

ISEEE 2023: THE 8TH INTERNATIONAL SYMPOSIUM ON ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAM

Days: [Thursday, October 26th](#) [Friday, October 27th](#) [Saturday, October 28th](#)

Thursday, October 26th

09:00-09:30 Session 1: Opening ceremony

CHAIRS: [Dorel Aiordachioaie](#) and [Voncila Ion](#)

LOCATION: [D02 - amphitheater](#)

09:30-11:20 Session 2: Invited speakers

CHAIR: [Anisia Luiza Culea-Florescu](#)

LOCATION: [D02 - amphitheater](#)

09:30 [Jose Lopez Vicario](#), [Ivan Pisa](#), [Antoni Morell](#) and [Ramon Vilanova](#)

Learning on Scarce Data for Industrial Control: a Transfer Learning approach

10:20 [Tasos Dagiuklas](#)

The journey from 5G towards 6G

11:15-11:30Coffee Break

11:30-12:20 Session 3: Industry session (I)

DMT

CHAIR: [Voncila Ion](#)

LOCATION: [D02 - amphitheater](#)

11:30 [Radu Oanea](#)

Case study of the winch control system for setting and furling the sail of a ship with hybrid propulsion ([abstract](#))

12:30-13:30Lunch

<https://restaurant-royal.ro/>

13:30-15:10 Session 4: Electrical engineering (I)

CHAIR: [Voncila Ion](#)

LOCATION: [D02 - amphitheater](#)

13:30 [Mariana Dumitrescu](#)

Operational Risk Analysis for the Electric Power Station Protections ([abstract](#))

13:50 [Bogdan Hnatiuc](#), [Sorin Sinte](#), [Catalin Pomazan](#) and [Mihaela Hnatiuc](#)

Comparative study of harmonic generation by different types of Dimmers ([abstract](#))

14:10 [Bogdan Adrian Spanu](#) and [Bogdan Hnatiuc](#)

Identification the critical heating of supply conductors from a SIEMENS WL I 800 N automatic circuit breaker ([abstract](#))

14:30 [Anca Petruta Brincoveanu Dima](#), [Radu Plamanescu](#), [Ana-Maria Dumitrescu](#) and [Irina Ciornei](#)
Assessment of Power Profiles in LV distribution grids ([abstract](#))

14:50 [Bogdan Daniel Portasa](#) and [Larisa Diaconu](#)
Analysis of the Performance Impact in Industrial Control Process of Wastewater Systems when using DLT Sensor Authentication ([abstract](#))

15:15-15:30 Coffee Break

15:30-17:30 Session 5: Electronic engineering (I) - Signal processing applications

CHAIR: [Laurentiu Frangu](#)

LOCATION: [D02 - amphitheater](#)

15:30 [Alexandru Pohontu](#), [Andrei Darius Deliu](#) and [Constantin Vertan](#)
Ship Type Classification: a Handwriting Signature Verification Approach for Maritime Trajectories ([abstract](#))

15:50 [Mihaela Miron](#), [Anisia Culea-Florescu](#) and [Simona Moldovanu](#)
Diabetic Retinopathy Image Classification Using Machine Learning and Local Binary Patterns Features ([abstract](#))

16:10 [Simona Moldovanu](#), [Sorin Pavel](#) and [Dorel Aiordachioaie](#)
First Order Features Extraction from Thermal Images for Human State Recognition ([abstract](#))

16:30 [Constantin Paleologu](#), [Jacob Benesty](#), [Cristian Lucian Stanciu](#), [Ruxandra Liana Costea](#), [Laura-Maria Dogariu](#) and [Silviu Ciochină](#)
Iterative Wiener Filter Based on Third-Order Tensor Decomposition and Coordinate Descent Method ([abstract](#))

16:50 [Sebastian Sbirna](#) and [Liana-Simona Sbirna](#)
Modeling, Experimental Simulations And Probability Estimation Upon A Computationally-Efficient Discretization Algorithm For Jump-Type Lévy Processes ([abstract](#))

17:10 [Laurentiu Marius Baicu](#), [Bogdan Dumitrascu](#) and [Mihaela Andrei](#)
Automotive vibration analysis using ESP8266 microcontroller ([abstract](#))

17:30-19:10 Session 6: Electrical engineering (II)

CHAIRS: [Nicolae Badea](#) and [Marian Gaiceanu](#)

LOCATION: [D02 - amphitheater](#)

17:30 [Cansel Sahin](#), [Gokturk Poyrazoglu](#) and [Ismail Yilmazlar](#)
Improved LNB Power Circuit Design for Enhanced Reliability by Current Limiting Control ([abstract](#))  

17:50 [Dylano Termoshuizen](#), [Diëgo Zuidervliet](#) and [Peter van Duijsen](#)
Configurable Educational DC System Trainer Combining Universal Code and Hardware ([abstract](#))

18:10 [Justin Constantin](#) and [Alexandru Dinu](#)
Solution for efficiently charging of a camper van battery ([abstract](#))

18:30 [Elena Selim](#) and [Ion Voncila](#)

State Of Charge Estimation In Real Time Of Li-Ion Battery Integrated On Electric Vehicles ([abstract](#))

18:50 [Mustafa Engin Başoğlu](#)

Distributed maximum power point tracking approaches in building integrated photovoltaic systems ([abstract](#))

19:30-22:00 Welcome dinner

<https://restaurant-royal.ro/>

Friday, October 27th

View this program: [with abstracts session overview talk overview](#)

09:00-09:50 Session 7: Invited speaker

CHAIR: [Razvan Solea](#)

LOCATION: [D02 - amphitheater](#)

09:00 [Antoneta Iuliana Bratcu](#), [Iulian Munteanu](#), [Olivier Sename](#) and [Delphine Riu](#)

Hybridization of Energy Storage Units for Energy Transition Applications: A Focus on Control and Coordination Approaches

09:50-10:40 Session 8: Industry session (II)

CHAIR: [Mariana Dumitrescu](#)

LOCATION: [D02 - amphitheater](#)

09:50 [Ákos Koppány Kiss](#)

Leveraging interoperability between academic disciplines with MATLAB ([abstract](#))

10:45-11:00 Coffee Break

11:00-11:50 Session 9: Industry session (III)

CHAIR: [Anisia Luiza Culea-Florescu](#)

LOCATION: [D02 - amphitheater](#)

11:00 [Lucian Itu](#)

Empowering Personalized Medicine through Privacy-Preserving AI, ([abstract](#))

12:00-12:45 Session 10: REXDAN research facility visit

<https://www.rexdan.ugal.ro/index.php/en/about-the-project/description>

CHAIR: [Marian Barbu](#)

LOCATION: [REXDAN Ship](#)

12:45-13:45 Lunch

<https://www.rexdan.ugal.ro/index.php/en/about-the-project/description>

14:00-16:00 Session 11: Electronic engineering (II) - Artificial intelligence techniques and tools

CHAIR: [Simona Moldovanu](#)

LOCATION: [D02 - amphitheater](#)

14:00 [Dorel Aiordachioaie](#)

On Signal Analysis with ANN and PSO Techniques ([abstract](#))

14:20 [Dorel Aiordachioaie](#) and [Gabriel Sirbu](#)

A Short Comparison between PSO and QPSO for Signal Processing Applications ([abstract](#))

14:40 [Gabriel Sirbu](#), [Laurentiu Frangu](#) and [Dorel Aiordachioaie](#)

Aspects of Artificial Intelligence Conversion from PC to Pumpkin boards ([abstract](#))

15:00 [Radu Dogaru](#) and [Ioana Dogaru](#)

V-CNN: A versatile light CNN structure for image recognition on resources-constrained platforms ([abstract](#))

15:20 [Mesut Tunçer](#), [Berat Yıldız](#) and [Akif Durdu](#)

Graph-Based Collision Avoidance Algorithm Among Swarm Agents ([abstract](#))

15:40 [Radu Dogaru](#), [Adrian-Dumitru Mirică](#) and [Ioana Dogaru](#)

XNL-CNN: An improved version of the NL-CNN model, for running with TPU accelerators and large image datasets ([abstract](#))

16:00-16:15 Coffee Break

16:15-18:00 Session 12: Electrical engineering (III)

CHAIR: [Mariana Dumitrescu](#)

16:15 [Ion Voncilă](#), [Elena Selim](#), [Ion Paraschiv](#) and [Mădălin Costin](#)

Thermal regime of induction motors after rewinding for other characteristics than those established by design ([abstract](#))

16:35 [Mircea Rădulescu](#)

Transient Electromagnetic Processes in a Three-Phase Cage Induction Motor due to Sudden Disconnection and Fast Reconnection of Its Electric Power Supply ([abstract](#))

16:55 [Romeo Padurar](#), [Cristinel Craciun](#), [Traian Munteanu](#) and [Adriana Burlibasa](#)

EMC aspects in power conversion systems ([abstract](#))

17:15 [Nicolae Badea](#), [Ciprian Vlad](#) and [Cristian Victor Lungu](#)

Modelling, Simulation and Implementation of Grid-connected Inverter ([abstract](#))

17:35 [Adriana Burlibasa](#), [Romeo Padurar](#), [Traian Munteanu](#), [Cristinel Dache](#) and [Teodor Dumitriu](#)

PV simulator packaged as a standalone application based Docker container ([abstract](#))

18:00-20:00 Session 13: Electronic engineering (III)

CHAIR: [George Petrea](#)

LOCATION: [D02 - amphitheater](#)

18:00 [Marius Pascu](#), [Roxana Turcanu](#) and [Alexandru Dinu](#)

Semaphores and Real-Time Operation to Optimize the Efficiency of Electronic Processes Controlled via Internet ([abstract](#))

- 18:20 [Ioan Corneliu Sălișteanu](#), [Valentin Dogaru-Ulieru](#), [Ionut Cotoi](#), [Andrei Butcu](#), [Paul Bogdan Salisteanu](#) and [Mihăiță Nicolae Ardeleanu](#)
SiaMOTO - Intelligent automatic traffic monitoring system for the vehicle operator ([abstract](#))
- 18:40 [Daniel Deperateanu](#), [Cristina Despina-Stoian](#), [Florin Enache](#), [Florin Popescu](#) and [Lucian Antion](#)
Design of Waveguide Sparse Array Antenna by Optimization with Genetic Algorithm ([abstract](#))
- 19:00 [Koen de Bruin](#), [Diëgo Zuidervliet](#) and [Peter van Duijsen](#)
FPGA based data acquisition for DC Grids ([abstract](#))
- 19:20 [Mihaela Andrei](#), [Viorel Nicolau](#) and [George Petrea](#)
Aspects of Block Interleavers Influence in MIMO Systems Affected by Impulsive Noises ([abstract](#))
- 19:40 [Nicusor Nistor](#), [Bogdan Dumitrascu](#) and [Laurentiu Baicu](#)
Automated microcontroller tester for the characteristics calculation in microwaves antennas ([abstract](#))

20:00-22:00 Gala dinner

<https://galtour-dunarea.ro/sala-de-evenimente-panoramic-hall/>

Saturday, October 28th

08:00-18:00 Excursion

Odobesti - Panciu wine tasting

<https://www.domeniilepanciuresort.ro/>

CHAIR: [Cristinel Radu Dache](#)

LOCATION: [Odobesti - Panciu](#)