



SIELMEN 2019

PROGRAM

OF THE 12th INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND ENERGY SYSTEMS

Organized by

FACULTY OF ELECTRICAL ENGINEERING OF CRAIOVA - ROMANIA

FACULTY OF ELECTRICAL ENGINEERING OF IASI – ROMANIA

**FACULTY OF POWER AND ELECTRICAL ENGINEERING CHIȘINĂU -
MOLDOVA**

Partners

IEEE ROMANIA SECTION, CHAPTERS CONTROL SYSTEMS, POWER ELECTRONIC

MINISTERUL CERCETARII SI INOVARII - ROMANIA

AGENȚIA NAȚIONALĂ PENTRU DEZVOLTARE ȘI CERCETARE – Rep.Moldova

ASOCIAȚIA CONSUMATORILOR DE ENERGIE DIN MOLDOVA

October 9, Craiova, Romania

October 10 – 11, Chișinău, Republic of Moldova

CONFERENCE AGENDA

Wednesday, October 9 University of Craiova, Faculty of Electrical Engineering Council Hall,107 Decebal Blv	
10h00-12h30	Workshop <i>New trends in electromechanical systems</i>
Thursday, October 10 Chişinău – Republic of Molodova	
12h00-14h00	Registration of participants and distribution of conference materials Tekwill Center, no.9/11 Studentilor, Chisinau, Rep.of Moldova
14h00-15h00	Opening Ceremony of Conference Tekwill, Imaginarium Hall
15h00-16h30	Plenary session - Keynote Speeches Tekwill, Imaginarium Hall
16h30-17:00	Coffee break
17h00-18h30	Posters Session Tekwill, FabLab UTM
19:00	Festive dinner Restaurant Banquet Premium 11/1 Bul. Moscovei, Chisinau

Friday, October 11
Chişinău, Technical University of Moldova
Faculty of Power and Electrical Engineering
 No.78, 31 August str.
Oral Sessions

Time	Sections	Room
9h00-10h45	Industry Applications	2-218
	Electrical Apparatus	2-126
	Electrical machines	2-117
	Power Electronics and Drives & Electric Traction and Automotive Equipments	2-236
	Energy Efficiency and Renewable Resources-1	2-222
	Metrology and Measurement Systems	2-137
	Tendences in Lighting Engineering	2-230
10h45-11h15	Coffee break	
11h15-13h00	Automation, Robotics and Mechatronics	2-218
	Electromagnetic Field and Electrical Circuits	2-126
	Energy Efficiency and Renewable Resources-2	2-222
	Engineering Education and Evocations & Materials, Eco-design and Electro-ecology	2-137
	Power Generation, Transport and Distribution & Management And Entrepreneurship	2-230
13h00-13h30	Farewell lunch	
13h30-14h00	Closing Session of the SIELMEN 2019 Conference	
14h00-15h45	Trip to the Chateau Vartely wine cellars, Orhei (optional)	

CRAIOVA, 9 October 2019, 10h00-12h30

Workshop: *New trends in electromechanical systems*

Council Hall, Faculty of Electrical Engineering, 107 Decebal Blv, Craiova

Chairmen: Sorin ENACHE, Daniel CISMARU

ID 133	<i>Modelling, Simulation and Monitoring of New Asynchronous Motor for EMU Train - Monica-Adela Enache, Aurel Câmpeanu, Sorin Enache, Ion Vlad, Radu Zlatian, Raluca-Cristina Presură</i>
ID 139	<i>Economic and Financial Analysis of Rehabilitation Solutions for an Education Institution- Felicia - Elena Stan – Ivan, Radu- Cristian Dinu</i>
ID 153	<i>Comparative Study Between Extended Gopinath Observer and EMF-MRAS Speed Observer Coupled with Gopinath Rotor Flux Observer for Sensorless Vector Control of Induction Motor Drives- Olimpiu Stoicuță, Teodor Pană</i>
ID 162	<i>Optimal Design of Asynchronous Motors used for Driving Coal Mills- Monica-Adela Enache, Aurel Câmpeanu, Sorin Enache, Ion Vlad, Marian Popescu</i>
ID 175	<i>Improvement of acting force of DC plunger–type electromagnet by six parameters optimization - Alin-Iulian Dolan</i>
ID 176	<i>Solution for Water Management Using a System Based on Microcontroller- Constantin - Florin Ocoleanu, Adrian-Mihai Nechita</i>
ID 190	<i>Calculating The Characteristics Of Multiple Cages Asynchronous Machine - Gabriela Dana Petropol Șerb, Ion Petropol Șerb</i>
ID 227	<i>Design, Simulations and Manufacturing of an Auxiliary Converter Used in Railway Applications- Radu Florin Marinescu, Petre Marian Nicolae, Adrian Hurezeanu, Diana Cristina Marinescu</i>

CHISINAU, 10 October 2019

Tekwill center, <https://www.tekwill.md/about>

no.9/11 Studentilor, Chisinau, Rep.of Moldova

Plenary Session (15h00-16h30)

Tekwill, Imaginarium hall

Chairmen: Dorin LUCACHE, Ilie NUCĂ, Sergiu IVANOV

Plenary 1	<i>Energy Transition – Advantages and Challenges for the Republic of Moldova (ID 161)</i>	Valentin Arion, Cristina Efremov
Plenary 2	<i>Study and Analysis of the Implementation of the Electrical Energy Storage in Urban Cities of the Russian Federation (ID 249)</i>	Rinat Nasyrov, Vladimir Tulsy, Maxim Burmeyster, Ramis Bulatov, Aleksandr Chegodaev, Raseel Aljendy
Plenary 3	<i>Tradition and perspectives in Electrical Engineering Research – ICMET, the single testing institute in South-Est of Europe</i>	Marian Duță, Marcel Nicola
Plenary 4	<i>On Human Exposure to the Nowadays Electromagnetic Environment</i>	Alexandru Sălceanu

CHISINAU, 10 October 2019
Tekwiil, FabLab hall

SESSION POSTERS - 1(17h00-18h30)

Chairmen: Virginia IVANOV, Alexandru TARLAJANU, Olga PLOPA

ID 111	<i>A Modern Solution for Test Stand Control Gas Turbine – Filip Niculescu, Mirela Letiția Vasile</i>
ID 112	<i>Blended Teaching and Learning Solutions for Electrical Engineering Study Programs. Survey of a Project Proposal - Adrian Adăscăliței, Sebastian Teodor Arădoaiei</i>
ID 113	<i>A digital companion with FPGA - Mihaela Hnatiuc, Bogdan Hnatiuc</i>
ID 123	<i>Possibilities of Monitoring, Commands and Control of the Circuit Breakers- Marian-Bogdan Micu, Maricel Adam, Mihai Andrușca, Cosmin Nistor Deac</i>
ID127	<i>Aspects Regarding the Alternating Current Monitoring In Electrical Equipment Testing Installations - Cosmin-Nistor Deac, Maricel Adam, Alin Dragomir, Marian-Bogdan Micu</i>
ID 131	<i>Effects of the digital revolution on teaching and education - Daniela Popescu, Corina Dana Cernaianu, Radu Cristian Dinu</i>
ID 137	<i>Finding the Minimal Fitting Distance of a Lightning Rod Conductor - Elisabeta Spunei, Ion Piroi, Florina Piroi</i>
ID 140	<i>Comparative Simulation of the Dynamic Regimes of Resistive Heating Elements - Mitică Iustinian Neacă</i>
ID 142	<i>Phasing relevance on magnetic fields generated by overhead power lines -Bogdan Dumitru Alistar, Alexandru Salceanu, George Daniel Costin, Constantin Dan Neagu, Dragos Florin Bordeianu</i>
ID 144	<i>Upon the contribution of Image Currents on the magnetic Fields Generated by Overhead Power Lines - Alexandru Salceanu, Marius Paulet, Bogdan Dumitru Alistar, Oana Asimincesei</i>
ID 146	<i>Upon the influence of charge image on the electric field intensity - Alexandru Salceanu, Eduard Lunca, Bogdan Dumitru Alistar, Silviu Ursache</i>
ID 148	<i>Load Profile Identification using Independent Component Analysis - Elena-Crenguța Bobric, Daniela Irimia</i>
ID 149	<i>Aspects Regarding the Protection Relays from Power Substations - Marian Atănăsoaei, Maricel Adam, Mihai Andrușca, Alin Dragomir, Cosmin Nistor Deac</i>
ID 174	<i>Study Upon Specific Absorption Rate Values for Different Generations of Mobile Phones by Using a SATIMO-COMOSAR Evaluation Dosimetry System - Ovidiu Bejenaru, Cătălin Lăzărescu, Alexandru Sălceanu, Valeriu David</i>
ID 177	<i>Mapping Between Automotive SPICE 3.1 and IATF 16949:2016 to Support the Process-Optimization in the Development of Autonomous Vehicles - Simona Gifei (Aionoae), Alexandru Sălceanu</i>

ID 179	<i>DC Digital Gaussmeter Based on Linear Hall-Effect Sensor IC</i> - Silviu Ursache, Eduard Lunca, Silviu Vornicu
--------	---

SESSION POSTERS – 2 (17h00-18h30)

Chairmen: Cristian Gyozo HABA, Elisabeta SPUNEI, Viorica HLUSOV

ID 182	<i>The Simulation of the Positioning of a Lobot uHand STM 32 Structure</i> - Marian Ionescu, Florina Besnea, Ilie Borcosi, Gheorghe Gilca, S.I. Cismaru, Nicu George Bizdoacă
ID 184	<i>PC-Based Temperature and Humidity Recorder with USB Connectivity</i> - Eduard Lunca, Silviu Vornicu, Catalin Damian
ID 186	<i>Study of Electromagnetic Immunity of Motors used in Automotive Applications</i> - Marian Gliga, Calin Munteanu, Sergiu Andreica, Claudia Pacurar, Claudia Constantinescu, Adina Giurgiuman,
ID 199	<i>Optimal Voltage Control in Power Distribution Networks Using an Adaptive On-Load Tap Changer Transformers Techniques</i> - Bogdan Constantin Neagu, Gheorghe Grigoraş
ID 201	<i>Using Mono and Stereo Camera System for Static and Moving Objects Detection</i> - Catalin Damian, Daniel Grigorescu, Iulian Ghinda, Maria Robu
ID 203	<i>Using the Short Circuit Analysis in the Study of the Induction Machine Disconnection from the Grid</i> – Livia Cociu
ID 206	<i>Voltage Control in Microgrids in the Presence of Small-Scale Renewable Energy Source</i> - Bogdan Constantin Neagu, Mihai Gavrilăş, Gheorghe Grigoraş, Ovidiu Ivanov
ID 212	<i>A New PSpice Implementation of a Three-Phase Induction Machine Model</i> - Olga Plopa, Sebastian-Teodor Aradoaei, George-Andrei Ursan
ID 219	<i>Use of Electric circuits' Simulation Methods, as New Methods of Learning/Experimentation in an Electrical Laboratory</i> - George-Andrei Ursan, Maria Ursan, Olga Plopa
ID 231	<i>Modeling of Hybrid Systems with Petri Nets</i> - Mircea Adrian Drighiciu, Daniel Cristian Cismaru
ID 239	<i>Comparison of PWM Strategies for Three Level Inverters</i> - Sergiu Ivanov, Lucian Mandache, Virginia Ivanov, Alexandru Radu, Monica Roman, Razvan Prejbeanu
ID 246	<i>Qualitative and Quantitative Models Used For Faults Diagnosis of Power Converters</i> - Virginia Ivanov, Maria Brojboiu, Sergiu Ivanov
ID 247	<i>Environmental Pollution Control</i> - Mihail Sebastian Pascu, Romeo-Cristian Ciobanu, George-Andrei Ursan
ID 248	<i>Remote Data Acquisition and Monitoring for an Integrated air Pollutant Monitoring System</i> - Mihail Sebastian Pascu, Romeo-Cristian Ciobanu, George-Andrei Ursan, Ramona Simionescu

ID 252	<i>Vibration and Mechanical Shock Monitoring Using Flexible Piezoelectric Sensors</i> - Marius Pauleț, Olga Plopa, George-Andrei Ursan, Ileana Ursu
ID 255	<i>Installing PV Panels on a University Building: Comparison Between Two Different Climates</i> - Mohammed el Amine Boukli Hacene, Dorin Lucache
ID 272	<i>Optical Evaluation systems for anisotropic composite materials quality assessment</i> - George-Andrei Ursan, Olga Plopa, Cosmin Contofan, Mihaela Aradoaei, Maria Ursan

ORAL SESSION

CHISINAU, 11 October 2019

Faculty of Power and Electrical Engineering,

No.78, 31 August str. Chisinau

Technical University of Moldova, (Block 2)

ARM Automation, Robots and Mechatronics

Room 2-218 (11h15-13h00)

Chairmen: Irina COJUHARI, Marcel NICOLA

ID 167	<i>Sensorless Control for PMSM Using Model Reference Adaptive Control and back-EMF Sliding Mode Observer</i> - Marcel Nicola, Claudiu-Ionel Nicola
ID 168	<i>Sensorless Predictive Control for PMSM Using MRAS Observer</i> - Marcel Nicola, Claudiu-Ionel Nicola
ID 178	<i>Neural Network Based Traffic Sign Recognition for Autonomous Driving</i> - George-Zamfir Tiron, Marian-Silviu Poboroniuc
ID 195	<i>The Method for Synthesis the PI and PID Algorithms to the Model of Object with Inertia Second Order</i> - Bartolomeu Izvoreanu, Irina Cojuhari, Ion Fiodorov, Dumitru Moraru, Mihail Potlog
ID 223	<i>Fuzzy Sensor Network for Mobile Robots Navigation</i> - Victor Ababii, Viorica Sudacevschi, Victoria Alexei, Radu Melnic, Dimitrie Bordian, Ana Nistiriuc

EA Electrical Apparatus

Room 2-126 (9h00-10h45 & 11h15-13h00)

Chairmen: Nicolae MOGOREANU, Bogdan Hnatiuc,

ID 108	<i>Temperature monitoring system using an infrared temperature sensor connected to a PLC - Georgel Gabor, Georgian-Cosmin Pintilie, Adrian-Traian Plesca, Maricel Cardasim</i>
ID 114	<i>Switching transient regime of shunts release from a low voltage circuit breaker commanded by a PLC - Bogdan Hnatiuc, Marius Bortă, Mihaela Hnatiuc</i>
ID 115	<i>Analysis of sliding electromagnetic coupling parameters in a PLC automation system - Georgel Gabor, Adrian-Traian Plesca, Florin-Andrei Rusu, Costică Nițuca</i>
ID 122	<i>Methods for determining dielectric stresses in the windings of a transformer subjected to lightning impulse - Maria Cristina Nițu, Marcel Nicola, Marian Duță, Alin Mircea Benea</i>
ID 124	<i>Thermal Analysis of Hybrid Tankless Heating System - Georgian-Cosmin Pintilie, Adrian Traian Plesca, Dorin Dumitru Lucache</i>
ID 125	<i>New Materials for Heating Systems - Georgian-Cosmin Pintilie, Florin Rusu, Adrian Traian Plesca, Georgel Gabor</i>
ID 130	<i>Applications of voltage pulse generator to achieve current pulses of high amplitude- Ion Pătru, Marcel Nicola, Camelia Marinescu, Laurențiu Vlădoi, Maria Cristina Nițu</i>
ID 230	<i>New Solution for Cereals, Vegetables and Fruits Storage - Florinel Lupoiu, Adrian Plesca, Georgel Gabor</i>

EM Electrical Machines

Room 2-117 (9h00-10h45 & 11h15-13h00)

Chairmen: Tudor AMBROS, Alecsandru SIMION, Mihai IORDACHE

ID 103	<i>Investigation of a Magnetoresistive Angle Sensor Accuracy for BLAC Motor Control - Adrian Munteanu</i>
ID 118	<i>A study of an electric ATV by removing the termic motor - Florin Andrei Rusu, Gheorghe Livinț, Georgian Cosmin Pintilie</i>
ID 136	<i>An Implementation of the Image Processing Techniques for the Thermal Field Analysis of the Induction Machines - Adrian Dănilă</i>
ID 151	<i>Rotary Magnetostrictive Motor- Alexandru Dalea, Sorin Deleanu, Mircea Ignat, Mihai Iordache, Dragoș Niculae, Neculai Gălan</i>
ID 192	<i>Investigation of Idle Running and Short-Circuit Performance Improvement for an Asynchronous Traction Motor - Raluca Cristina Nicolae, Ion Vlad, Marian Ștefan Nicolae, Sorin Enache</i>
ID 202	<i>Outer Rotor PM Synchronous Generator for Household Wind Power Generation. Comparative study upon structural solution – Leonard</i>

	Livadaru, Bogdan Virlan, Adrian Munteanu, Alexandra Bobu, Ionuț Nacu , Alecsandru Simion
ID 204	<i>On the Electromagnetic Torque Expression of an Induction Machine Asymmetrical Supplied</i> – Livia Cociu, Voinea Radu Cociu
ID 266	<i>Phase shift elements used to start single phase induction motor-</i> Tudor Ambros, Marcel Burduniuc
ID 267	<i>Determination of the operating characteristics of the asynchronous motor in the basis of equivalent schema with mathcad application</i> - Leonid Iazlovetchi, Maria Iazlovetchi

PED Power Electronics and Drives ETAE Electrical Traction And Automotive Equipments

Room 2-236 (9h00-10h45 & 11h15-13h00)

Chairmen: Valentin OLESCHUK, Federico BARRERO,

ID 120	<i>Current-Feedback Control at Constant Sampling Frequency Applied in Rotor-Field-Oriented Induction Machine Drives</i> - Csaba Szabo, Eniko Szoke, Norbert Csaba Szekely, Vlad Zacharias
ID 135	<i>Multilevel Installation Based on Voltage Source Inverters Controlled by Synchronous Multi-Zone PWM</i> - Valentin Oleschuk, Vladimir Ermuratskii, Federico Barrero
ID 145	<i>Review of Methods and Techniques of Space-Vector PWM for Dual and Triple Inverters of PV Systems</i> - Valentin Oleschuk, Vladimir Ermuratskii
ID 169	<i>Power Factor Correction and Sensorless Control of PMSM Using FOC Strategy</i> - Claudiu-Ionel Nicola, Marcel Nicola, Sebastian Popescu, Marian Duță
ID 170	<i>Identification and Sensorless Control of PMSM Using FOC Strategy and Implementation in Embedded System</i> - Claudiu-Ionel Nicola, Marcel Nicola, Adrian Vintilaă, Dumitru Sacerdoțianu
ID 208	<i>Single Phase to Three Phase Converter</i> – Iurie Ermurachi, Vladimir Berzan, Sergiu Ivanov

ID 117	<i>On the Electromagnetic Field in the Surrounding Area of Railway Equipment and Installations</i> – Constantin Daniel Oancea, Florin Călin, Valentin Golea
ID 268	<i>Electrical buses: development and implementation in Chisinau municipality, Moldova-</i> Vitalie Esanu, Alexandr Motroi, Ilie Nucă, Iurie Nucă

EFEC Electromagnetic Field and Electrical Circuits

Room 2-126 (11h15-13h00)

Chairmen: Ion STRATAN, Camelia PETRESCU, Lucian MANDACHE

ID 121	<i>CSAP and TFSG – Circuit Symbolic Analysis Programs</i> – Diana SanatescuSorin Deleanu, Diana Sanatescu, Alexandra Ionescu, Atanasie Moscu, Lavinia Bobaru
ID 180	<i>Study of Cylindrical Dielectric-Conductor Open Waveguides</i> – Camelia Petrescu
ID 193	<i>Effect of Stochastic Electromagnetic Field on Particle Diffusion</i> – Iulian Petrișor
ID 229	<i>Parameter Identification for Two-Windings Power Transformers</i> - Ecaterina Murdid, Ion Stratan
ID 269	<i>Estimation the Possibility of Power Transfer of Self- Compensation Electrical Line with Incomplete Number of Phases</i> - Michail Kiorsak, Natalia Turturica
ID 251	<i>Capacitive C and RC sensorial test systems in LabVIEW graphic programming environment with NI USB-6210 acquisition board</i> - Olga Plopa, Marius Pauleț, George-Andrei Ursan, Laurențiu Ungureanu, Cristina Schreiner
ID 270	<i>Application of the Operational Method for Calculating the Mode of the Electrical Grid Circuit with Distributed Loads</i> -Dmitrii Vieru
ID 273	<i>Reliable time-domain analysis of nonlinear lumped circuits with topology issues, suitable for transients of AC drives</i> -, Lucian Mandache, Segiu Ivanov, Razvan Prejbeanu, Monica Roman, Ioana-Gabriela Sirbu, Virginia Ivanov, Alexandru Radu

IA Industry Applications

Room 2-218 (9h00-10h45)

Chairmen: Radu BURLICA, Gheorghe MANOLEA

ID 128	<i>Real-time Power Supply Service Monitoring in Industrial Electric Power Distribution Grid</i> - Ilie Vlasa, Adrian Gligor, Cristian-DraGoș Dumitru, Cătălin-Eugen Moldovan
ID 138	<i>Fuzzy Controller vs. Classical Methods for Determining the Degree of Polymerization</i> -Maria Cristina Nițu, Ancuța-Mihaela Aciu, Claudiu-Ionel Nicola, Marcel Nicola
ID 155	<i>Integrated remote reading solution of smart metering devices</i> - Ilie Vlasa, Adrian Gligor, Cristian-DraGoș Dumitru, Alexandru Marius Turc
ID 156	<i>Optimizing the structure of the rocket launcher monitoring system</i> – Gheorghe Manolea, Ionel Laurențiu Alboteanu, Alexandru Novac, Constantin Șulea-Iorgulescu, Sorin Stepan
ID 245	<i>Automation of Wastewater Treatment Plant</i> – Moldovan Artiom, Nucă Ilie

ID 263	<i>Voltage Polarity Influence on NTP Energy Efficiency of Point-to-Point Reactor-</i> Dragoș Astanei, Daniel Crețu, Radu Burlica, Iuliana-Delicia Dirlau, Oana Beniuga, Stephane Pellerin, Maxime Wartel
ID 264	<i>Capacitive Power Supply for Double Spark Plug Ignition System-</i> Dragoș Astanei, Radu Burlica, Daniel Crețu, Iuliana-Delicia Dirlau, Gheorghe-Gabriel Urma, Bogdan Hnatiuc

EEE Engineering Education and Evocations MEE Materials, Eco-design and Electro-ecology

Room 2-137 (11h15 -13h30)

Chairmen: Petru TODOS, Bogdan Alexandru RĂDULESCU

ID 154	<i>Wireless control of a PMDC Motor</i> – Laura-Mihaela Lelutiu, Elena Vântoiu
ID 159	<i>Strategic and Operational Management in Energy Education, New Opportunity for Small Developers</i> – Bogdan Alexandru Rădulescu, Victorița Rădulescu
ID 253	<i>Development of electrotechnical industry, research and education in the Republic of Moldova</i> – Todos Petru, Ilie Nucă, Iurie Nucă

ID 129	<i>Cold plasma treatment influence on aqueous solution related to the electrical parameters of the power supply</i> - Cristian Victor Lungu, Bogdan Hnatiuc
ID 188	<i>Experimental Study of Some Composite Materials Characteristics</i> - Mircea-Emilian Ardeleanu, Aurelia Scornea, Dan-Gabriel Stănescu, Ilie Mihalcea, Valentin Adam
ID 207	<i>Experimental Determinations Regarding the Efficiency under Electromagnetic Shielding of Certain Construction Materials-</i> Violeta Voicu, Mircea-Emilian Ardeleanu, Paul Nicoleanu, Florel Raicu

MMS Metrology And Measurement Systems

Room 2-137 (9h00-11h00)

Chairmen: Andrei CHICIUC, Alexandru SALCEANU

ID 173	<i>Applying Blockchain Technologies in Funding of Electrical Engineering Industry Applications-</i> Cătălin Damian, Ioan Lazăr, Daniel-George Visoiu, Ștefan Romanescu, Lenuța Alboaic
ID 181	<i>ANSYS Maxwell Finite Element Model for 2D Computation of the Magnetic Field Generated by Overhead High-Voltage Power Lines</i> - Silviu Vornicu, Eduard Lunca, Alexandru Sălceanu

ID 183	<i>Simulation and Measurement of the Radiofrequency Electromagnetic Field Generated by a LTE Base Station - Ovidiu Bejenaru, Eduard Lunca , Valeriu David</i>
ID 187	<i>Angle Transducer Based on Matteucci Effect - Cristian Fosalau, Cristian Zet</i>
ID 189	<i>Storing Custom Data Sets in a Blockchain System - Cătălin Damian, Maria Robu, Andrei Panu, Eduard Lunca</i>
ID 194	<i>Study on the possibility of implementing a system for monitoring emotions - Mihai Cenușă, Mihaela Poienar, Mariana Milici</i>
ID 218	<i>Computational Aspects Concerned with the Optimized Use of Wavelet Package Trees - Lucian Cristian Scărlătescu, Ileana Diana Nicolae, Marian Ștefan Nicolae, Petre Marian Nicolae, Dorina Mioara Purcaru</i>
ID 262	<i>Generating programmable analog signals using FPGA- Cristian Zet, Cristian Fosalau</i>

EERR Energy Efficiency and Renewable Resources

Room 2-222 (9h00-11h00)

Chairmen: Ion BOSTAN, Valentin ARION, Victorița RĂDULESCU

ID 107	<i>Identifying the opportunity to meet the Republic of Moldova Electricity Demand by Combining Renewable Energy Sources and Energy Storage Systems - Ion Comendant, Iulia Prepelită, Lilia Turcuman</i>
ID 110	<i>The Photovoltaic Greenhouses – A Challenge for Republic of Moldova - Ion Bostan, Aurel Guțu, Corina Guțu-Chetrușca</i>
ID 116	<i>Photovoltaic Technical Potential in Republic of Moldova - Dumitru Braga</i>
ID 119	<i>Production Function of Energy Sector Republic of Moldova - Mikhail Gritsai, Mikhail Grodetskii, Vitali Postolati</i>
ID 134	<i>The load duration curve surface sharing between the possible energy sources -Valentin Arion, Călin Negură, Constantin Borosan</i>
ID 152	<i>Grid storage in LV networks – An appropriate solution to avoid network limitations in high RES scenarios- Mihai Sănduleac, Mihaela Albu, Dorel Stănescu, Carmen Stănescu</i>
ID 157	<i>Influence of the Atmospheric Parameters and the Induced Perturbations by Masts in Wind Farms - Victorița Rădulescu</i>
ID 158	<i>Numerical Modeling of Unsteady Air Flow with Vortices on Wind Turbine Blades - Victorița Rădulescu</i>
ID 163	<i>The load management concept applied on the residential sector - Cosmin Tiganasu, Ciprian Nemes, Florin Munteanu, Daniel Muneanu, Cezar Scinteie</i>

Room 2-222 (11h15-13h00)

Chairmen: Ion SOBOR, Corneliu MARINESCU

ID 165	<i>The Present State of the e-RES Sector in Moldova Republic</i> - Ion Sobor, Octavian Mangos, Stella Tăriță
ID 171	<i>Power output experimental evaluation of fixed photovoltaic systems when using adjustable tilt angles</i> -Dragoș Machidon, Roxana Oprea, Marcel Istrate
ID 191	<i>Considerations about designing an optimal DC diagram for Renewable Energy Systems</i> - Mihai-Dumitru Valcan, Corneliu Marinescu
ID 196	<i>Distributed Generation Modeling in Matlab-Simulink</i> - Dumitru Cernusca, Radu-Dumitru Pentiu, Eugen Hopulele, Laurentiu Dan Milici
ID 209	<i>Particularities of the Energy Storage Processes in the Functional Components of the Power Systems</i> - Vladimir Berzan, Vladimir Patsyuk, Galina Rybacova, Iurie Ermurachi
ID 224	<i>Impact of Weather Forecasts and Green Building on Micro Grid Energy Management System</i> - Ihsan Mizher Baht, Petre-Marian Nicolae, Marian-Stefan Nicolae
ID 225	<i>Analysis of the Aspects of Increasing the Efficiency of Electricity Generation by Photovoltaic Power Plants</i> , Oleg Chalbash
ID 226	<i>Flexible Polynomial Mathematical Model of a Photovoltaic Power Plant</i> - Oleg Chalbash, Vladimir Berzan

PGTD Power Generation, Transport and Distribution ME Management And Entrepreneurship

Room 2-230 (11h15-13h00)

Chairmen: Vladimir BERZAN, Ciprian NEMES

ID 147	<i>Calculation and Investigation of Steady-State Asymmetric Modes of Three-Windings Three-Legs Power Transformer with Star/Star/Delta Connection</i> -Valeriu Bosneaga,Victor Suslov
ID 150	<i>Assessment of energy security of the region on the example of Pridnestrovye</i> - Sergei Fedorchenko, Gregory Fedorchenko
ID 200	<i>Phase Load Balancing in Low Voltage Distribution Networks Using Metaheuristic Algorithms</i> - Ovidiu Ivanov, Bogdan-Constantin Neagu, Mihai Gavrițaș, Gheorghe Grigoraș, Călin-Viorel Sfintes
ID 210	<i>Compact and Controllable Electric Lines</i> - Vitalie Postolaty, Elena Bycova, Vladimir Berzan
ID 238	<i>The opportunity to treat the neutral through the resistor or combined compensation coil - resistor</i> - Ina Dobrea

ID 102	<i>The Correlation between Energy Resources Tariffs, Inflation and Competitiveness</i> – Tatiana Gutium
--------	---

ID 104	<i>Energy Resource Tariffs as a Tool for Comparing and Influencing Macroeconomic Indicators and Competitiveness</i> - Tatiana Gutium, Vitaly Postolaty
ID 160	<i>Numerical Modeling of Intelligent Heating Systems to Improve their Energetic Efficiency</i> - Bogdan Alexandru Rădulescu, Victorița Rădulescu

Special Session **Tendences in Lighting Engineering**

Room 2-230 (9h00-10h45)

Chairmen: Dorin LUCACHE

Keynote speaker:	Cătălin Daniel GĂLĂȚANU <i>„Improving the luminance measurement from digital images</i>
ID 205	<i>Reduction of Energy Consumption for Architectural Lighting Systems</i> - Cristian Gozo Haba, Cătălin Daniel Gălățanu, Liviu Breniuc
ID 220	<i>Improving the luminance measurement from digital images</i> - Cătălin Daniel Gălățanu
ID 228	<i>Study Case for Illuminance Calculation for Footpaths</i> - Alexandru Viorel Rusu, Dorin Dumitru Lucache, Gheorghe Livint
ID 250	<i>Assessment of Conflict Area Parameters Measurements by Using Photographical Methods</i> - Alexandru Viorel Rusu, Dorin Dumitru Lucache, Gheorghe Livint

CONFERENCE SPONSORS

Sponsors from Romania



MINISTERUL CERCETĂRII ȘI INOVĂRII

ASOCIATIA PENTRU SPRIJINIREA EDUCATIEI IN INGINERIE

Sponsors from Republic of Moldova



POLIMONTAJ S.R.L.



ABSOLUT ENERGIE SRL



BECOR

