

THURSDAY, October 17, 2024

Hall of Lost Steps / Carmen Sylva Aula, A - Building, 11 Carol I Blvd.

08.00 -12.30	Participants registration (A -building)
09.00 -09.45	OFFICIAL OPENING -Hybrid link
09.45 -10.00	Coffee break
10.00 -11.30	PLENARY LECTURES - Hybrid link Seeram Ramakrishna, Singapore Manuela Sechilariu, France Laurent Canale, France
11.30 -12.00	Coffee break / TUIASI Library / Exhibition
12.00 -13.30	PLENARY LECTURES - Hybrid link Lucian Tutelea, Romania Georges Barakat, Yacine Amara, France Codrin Gruie Cantemir, USA
13.30 -14.15	Lunch
14.15 -15.00	Transfer by bus - to the Faculty of Electrical Engineering
14.15 -18.00	Electrical and Power Engineering Challenges for the South-East European Region/ Roundtable Energy Efficiency – Hybrid link

THURSDAY, October 17, 2024

Faculty of Electrical Engineering, E-building, Prof. D.Mangeron 21 – 23

14.00-16.00	Participants registration (E -building)
15.00-16.00	PLENARY LECTURES – Hybrid link Angela Daniela La Rosa, Norway Vasile Florin Popescu, Romania
16.00-16.15	Coffee break
16.15-17.45	ORAL SESSION & WORKSHOPS
18.30	Depart for GALA DINNER
19.00-23.45	GALA DINNER

FRIDAY, October 18, 2024

Faculty of Electrical Engineering, E-building, Prof. D.Mangeron 21 – 23

9.00-10.00	Participants registration (E -building)
9.00-9.30	POSTER SESSION / Coffee break
9.30-11.00	ORAL SESSIONS & WORKSHOPS
11.00-11.15	Coffee break
11.15-13.00	ORAL SESSIONS & WORKSHOPS
13.00-13.30	Closing ceremony – Hybrid link
13.30-14.30	Lunch
14.30 -19.00	Trip to the Cotnari vineyard (includes visit to the winery, tasting and dinner)

SATURDAY, October 19, 2024

9.00-18.00	Discovering Iasi area (sightseeing, industry, culture) - Extra guided tour (on demand)
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		Aula Carmen Sylva	Conf. Hall D.H.	Amf. E1	Amf. E2	Amf. E3	Amf. E4	Int-electro SRL*		
Thursday, October 17	9:00-9:45	OFFICIAL OPENING								
		Coffee break								
	10:00-11:30	Plenary lectures								
		Coffee break								
	12:00-13:30	Plenary lectures								
		Lunch								
	14:15-15:00	EPEC1	Transfer by bus to E - building					REHAB		
	15:00-16:00		Plenary lectures							
	Coffee break									
16:15 17:45	PS1		EM1	MMS	PED	AR+EFEC				
	Depart for Galla dinner									
Friday, October 18	09:00-09:30	Poster session (Faculty Hall)							IEPMDA	
	09:30 11:00	PS2	EM2	ECEMB	IA	EA				
		Coffee break								
	11:15-13:00	EPEC2 EN-109	RENEW	IEEE Chapter meeting	Roud-table Light	CSAI & EEPE				
	13:00-13:30	CLOSING CEREMONY								
	13:30-14:30	Lunch								
	14:30	Depart for Trip to the Cotnari vineyard								

Legend

AR + EFEC	Automation & Robotics, Electromagnetic field & Electrical Circuits	MMS	Metrology and measurement systems
CSAI	Computer science and AI applications	PED	Power electronics and electrical drives
EM1	Electrical machines 1	PS1	Power systems 1
EM2	Electrical machines 2	PS2	Power systems 2
EA	Electrical aparatus	RENEW	Renewable energy
IA	Industry applications	EEPE	Education in Electric and Power Engineering
IEPMDA	9th Int. Workshop with Industry on Electromagnetic Properties of Materials and Dedicated Applications	ECEMB	8th Int.Workshop on Electromagnetic Compatibility and Engineering in Medicine and Biology
EPEC	Electrical and Power Engineering Challenges for the South-East European Region	REHAB	4th International Workshop on Advances in Rehabilitation Engineering Applications

Thursday, October 17, 2024

10.00 - 11.30

PLENARY LECTURES - [Hybrid link](#)

Room: Carmen Sylva Aula

Chairmen: Alin Dragomir, Dorin Lucache

1	Seeram Ramakrishna, Singapore	Greening the Power Energy
2	Manuela Sechilariu, France	Electromobility: DC microgrid powered EVs charging station
3	Laurent Canale, France	LED lighting, an astonishing story of serendipity at the crossroads of light and telecommunications research

Thursday, October 17, 2024

12.00 - 13.30

PLENARY LECTURES - [Hybrid link](#)

Room: Carmen Sylva Aula

Chairmen: Mihai Albu, Adrian Munteanu

1	Ion Boldea, Lucian Nicolae Tutelea*, Nicolae Muntean, Romania	A few novel rail and road electric traction drives: an overview
2	Georges Barakat, Yacine Amara, France	Electrical machines structures and topologies: are we at the end of History?
3	Codrin Gruie Cantemir, USA	Introduction to Hybrid-Electric Jet Engines

Thursday, October 17, 2024

14.15 - 18.00

EPEC - Electrical and Power Engineering Challenges for the South-East European Region/ Roundtable Energy Efficiency - [Hybrid link](#)

Room: Carmen Sylva Aula

Chairmen: Bogdan NEAGU, Radu PORUMB

1	The Paradigm Shift and The Correlation Between The Introduction of New Technologies and Energy Consumption in the Energy Sector of the Republic of Moldova.	Vasile DAUD, Mihai LUPU*, Nicolae SOLOVIOV, Galina UZUN (Energy Institute, Technical University of Moldova);
2	Industrial Energy Audit - the Impact of Current Regulations on Increasing Energy Efficiency for Consumers in Romania	Ioan BITIR-ISTRATE (National University of Science and Technology Politehnica Bucharest)*; Mariana PĂTRĂȘCAN (ELSACO ESCO SRL)
3	Transposition of the Energy Efficiency Directive into Romanian Legislation	Dan MICU (TUCN); Radu PENTIUC (USV);
4	Smart and Climate Neutral Cities, how do we get there?	Gheorghe GRIGORAȘ (TUIASI); Ioan BITIT – ISTRATE (NUSTPB)
5	The Energy Transition in the Rural Environment, from Traditional Villages to Autonomous Energy Villages	Andrei CECLAN (TUCN); Atilla SIMO (UPT);
6	Decarbonization of Industry, between the Crisis and Quickly Ahead	Gelu GURGUIATU (UGAL); Bogdan NEAGU (TUIASI);
7	The Role of Universities in the Training of Exerts in the Energy Efficiency Field	Paul Mihai MIRCEA (UCV); Florin Vasile PINTEA (SAMER)

Thursday, October 17, 2024

15.00 - 16.00

PLENARY LECTURES – [Hybrid link](#)

Room: Dragomir Hurmuzescu Conference Room

Chairmen: Romeo Ciobanu, Mihaela Aradoaiei

1	Angela Daniela La Rosa, Norway	Sustainability in the energy sector
2	Vasile Florin Popescu, Romania	The ethics of using intelligent data-driven decision support systems in military applications

Thursday, October 17, 2024

14.30 - 16.00

REHAB - 4th International Workshop on Advances in Rehabilitation Engineering

Applications – [Hybrid link](#)

Room: Amphitheater E4

Chairmen: Seeram Ramakrishna, Dorin Popescu, Marian-Silviu Poboroniuc

1	24	Computer vision feeding robot for disabled people	Alexandru Ianosi-Andreeva-Dimitrova (Technical University of Cluj-Napoca)*; Dan Mandru (TUCN); Ana C Fenesan (TUCN)
2	26	Functional testing for a lower limb rehabilitation robotic system	Dorin Popescu (University of Craiova)*
3	27	Human-Machine Interfaces for a lower limb rehabilitation robotic system	Horatiu Roibu (University of Craiova); Dorin Popescu (University of Craiova)*
4	115	Fostering Upper Limb Recovery through Interdisciplinary Collaboration: A Review of Robotic Devices, Functional Electrical Stimulation, and Mirror Therapy	Emanuel-Andrei Piseru (TUIASI)*; Teodora Piseru (TUIASI); Alina- Roxana Miron (TUIASI); Marian S Poboroniuc (TUIASI)
		Practical applications with Brain-Computer Interfaces and rehabilitation devices (demo with g.Nautilus; demo with GFTSN)	Danut-Constantin Irimia, Alina Georgiana Baci, Alexandru Mitocaru, Marian-Silviu Poboroniuc (TUIASI)

Thursday, October 17, 2024

16.15 – 17.45

PS 1 – Power Systems 1 – [Hybrid link](#)

Room: Dragomir Hurmuzescu Conference Hall

Chairmen: Ion Triștiu, Mihai Gavrilăș

1	103	Evaluation of Technical Consequences of Line Arresters instead of Shield Wires on HV Overhead Transmission Lines	Hamed Vsheghani Farahani (Monenco Iran)*; Mohammad Loni (Monenco Iran); Hamid Javadi (Monenco Iran); Masoud Negarpour (Monenco Iran); Faramarz Ghelichi (Monenco Iran)
2	104	Electrical Behavior of two Hybrid types of Insulator Proposed for using in Heavy Pollution Areas	Hamed Vsheghani Farahani (Monenco Iran)*; Hamid Javadi (Monenco Iran); Masoud Negarpour (Monenco Iran); Majid Roustaei (Monenco Iran); Faramarz Ghelichi (Monenco Iran)
3	9	Intelligent Energy Storage for Electric Vehicles Charging Stations	Sorin Sinteia (Constanta Maritime University)*; Cornel Panait (Constanta Maritime University); Bogdan E. Hnatiuc (Constanta Maritime University); Ana Dumitrascu (Constanta Maritime University); Mihaela Hnatiuc (Constanta Maritime University); Catalin Pomazan (Constanta Maritime University)
4	18	Estimating The Influence Of Reactive Power Compensation On Power Losses In Transformers	Elena Vasilos (Technical University of Moldova)*
5	22	High Voltage Power Transformer Protection Parameters Calculation and Differential Protection Testing using a Three Phase Test Kit	Ovidiu Chiritescu (National University of Science and Technology Politehnica of Bucharest)*; Sorina Costinaș (National University of Science and Technology Politehnica of Bucharest); Matei Roșca (National University of Science and Technology Politehnica of Bucharest)
6	40	Prerequisites of a Physical Model of an Inverter-linked Electric Network using the Similarity Criterion	Ioan Catalin Damian (National University of Science and Technology Politehnica of Bucharest)*; Mihai Sanduleac (UNSTP Bucharest); Andreea Georgiana Iantoc (UNSTP Bucharest); Mihaela Damian (Technical University of Darmstadt); Nicolae Anton (UNSTP Bucharest)
7	68	A Crow Search Algorithm Approach for Optimal Reactive Power Dispatch with Multi-Type FACTS Devices	Biplab Bhattacharyya (Indian Institute of Technology, Dhanbad)*; Suraj Kumar Rajbhar (Indian Institute of Technology, Dhanbad)

8	101	On Unbalanced Regimes Studies in Low Voltage Networks using OPENDSS	Mihai Sanduleac (National University of Science and Technology Politehnica of Bucharest)*; Paul Lacatus (UNSTP Bucharest); Teodor Diaconu (UNSTP Bucharest); Ion Tristiu (UNSTP Bucharest); Andreea Iantoc (UNSTP Bucharest); Cristina Efremov (Technical University of Moldova)
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Thursday, October 17, 2024

16.15 – 17.45

EM 1 – Electrical Machines 1 – [Hybrid link](#)

Room: Amphitheater E1

Chairmen: Lucian Tutelea, Leonard Livadaru, Elena-Daniela Lupu

1	135	Improved design of the stator windings of high power induction machines for aerospace applications	Dan-Cristian Popa (Technical University from Cluj-Napoca)*; Olivia R Bruj (INCDTIM); Lorand Szabo (Technical University of Cluj-Napoca); Codrin Gruie Cantemir (Ohio State University)
2	33	Small Power Magnetically Geared Generator Design for Rural Zones of Benin	Renaud Philippe D'Almeida (EPAC/ UAC)*; Claudia Martis (Tehncial University of Cluj-Napoca); Agbomahena Macaire (EPAC/ UAC); Doha Kamal Mohamed MI Idris (Techincal University of Cluj - Napoca); Audace B. K. DIDAVI (EPAC/ UAC); Yao GNAGBOLOU (EPAC/ UAC)
3	36	Irreversible Partial Demagnetization Analysis for Different Permanent Magnet Synchronous Motor Rotor Topologies	Raymond BIRASA (Technical University of Cluj-Napoca)*; Jose Enrique Ruiz-Sarrió (Universitat Politècnica de València); Doha Kamal Mohamed Idris (Technical University Of Cluj-Napoca); Jose Alfonso Antonino-Daviu (Universitat Politècnica de València); Claudia Martis (Tehncial University of Cluj-Napoca)
4	184	A Study on a Linear Actuator for the Electromagnetic Aircraft Launch System	Ioan-Marian Dobos (TUIASI)*; Adrian Munteanu (TUIASI); Bogdan Virlan (TUIASI); Ionut Nacu (TUIASI); Leonard Livadaru (TUIASI); Alecsandru Simion (TUIASI)
5	124	Analysis of Axial Flux Permanent Magnet motors used for electric vehicle	Elena-Daniela I. LUPU (Universitatea Ștefan cel Mare Suceava)*; Ștefan TABACU (National University of Science and Technology Politehnica Bucharest)
6	155	The Study of Influence of Rotor Flux Barriers on Electromagnetic Performance of Interior Permanent Magnet Synchronous Machine (IPMSM)	Mihaita-Emanuel Anton (TUIASI)*, Adrian Munteanu (TUIASI) Bogdan Virlan (Gederex Engineering S.R.L.), Alecsandru Simion (TUIASI), Ionut Nacu (TUIASI), Leonard Livadaru (TUIASI)

Thursday, October 17, 2024

16.15 – 17.45

AR+EFEC – Automation & Robotics, Electromagnetic field & Electrical Circuits – [Hybrid Link](#)

Room: Amphitheater E4

Chairmen: Camelia Petrescu, Alina Baci

1	19	A newly designed drone tested in a laboratory environment	Tudor Cosarca (TUIASI)*; Ema Bereanda (TUIASI); Marian Poboroniuc (TUIASI)
2	58	Contributions to a Nonverbal Communication System for Human-Machine Interaction	Cristian-Ilie Panaintescu (TUIASI)*; Marian S Poboroniuc (TUIASI); Stefan-Adrian Ionescu (TUIASI)
3	177	Compliant gripper for biological cells manipulation	Simona Noveanu (Technical University of Cluj-Napoca)*; Dan Noveanu (Technical University of Cluj-Napoca); Ioan Alexandru Ivan (National Institute of Materials Physics)
4	89	Intelligent Control Based in Neural-Fuzzy of Adaptive Backstepping for The Double Stator IPMSM Powered by a Five-Level NPC Inverter	Rabie Benaissa (University of Adrar, Algeria), Smail Mansouri (University of Adrar, Algeria), Omar Ouledali (University of Adrar, Algeria)
5	137	Comparative Analysis of Signals Impacting Electromagnetic Compatibility in a Control Circuit	Sergiu L Tulbure (TUIASI)*
6	178	Optimizing MIMO Planar Structures for 2.4 GHz Applications	Claudia Constantinescu (Technical University of Cluj Napoca)*; Claudia Pacurar (TUCN); Calin Munteanu (TUCN); Adina Giurgiuman (TUCN); Sergiu Iulian Andreica (TUCN); Marian Razvan Gliga (TUCN); Sabin Dusa (TUCN); Melisa Steckca (TUCN)

Thursday, October 17, 2024

16.15 – 17.45

MMS – Metrology and Measurement Systems – [Hybrid link](#)

Room: Amphitheater E2

Chairmen: Constantin Daniel Oancea, Cristian Zet

1	30	Short-Term Photovoltaic Power Forecasting Prediction Sased on Environmental Information Collected from API	George Balan (TUIASI)*; Dorin-Dumitru Lucache (TUIASI); Alexandru Salceanu (TUIASI)
2	114	The Infuence of Target Color on the Measurement of the Distance Using LiDAR Sensor	Hariton Anamaria (TUIASI)*; Cristian Zet (TUIASI); Cristian-loan Fosalau (TUIASI)
3	151	Characterization of the Loads Connected to the Power Network	Constantin Daniel Oancea (National University of Science and Technology Politehnica of Bucharest)*
4	16	A Cheap and Practical IoT Solution for Agricultural Data Monitoring	Doru Cornei (TUIASI)*; Cristian Fosalau (TUIASI); Laura Cornei (University "Alexandru Ioan Cuza")
5	159	A New Adaptive Window for Improving the Mean Computing Accuracy in Non-Coherent Sampling	Cristian Fosalau (TUIASI)*; Cristian Zet (TUIASI); Anamaria D Hariton (TUIASI)
6	164	Theoretical and Experimental Aspects About the RMS Estimation Based on Signal Samples	Cristian Zet (TUIASI)*; Cristian Fosalau (TUIASI); Anamaria D Hariton (TUIASI)
7	8	Identifying and Monitoring Recovered Batteries	Sorin Sinteia (Constanta Maritime University) Panait Cornel (Constanta Maritime University) Ana Dumtrascu (Constanta Maritime University) Mihaela Hnatiuc (Constanta Maritime University) Pomazan Catalin (Constanta Maritime University) Bogdan Hnatiuc (Constanta Maritime University)

Thursday, October 17, 2024

16.15 – 17.45

PED – Power Electronics and Electrical Drive – [Hybrid link](#)

Room: Amphitheater E3

Chairmen: Sorin Ioan Deaconu, Mohmaed Alsonisi

1	25	DC-DC bidirectional converter for battery energy storage system with integrated battery management	Mohmaed Alsonisi, Mohammed Elgendy, Bortecene Yildirim, Salaheddine Ethni, Mohamed Ahmeid (Newcastle University)*
2	63	Series-Connected Low Power Wind Turbines for Small-Scale Wind Farms	Andrei Viorel Radulescu (Universitatea Transilvania)*; Ioan Serban (Transilvania University of Brasov)
3	67	A Dual Active Bridge-Based Converter for Electric Vehicle Integration in Hybrid Microgrids	James Sora (Transilvania University of Brasov)*; Ioan Serban (Transilvania University of Brasov)
4	131	Three-Phase Grid-Connected Electric Vehicles Charging Station with Photovoltaic Panels	Ioan Viorel Banu (Vasile Alecsandri University of Bacau)*; Fadila Barkat (University of Ghardaia); Marcel Istrate TUIASI; Josep M. Guerrero (Technical University of Catalonia); Nicolay Mihailov (University of Ruse Angel Kanchev); Boris I Evstatiev (University of Ruse "Angel Kanchev"); Nikolay Valov (University of Ruse Angel Kanchev); George Culea ("Vasile Alecsandri" University of Bacau); Petru Gabriel Puiu (Vasile Alecsandri University of Bacau)

Friday, October 18, 2024

09.30 – 11.00

PS 2 – Power Systems 2 – [Hybrid Link](#)

Room: Dragomir Hurmuzescu Conference Hall

Chairmen: Radu Porumb, Gheorghe Grigoraş

1	152	Enhancing Grid Reliability in the Baltic Region: Integrating Renewable Energy and ENTSO-E Synchronization	Aleksandrs Sahnovskis (Riga Technical University)*; Inga Zicmane (Riga Technical University); Sergejs Kovalenko (Riga Technical University)
2	163	Load Shifting as a Demand Side Management Technique	Nastase Mihaela (TUIASI)*; Mihai Gavrilas TUIASI)
3	168	Electricity Price Forecasting on Day Ahead Market via a Multivariate CNN-LSTM Model	Andrei Tudose (National University of Science and Technology Politehnica of Bucharest)*; Robert Micu (UNSTP Bucharest); Andreea Ianţoc (UNSTP Bucharest); Irina Picioroagă (UNSTP Bucharest); Constantin Bulac (UNSTP Bucharest)
4	15	Distribution of Symmetrical Current Components along 10 kV Cable Line with Isolated Neutral at Single-phase Fault in the Medium Part of the Line	Valeriu A Bosneaga (Power Engineering Institute of Moldova Academy of Sciences, Technical University of Moldova)*; Victor Suslov (Power Engineering Institute of Moldova Academy of Sciences, Technical University of Moldova); Ion Stratan (Technical University of Moldova)
5	132	Voltage Quality Pattern Recognition in Microgrids Using a Data-Driven Machine Learning-Based Methodology	Stefania Galbau (TUIASI); Gheorghe Grigoras (TUIASI)*; Bogdan Constantin Neagu (TUIASI)
6	138	Optimal Power Flow with the Clustering-Improved Fuzzy Models for Uncertainty Sources of Wind Power and Nodal Loads	Bogdan-Pavel Livadariu (TUIASI); Gheorghe Grigoras TUIASI)*; Bogdan Constantin Neagu TUIASI); Ovidiu Ivanov TUIASI); Florina Scarlatache (TUIASI); Mihai Gavrilas (TUIASI)
7	191	Optimizing the integration of electricity produced by PV systems through demand management	Elena Luciana Teodora Dragoi (National University of Science and Technology Politehnica of Bucharest)
8	194	Analysis of an Electricity Supplier operating as an Aggregate Entity in Romanian Market	Elena Luciana Teodora Dragoi (National University of Science and Technology Politehnica of Bucharest)

Friday, October 18, 2024

09.30 – 11.00

EM 2 – Electrical Machines 2 – [Hybrid link](#)

Room: Amphitheater E1

Chairmen: Adrian Munteanu, Marcel Burduniuc

1	134	Perspectives of improvement of a Halbach generator used in a small-wind vertical turbine	Olivia R Bruj (INCDTIM)*; Emil Bruj (INCDTIM); Dan Popa (UTCN); Dan-Cristian Popa (Technical University from Cluj-Napoca)
2	31	Advanced Thermal Management Techniques for Electric Motors: A Comparative Analysis	Cristina Adascalitei (Technical University of Cluj-Napoca)*; Claudia Martis (Tehcnical University of Cluj-Napoca); Sorin Iulian Cosman (Technical University of Cluj-Napoca)
3	145	The Study of the Transient Starting Process of a Single-Phase Motor Without External Phase-Shifting Elements	Lucian Grușac (TUM); Marcel Burduniuc (TUM); Vadim Cazac (Technical University of Moldova)*
4	149	The influence of bearing bore wear on power indicators of the traction motor gear unit	Genadijs Kobenkins (Riga Technical University)*; Marks Marinbahs (JSC “Riga Electric Machine Building Works”); Nikita Rilevs (Riga Technical University); Anatolijs Bizans (Riga Technical University); Olegs Sliskis (JSC “Riga Electric Machine Building Works”)
5	148	Analysis of the permanent magnets influence on the operation of a BLDC motor	Constantin-Bogdan Paduraru (TUIASI)*; Alin Dragomir(TUIASI); Adrian Munteanu (TUIASI); Maricel Adam (TUIASI); Stefan-Andrei Nadabaica (TUIASI); Gabriel Chiriac (TUIASI, Romania)
6	183	Design of a single-phase asynchronous motor prototype by overlaying the value analysis method on dynamic simulation	Adrian Vilcu (TUIASI)*; Marius Pîslaru (TUIASI); Ionuț Nacu (TUIASI); Bogdan Virlan (TUIASI); Ștefan Eduard Moșneaguțu (TUIASI); Ionuț Viorel Herghiligiu (TUIASI)

Friday, October 18, 2024

09.30 – 11.00

ECEMB – 8th International Workshop on Electromagnetic Compatibility and Engineering in Medicine and Biology – [Hybrid link](#)

Room: Amphitheater E2

Chairmen: Octavian Postolache, Eduard Luncă

1	14	IoT System FOR Environmental Monitoring and Improving Thermal Comfort and Air Quality	M. Branzila (Technical University of Iasi); D. Codreanu (Technical University of Iasi)
2	65	Impact Analysis of Control Frequency Variations Using SI MOSFETs and SIC IGBTs in Boost Converter	Abdelhakim Zeghoudi (Djilali Liabes University of Sidi Bel-Abbès)*; Dorin Lucache (TUIASI); Abdelber BENDAOUD (Djillali Liabes University of Sidi Bel-Abbès); Laurent Canale (CNRS)
3	150	Electromagnetic Interference in Ultrasound Imaging Systems – A case study	Alexandru-Marian Bordaș (TUIASI)*; Adelina-Cristina Căsuță (TUIASI); Valeriu David (TUIASI)
4	157	3-Axis Virtual Gaussmeter for Measurement and Advanced Characterization of the Magnetic Fields from Overhead Power Lines	Eduard Lunca (Technical University of Iasi)*; Silviu Vornicu (TUIASI); Alexandru Salceanu (TUIASI)
5	187	Gait Assesment using Microwave Radars mounted on Standard Walker	Octavian Postolache (ISCTE and Instituto das Telecomunicações, Lisbon); Vitor Viegas (Escola Naval and Instituto das Telecomunicações, Lisbon); José Miguel Dias Pereira (EST Setubal and Instituto das Telecomunicações, Lisbon)
6	161	Real-time Spectrum Monitoring of Mobile Networks based on SDR Platform and Web Application	Ioana Morosanu (Land Forces Academy of Sibiu); Mirela Sorecau (Technical University of Cluj-Napoca)*; Emil Sorecau (Technical University of Cluj-Napoca); Alexandru-Marius Vasile (Technical University of Cluj-Napoca); Paul Bechet (Land Forces Academy of Sibiu)

Friday, October 18, 2024

09.30 – 11.00

IA – Industry Applications – [Hybrid link](#)

Room: Amphitheater E3

Chairmen: Codrin Gruie Cantemir, Florin Ciuprina

1	7	Superabsorbent ternary composite desiccants towards energy-efficient dehumidification in cooling systems	Mei Gui Vanessa Wee (National University of Singapore); Amutha Chinnappan (National University of Singapore); Seeram Ramakrishna (National University of Singapore)
2	10	Influence of Thermal Aging on Dielectric Behavior of LDPE/TiO ₂ Nanocomposites	Laura Enache, Florin Ciuprina (University Politehnica Bucharest)
3	117	Thermostat Behavior Analysis in a Smart Home Environment Using Petri Nets	Oana Cristina Beniuga (TUIASI), Constantin Razvan Beniuga, Dragos Astanei, Radu I Burlica (TUIASI)
4	160	Need of Dynamic Drive Control for Efficient Electrified Powertrain in Automotive Industry	Ahmad H. Safder, Athar Hanif, Qadeer Ahmed, CG Cantemir, (The Ohio State University Columbus, USA), Vasile Horga (TUIASI)
5	166	High Power Electric Powertrain for Commercial Aircraft Propulsion	Athar Hanif, C. G. Cantemir (Center for Automotive Research The Ohio State University Columbus, OH, USA), Vasile Horga, Marcel Ratoi (TUIASI), Ralph Jansen, Andy Provenza (NASA Glenn Research Center Cleveland, OH, USA)
6	169	High conductivity solution treatment by non-thermal plasma T-shaped mini electrochemical reactors	Bogdan-Andrei Pingescu (TUIASI); Daniel Asmarandei (TUIASI); Dragos Astanei (TUIASI); Oana Beniuga (Technical University Gheorghe Asachi of Iasi); Radu Burlica (TUIASI)

Friday, October 18, 2024

09.30 – 11.00

EA – Electrical Apparatus – [Hybrid link](#)

Room: Amphitheater E4

Chairmen: Bogdan Hnatiuc, Radu Burlică

1	23	Spectral Analysis of Serial Arc Fault Triggering AFDD	Bogdan Hnatiuc (Constanta Maritime University); Sorin Sintea (Constanta Maritime University); Mihaela E. Hnatiuc (Constanta Maritime University)
2	122	Monitoring of Medium Voltage Circuit Breakers using a Programmable Logic Controller	Mihai Caia (TUIASI), Mihai Andrusca (TUIASI), Maricel Adam (TUIASI), Claudiu Ciornohac (TUIASI), Beatris Natalia Ghiujan (TUIASI), Adrian Anton (TUIASI)
3	123	Intelligent System of Management, Command, and Control of Electricity Generated by Renewable Sources	Bogdan-Emanuel Toma (TUIASI), Mihai Andrusca (TUIASI), Maricel Adam (TUIASI), Mihai Caia (TUIASI), Adrian Anton (TUIASI), Daniel Diac (TUIASI)
4	128	About Contact Resistance Monitoring and Vibration Analysis of a Power Circuit Breaker	Adrian Anton (TUIASI), Mihai Andrusca (TUIASI), Maricel Adam (TUIASI), Marian-Bogdan Micu (TUIASI), Alin Dragomir (TUIASI), Silviu Marian Antohi (TUIASI)
5	129	Aspects about Loads Monitoring and Static Switching for Unbalanced Low-Voltage Distribution Networks	Marius-Constantin Bodolică (TUIASI), Mihai Andrusca (TUIASI), Maricel Adam (TUIASI), Adrian Anton (TUIASI), Marian-Bogdan Micu (TUIASI)
6	147	Non-intrusive Monitoring of Consumers of the Power Station Internal Services	Micu Marian-Bogdan (TUIASI); Maricel Adam (TUIASI); Mihai Andrusca (TUIASI); Anton Adrian (TUIASI); Marius-Constantin Bodolica (TUIASI)
7	173	Capacitive power supplies for Non-Thermal Plasma electrochemical mini-reactors	Bogdan Pingescu (TUIASI); Dragos Astanei (TUIASI); Radu Burlica (TUIASI); Gheorghe Asmarandei (TUIASI); Oana Cristina Beniuga (TUIASI); Veronica-Carmen Gheorghe (TUIASI)
8	185	The Current State of Switching Principles and Switching Equipment in the Medium Voltage Networks of the National Energy System in Romania	Decebal Mighiu ("Stefan cel Mare" University of Suceava), Radu Pentiuc ("Stefan cel Mare" University of Suceava) Pavel Atănăsoae ("Stefan cel Mare" University of Suceava), Raluca-Maria ȚÂBULEAC (TUIASI)

Friday, October 18, 2024

09.30 – 11.00

EPEC - Electrical and Power Engineering Challenges for the South-East European Region -

[Hybrid link](#)

Room: Power Engineering Council Room (EN-109)

Chairmen: Attila Simo, Răzvan Beniugă

1	64	Cost-effectiveness and sustainability analysis of a NZEB house	Constantin Razvan Beniuga (Technical University Gheorghe Asachi of Iasi)*; Popa Sergiu-Paul (TUIASI, Romania); Oana Cristina Beniuga (TUIASI); Dragos Machidon (TUIASI); Florin C Băiceanu (TUIASI); Dumitru-Marcel Istrate (TUIASI)
2	181	Algorithms in Energy Consumption Forecasting: Performance and Applications Comparison	Mihai Valentin Suchar (Quartz Matrix SRL); Georgiana Vagner (Quartz Matrix SRL)*, Bogdan Constantin Neagu (TUIASI)*
3	182	Optimizing Energy Consumption in Industrial Microgrids Using Predictive EMS for Production and Renewable Integration	Mihai Valentin Suchar (Quartz Matrix SRL); Georgiana Vagner (Quartz Matrix SRL)*, Bogdan Constantin Neagu (TUIASI)
4	189	Non-conventional renewable energy potential for improving electricity availability for the residential area of the future	Cristian-Dragos Dumitru* (G.E Palade University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureş), Adrian Gligor (G.E Palade University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureş), Daniel Dragomir-Stanciu (G.E Palade University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureş), Ilie Vlasi (Distribuție Energie Electrică Romania,)
5	190	Solar photovoltaic systems challenges in industrial network installations	Cristian-Dragos Dumitru (G.E Palade University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureş), Adrian Gligor (G.E Palade University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureş), Ilie Vlasi* (Distribuție Energie Electrică Romania,), Simona Dzitac (University of Oradea, Department of Energy Engineering), AttilaSimo (Politehnica University of Timisoara)

Friday, October 18, 2024

11.15 – 13.00

RENEW – Renewable Energy – [Hybrid link](#)

Room: Amphitheater E1

Chairmen: Manuela Sechilariu, Călin Munteanu, Dragoș – Lucian Machidon

1	35	Comparative Analysis of Classical and AI-Based MPPT Techniques in Stand-Alone PV Systems: Perturb and Observe, Incremental Conductance, and Fuzzy Logic	Doha Kamal Mohamed Idris (Technical University of Cluj - Napoca)*; Raymond BIRASA (Technical University of Cluj-Napoca); Claudia Steluta Martis (Tehcnical University of Cluj-Napoca); Renaud Philippe D'ALMEIDA (EPAC/ UAC)
2	48	Comparing the concept of Nearly Zero-Energy Buildings between EU countries in terms of required renewable energy share	Paul-Sergiu Popa (TUIASI)*; Răzvan Beniugă (TUIASI); Marcel Istrate (TUIASI)
3	95	Experimental Investigation and Results on the Wear of Photovoltaic Panels	Alexandru-Cosmin Ciocea (TUIASI)*, Florin Munteanu (TUIASI), Ciprian Nemeș (TUIASI)
4	111	Study of a Hybrid System (PV-Battery-Grid) for Electric Vehicle Charging Stations	Ghizlene Cheikh (University Abdel Hamid Ibn Badis, Mostaganem)*; Cristian-Gyozo Haba (TUIASI); Hadj Adda Bentounes (University Abdel Hamid Ibn Badis, Mostaganem)
5	118	Aspects of PV production enhancements using a cost-effective design for tracking	Alexandru-Marian Raduica (National Science and Technology University Bucharest)*; Mihai Sanduleac (UNSTP Bucharest)*; Ioan-Catalin Damian (UNSTP Bucharest); Cristina Efremov (Technical University of Moldova); Valeriu Podborschi (Technical University of Moldova); Alexandru Mandiș (UNSTP Bucharest)
6	125	Photovoltaic technology in Real Estate	Ana Ciobanu (National Science and Technology University Bucharest)*; Mihai Dosanu (UNSTP Bucharest); Stefan Gheorghe (UNSTP Bucharest); Cristina Efremov (Technical University of Moldova); Valeriu Podborschi (Technical University of Moldova); Mihai Sanduleac (UNSTP Bucharest)
7	130	Analysis of electric vehicles contribution to CO2 reduction – case study	Melisa Narcisa Ferariu (Technical University of Cluj-Napoca)*; Ion Negru (TUCN); Marian Alexandru Vint (TUCN); Denisa Liliana Stet (TUCN); Levente Czumbil (TUCN); Stefan Dragos Cirstea (TUCN)
8	143	Wind Energy Potential and Wind Characteristics for the Districts of the Northern Development	Vasile Rachier (Technical University of Moldova)*; Mangos Octavian (Technical University of Moldova); Gabriel Bunescu (Technical University of Moldova)

		Region of the Republic of Moldova	
9	167	The Biomass Use for Heat Supply. A Study Case for the Republic of Moldova	Dumitru Braga (Technical University of Moldova)*; Corina Gutu-Chetrusca (Technical University of Moldova); Viorica Hlusuov (Technical University of Moldova); Ala Tverdohle (Technical University of Moldova)
10	171	Study of a Low-Tech Rain Water-Powered Triboelectric Generator as a Renewable Energy	Nour Mohammad Murad (PIMENT/University of la Reunion); F. Philibert Andriniriniimalaza (Institut Supérieur des Sciences et Technologies de Mahajanga, Mahajanga)*; Evangeline Bènevent (University of Toulon, Marseille,); Bruno Malet-Damour (PIMENT/University of la Reunion); Blaise Ravelo (Nanjing University of Information Science & Technology, Nanjing, Jiangsu); Ali Hamada Damien Fakra (LERMAB Laboratory, University of Lorraine)
11	188	Analysis of Levelized cost of storage for a prosumer – case study: Romania	Maria Cristea, Ciprian Cristea, Radu Tirnovan, Aurel Botezan, Florica Mioara Serban, Eugen Balog (Technical University of Cluj-Napoca)

Friday, October 18, 2024

11.15 – 13.00

LIGHT – Roundtable – [Hybrid link](#)

Room: Amphitheater E3

Chairmen: Laurent Canale, Catalin Gălăţanu

1	180	Beam Lens impact on LED Luminaires Photometric Parameters for Exterior Lighting	Noelimihaia Lovasoa Feno F Rakotomalala (Mahajanga University)*; Radu Hertanu (GREENTEK Company); Dorin Lucache (TUIASI); Zely Randriamanantany (Antananarivo University)
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Friday, October 18, 2024

11.15 – 13.00

CSAI – Computer Science and AI Applications & EEPE – Education in Electric and Power Engineering – [Hybrid link](#)

Room: Amphitheater E4

Chairmen: Lenuța Alboai, Catalin Damian, Cristian Haba

1	20	Emotion Recognition for Romanian using DL_CNN Combined with Predictive Neural Network	Silvia Monica Feraru (Romanian Academy, Iasi, Romania,)*; Marius Dan Zbancioc (Romanian Academy, Iasi, Romania, Technical University “Gheorghe Asachi” of Iași, Romania)
2	21	A new approach for formants emphasis using fuzzy techniques	Marius Dan Zbancioc (Romanian Academy, Iasi, Technical University “Gheorghe Asachi” of Iași, Romania, , Romania,); Silvia Monica Feraru (Romanian Academy, Iasi, Romania,)*
3	34	Elevating Water Flow Level Predictions through Strategic Feature Elimination	Iuliana Andreea Stroia Vlad (Siemens SRL)*; Gabriel Mihail Danciu (Siemens SRL); Cosmin Septimiu Nechifor (Siemens SRL)
4	110	Deep Learning Based Cross-Location Building Load Prediction Using Domain Adaptation	A S M Jahid Hasan (North South University)*; Md Shazid Islam (University of California Riverside); Md Saydur Rahman (University of California Riverside); Md Saiful Islam Sajol (Louisiana State University); Jubair Yusuf (Sandia National Lab)
5	136	S-Box Generation though Chaotic Maps	Gael Segura de la Vega* (Facultad de Ciencias, Mexico), Irwin Allen A Diaz-Diaz, Eric Campos (Control and Dynamical Systems Division, PICYT, San Luis, Potosi, Mexico)
6	170	Data-driven and physics-based prognostics for accurate fatigue crack prediction	Tsivalalaina David Razafimahefa (Ecole Supérieure Polytechnique, University of Antsiranana, MADAGASCAR)*, Dahir Addurahman Youssouf (University of Djibouti), Todizara Andrianajaina (Ecole Supérieure Polytechnique, University of Antsiranana, MADAGASCAR)*,
7	192	Edge-Based Machine Learning for Immediate Botnet Detection and Response in IoT Networks	Dr. Anchitaalagmmmai, S.Kavitha, S.Murali, A. Shifana, A. Boomika (Computer Science and Engineering Velammal College of Engineering and Technology, Madurai, India),
8	120	Empowering Energy Professionals: A Novel Educational and Training Program on Energy	Roxana-Valentina Briscan (Universitatea Tehnică din Cluj-Napoca - Facultatea de Inginerie Electrica), Denisa Stet (Technical University of Cluj-Napoca), Dacian Jurj (Universitatea Tehnica din Cluj-Napoca), Muresan Alexandru (Technical University of Cluj-Napoca), Levente

		Transition Audits and Decarbonization	Czumbil (Technical University of Cluj-Napoca), Stefan Cirstea (Universitatea Tehnica din Cluj-Napoca)
9	162	The Paradigm Change: From Confidentiality to Collaborative Learning	Catalin Galatanu ("Gheorghe Asachi" Technical University of Iasi)

Friday, October 18, 2024

09.30 – 13.15

IEPMDA – 9th International Workshop with Industry on Electromagnetic Properties of Materials and Dedicated Applications – [Hybrid link](#)

Room: Room I1, Intelectro SRL, 3-5 Ion Bacalu str

Chair: Vasile Florin Popescu, Mihaela Aradoaei

Room: Room I2, Intelectro SRL, 3-5 Ion Bacalu str

Chair: Romeo Cristian Ciobanu, La Rosa Angela Daniela

1	13	Environmental, economic, and social life cycle assessment in the wind turbine sector	Angela D La Rosa (NTNU)*; Clara Valente (Norsus); Mihaela Aradoaei (TUIASI)
2	69	Dielectric properties of nanocomposite materials with applications for medical imaging	Andreea Maria Lucaci (TUIASI); Oliver Schreiner (TUIASI); Sebastian T Aradoaei (TUIASI)*; Romeo Ciobanu (T.U. Iasi)
3	70	Simulation of drying and disinfection technology using microwave energy	Sebastian T Aradoaei (TUIASI)*; Mirela Popa (TUIASI); Alexandru Chirica (TUIASI); Romeo Ciobanu (T.U. Iasi); Mihaela Aradoaei (TUIASI)
4	71	The dielectric characteristics of thermoplastics nanocomposite materials with ferrites	Mihaela Aradoaei (TUIASI); Sebastian T Aradoaei (TUIASI)*; Alexandru Chirica (TUIASI); Denisa Nicoleta Iordachescu (TUIASI)
5	74	Use of the Labview program to process specific signals for piezoelectric sensors	Marius Valerian V. Paulet (Faculty of Electrical Engineering, TUIASI); Mihaela Aradoaei (TUIASI)*; Romeo Ciobanu (T.U. Iasi); Monica Dumitrache (TUIASI)
6	75	Electrochemical characteristics of electrodes based on nanocarbon	Oliver Schreiner (TUIASI); Florentin Trandabat (TUIASI); Mihaela Aradoaei (TUIASI)*; Raducu Machidon (TUIASI)
7	76	Electrochemical sensor for carbon monoxide testing based on carbon nanofiber - conductive polymer electrodes	Oliver Schreiner (TUIASI); Florentin Trandabat (TUIASI); Mihaela Aradoaei (TUIASI)*; Raducu Machidon (TUIASI); Constantin Vlad Chiriac (TUIASI)

8	77	Physico-chemical analysis of electrodes based on nanocarbon	Florentin Trandabat (TUIASI); Oliver Schreiner (TUIASI); Mihaela Aradoaei (TUIASI)*; Constantin Vlad Chiriac (TUIASI)
9	78	Smart building software simulator	Vlad Morosanu (TUIASI); Alin Olteanu (TUIASI); Cristina Schreiner (Technical Univ. Iasi)*; Maria Georgiana Gheorghian (TUIASI)
10	79	Experimental equipment for anisotropic nanoconductive films manufacturing	Andreea Maria Lucaci (TUIASI); Vlad-Andrei A Scarlatache (Universitatea Tehnica Gheorghe Asachi Iasi); Romeo Ciobanu (T.U. Iasi)*; Denisa Nicoleta Iordachescu (TUIASI)
11	80	Study on anomaly detection in biometric data: methods, challenges, and applications in information security	Maria Geanina Gheorghian (TUIASI); Diana Laura Socotar (TUIASI); Romeo Ciobanu (T.U. Iasi)*
12	81	Study on remote firmware rewriting for telemedicine	Laura Georgiana Patrasc (TUIASI); Adrian Saridache (TUIASI); Cristina Schreiner (Technical Univ. Iasi)*; Monica Dumitrache (TUIASI)
13	82	Functional model of Device of bracelet type based on Photoplethysmography	Adrian Saridache (TUIASI); Laura Georgiana Patrasc (TUIASI); Florentin Trandabat (TUIASI); Cristina Schreiner (Technical Univ. Iasi)*; Raducu Machidon (TUIASI)
14	83	Firmware programming for smart buildings	Alin Olteanu (TUIASI); Vlad Morosanu (TUIASI); Cristina Schreiner (Technical Univ. Iasi)*; Madalina Ancuta Pintilie (TUIASI)
15	84	Exploring data compression: Solutions to optimize efficiency and and improve performance	Madalina Ancuta Pintilie (TUIASI); Cristina Schreiner (Technical Univ. Iasi)*; Diana Laura Socotar (TUIASI)
16	85	Validation of the integration and functional model of a Point of Care platform	Oliver Schreiner (TUIASI); Florentin Trandabat (TUIASI)*; Laura Georgiana Patrasc (TUIASI); Adrian Saridache (TUIASI)
17	91	Use of recycled plastic for educational purposes	George-Andrei Ursan (TUIASI)*; Maria Ursan (TUIASI); Olga Plopa (TUIASI); Alexandru Chirica(TUIASI)
18	127	Electric Resistivity Tomographies on the Pilot location of the MD Demo – Draž Municipality as a contribution to wetlands restoration	Joao Rocha (Aveiro Institute of Materials); Zlatko Nedić (Centar kompetencija d.o.o. za istraživanje i razvoj); Filip Županić (Centar kompetencija d.o.o. za istraživanje i razvoj); H Faria (a); Nuno Sidónio Andrade Pereira (nsapereira@gmail.com); Oliver Schreiner (TUIASI); Romeo Ciobanu (T.U. Iasi)*

19	153	Enhancing Biometric Accuracy: Dynamic Thresholds And Breast Temperature Analysis For Medical Consultations	Maria Geanina Gheorghian (TUIASI); Oliver Daniel Schreiner (TUIASI); Romeo Ciobanu (T.U. Iasi)*
20	175	Monolithic 3D Printed Micro-Optofluidic Device for Two-phase Flow Monitoring and Bioapplications	Lorena Saitta (University of Catania)*; Emanuela Cutuli (University of Catania); Giovanni Celano (University of Catania); Claudio Tosto (University of Catania); Francesca Guarino (University of Catania); Gianluca Cicala (University of Catania); Maide Bucolo (University of Catania)
21	176	Optimizing dimensional accuracy in Metal Fused Filament Fabrication: A Study on Shrinkage Prediction for 316L parts	Claudio Tosto (University of Catania)*; Lorena Saitta (University of Catania); Raffaele Barbagallo (University of Catania); Ignazio Blanco (University of Catania); Gianluca Cicala (University of Catania)

Friday, October 18, 2024

09.00 – 09.30

POSTER session

Room: Electrical Engineering Faculty Hall

Chairmen: Cristian Ioan Foşalău, Florina Scarlatache, Albu Mihai, Vasile Răchier, Sorin Pavel

1	46	EEG Analysis in Metabolic Syndrome Patients: Exploring Cerebral Abnormalities through Comparative Studies with Healthy Subjects	Roxana Todorean (Stefan cel Mare University of Suceava)*; Oana Geman (Stefan cel Mare University); Vicoveanu V Dragos (Universitatea Stefan cel Mare Suceava)
2	140	Leveraging Energy Storage Systems and Virtual Power Lines to Minimize Curtailment in Future Distribution Grids	Bogdan Constantin Neagu (TUIASI)*; Mihai-Andrei Luca (TUIASI Faculty of Electrical, Energy and Applied Informatics Engineering); Gheorghe Grigoras (TUIASI); Ovidiu P Ivanov (TUIASI); Florina Scarlatache (TUIASI); Mihai Gavrilas (TUIASI)
3	133	Optimal Recloser Placement in Distribution Networks to Improve Power Quality Indicators	Claudia Bondar (TUIASI); Bogdan Constantin Neagu (TUIASI)*; Gheorghe Grigoras (TUIASI)
4	1	Automation of Evaluation of Interlaboratory Comparison Results for Calibration Laboratories	Oleh Velychko (State Enterprise "Ukrmetrteststandard")*; Serhii Kursin (State Enterprise "Ukrmetrteststandard"); Tetyana Gordiyenko (State Enterprise "Ukrmetrteststandard"); Alexandru Salceanu (Gheorghe Asachi Technical University of Iaş)

5	17	Design of a laboratory stand for the study of sensors and sensory systems	Marius Branzila (TUIASI)*; Stefan Cislariu (Technical University "Gheorghe Asachi" of Iasi)
6	72	Wind Speed Estimation based on Power Law Extrapolation Technique	Dragos Machidon (TUIASI)*; Marcel Istrate (TUIASI); Constantin Razvan Beniuga (Technical University Gheorghe Asachi of Iasi)
7	99	Sizing strategies for energy storage systems based on autonomy time and technical factors	Daniela F Niste (Technical University Of Cluj-Napoca)*; Siviu Stefanescu (Technical University of Cluj-Napoca); Aurel Botezan (Technical University of Cluj-Napoca); Radu Tirnovan (Technical University of Cluj-Napoca); Corina Martineac (Technical University of Cluj-Napoca); Misaros Marius (Technical University of Cluj Napoca)
8	32	Design of an Axial Flux Machine with Distributed Winding for Automotive Applications: A Comparison of Different Rotor Structures	Bogdan Butnariu (Universitatea Tehnică din Cluj-Napoca)*; Abderrahmane REBHAOUI (Nidec PSA Emotors SAS); Razvan A Inte (Technical University of Cluj-Napoca); Florin Jurca (Universitatea Tehnică din Cluj-Napoca); Ioan Deac (Nidec PSA Emotors SAS); Claudia Martis (Technical University of Cluj-Napoca)
9	174	Asynchronous Torques Generated by Spatial Harmonics of Magnetomotive Forces	Ghenadie C Terteza (Technical University of Moldova)*; Petru Todos (Technical University of Moldova); Ilie Nuca (Technical University of Moldova)
10	146	Experimental Study of the Single-Phase Asynchronous Motor Without External Phase-Shifting Elements for Starting	Marcel Burduniuc (TUM); Vadim Cazac (Technical University of Moldova)*; Octavian Mangos (Technical University Of Moldova); Lucian Grușac (Technical University Of Moldova)
11	87	A study regarding the rotor configuration of a high-power density PMSM for Formula Student race car	Adrian Saridache (TUIASI); Laura Georgiana Patrasc (TUIASI); Florentin Trandabat (TUIASI); Cristina Schreiner (Technical Univ. Iasi)*; Raducu Machidon (TUIASI)
12	90	Node-RED Solution for Energy Monitoring in the University Campus of USV Using Janitza Devices	Radu V Fechet (USV); Gabriela RATA (Stefan cel Mare University of Suceava); Mihai RATA ("Stefan cel Mare" University); Adrian GRAUR (Stefan cel Mare University of Suceava)
13	92	Design of a Monitoring and Analysis of Energy Consumption System Based on PLC Techniques	Gabriela RATA (Stefan cel Mare University of Suceava), Mihai RATA, Radu Fechet, Adrian GRAUR

14	97	Impact of Voltage Unbalance and Harmonics on Induction Motor Efficiency	Horia G Beleiu (Technical University of Cluj-Napoca); Anca Miron (Technical University of Cluj-Napoca); Sorin Pavel (Technical University of Cluj-Napoca); Andrei Cziker (Technical University of Cluj Napoca); Daniela F Niste (Technical University Of Cluj-Napoca); Cosmin P Darab (Technical University of Cluj-Napoca)
15	165	Analysis of Coil Characteristics Using Modern Measurement Techniques	Vlad-Andrei A Scarlatache (Universitatea Tehnica Gheorghe Asachi Iasi); Marius Andrei Olariu (TUIASI); Florina Scarlatache (TUIASI); Sebastian T Aradoaei (TUIASI); Simionescu Ramona (TUIASI); Madalina Petronela Simion (TUIASI)
16	158	Using Hybrid PV-Hydrogen Storage Systems in Optimal Planning of Microgrids	Florina Scarlatache (TUIASI)*; Gheorghe Grigoras (TUIASI); Vlad-Andrei A Scarlatache (Universitatea Tehnica Gheorghe Asachi Iasi); Bogdan Constantin Neagu (TUIASI); Mihai Alexandru Baci (TUIASI)
17	3	Regular Training of Metrologists for Electrical Measurements	Tetyana Gordiyenko (State Enterprise "Ukrmetrteststandard"); Oleh Velychko (State Enterprise "Ukrmetrteststandard"); Alexandru Salceanu (TUIASI)
18	116	Virtual tool for biomedical signal synthesis	Constantin Daniel Oancea (National University of Science and Technology Politehnica of Bucharest)*
19	62	Digital Communication Capabilities of Low Voltage Circuit Breakers	Alin Dragomir (TUIASI); Bogdan-Andrei Pingescu (TUIASI); Maricel Adam(TUIASI); David Paizan (TUIASI); Dragos-George Astanei (TUIASI); Alexandra Bodoga (Faculty of Industrial Design and Business Management TUIASI)
20	66	Numerical Analysis of a Fractional Slot Concentrated Winding Synchronous Machine with Series Hybrid Excitation	Adrian Munteanu (Technical University Gheorghe Asachi of Iasi) *; Bogdan Virlan (TUIASI,); Leonard Livadaru (Gheorghe Asachi Technical University, Iasi, Romania); Ionut Nacu (TUIASI); Ion I Nastas (Technical University Gheorghe Asachi of Iasi); Alecsandru Simion (Technical University Gheorghe Asachi of Iasi)
21	38	Detection of Suitable Rooftops for Solar Panel Installation in the Southern Part of Sidi Bel Abbes, Algeria Using GIS Methodologies	Mohammed Debab (Ahmed Zabana University) *; Mohamed El Amine Boukli Hacene (Djilali Liabes University, Sidi Bel Abbes); Dorin Lucache (TUIASI)
22	139	Vienna rectifier vs. buck type topology in PFC applications	Denisa-Corina Mihaescu (Politehnica University of Timisoara); Sorin C Musuroi (Politehnica University of Timisoara); Ciprian Sorandaru (UPT)*; Valeriu-Nicola Olarescu (Diehl AKO Stiftung & Co. KG)

23	105	Enhancing the Performance of Open Winding Induction Generators for Variable Speed Generator Energy Applications	Marcel Topor (Politehnica University Timisoara); Feifei Bu (Nanjing University of Aeronautics and Astronautics); Liu Haozhe (Institute of Mechanical Engineering, University of Shanghai for Science and Technology); Sorin Ioan Deaconu (Academic Researcher) *
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