of electric energy storage systems in the Russian Federation: Fundamentals	<i>Andrei A. Samoilov, Maria M. Sergeeva, Maxim V. Burmeyster, Elizaveta A. Kislova, Stepan A. Zaliznyi</i>	Attend
10.	Application of a Battery Energy Storage System to Reduce Fluctuations in the Power Output of a Wind Farm Integrated into the Power System	<i>Ramis V. Bulatov, Rinat R. Nasyrov, Maxim V. Burmeyster, Mikhail O. Polyakov, Ilya I. Berdyshev, Timur A. Bidzhiev</i>	Attend

Section B: Power, Energy and Industry Applications, Components, Circuits, Devices and Systems, Computing and Processing, Fields, Waves and Electromagnetics; Room (D-205)

1.	Development of a centralized system for data storage and processing on operation modes and reliability indicators of power equipment	<i>Mahsud M. Sultanov, Yulia A. Gorban, Aleksey A. Smirnov, Viktor A. Yurov</i>	Online
2.	A Review of Extracting and Mining User Interest from Social Media Based on Personality	<i>Marwa M. Alrehili, Wael M.S. Yafooz</i>	Online
3.	Overview of drum boiler separation devices	<i>Dmitry V. Gorburov, Irina V. Putilova, Maria D. Moldareeva</i>	Attend*
4.	Welford's algorithm for weighted statistics	<i>Andrey A. Efanov, Sergey A. Ivliev, Alexey G. Shagraev</i>	Attend
5.	Development of a methodology for the assessment of the actual contribution of a certain consumer to the distortion of the voltage sinusoid	<i>Anna Y. Gerasimiyuk, Natalia V. Smokovenko, Rinat R. Nasyrov, Dmitry A. Kalenkin</i>	Attend
6.	The use of technical vision in the robotic cash counting area	<i>Pavel V. Trunov, Elvira V. Fadeeva, Anton B. Gavrilenko</i>	Attend*
7.	Boundary-value static problem and modeling of elastic deformations of structures	<i>T.B. Duishenaliev, S.V. Ushanov, M.S.Salimov</i>	Attend*
8.	Magnetic Bearing with HTS Tapes for Flywheel Energy Storage System	<i>Egor A. Kuschenko, Ekaterina P. Kurbatova, Timofey A. Zolotarev, Mikhail A. Sysoev</i>	Attend
9.	Thermal-hydraulic analysis of VVER-1000 using TRETON code	<i>Aljasar S. A., Naymushin A. G., Bedenko S. V., Yubin Xu</i>	Attend*
10.	Prospects for distributed generation development in the Russian Federation	<i>Anastasia Y. Starkova, Aleksandr A. Chegodaev, Rinat R. Nasyrov</i>	Attend
11.	Integration of DGs Optimally to Enhance the Voltage Profile and Stability Index of Distribution Grid	<i>Mohamed A. Tolba, Vladimir N. Tul'sky</i>	Attend

The End of Conference, Discussions, Certificates (16:00-16:30)

- A- General Chair of the conference:** Dr. Rinat Nasirov, Associate Professor at Electric Power System department, Moscow Power Engineering Institute.
- B- Co-Chair and Technical Program Chair of the conference:** Dr. Mohamed A. Tolba, Assistant Professor, Ph.D., Electric Power System department, Moscow Power Engineering Institute.
Assistant Professor, Ph.D., Egyptian Atomic Energy Authority, Cairo, Egypt.