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

## PROGRAM

Days:

### Thursday, October 26th

View this program:

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

CHAIRS: *Dorel Aiordachioaie* and *Voncila Ion*
LOCATION:  D02 - amphitheater

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

| 11:15-11:30 | Coffee Break |
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| 11:30-12:20 | Session 3: Industry session (I) |
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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)

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| **12:30-13:30** | Lunch |

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| **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 Sintea*, *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)

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| **15:15-15:30** | Coffee Break |

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| **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 *Iustin 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 phovoltaic systems** (abstract)

**19:30-22:00**  Welcome dinner

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 |
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| 11:00-11:50 | Session 9: Industry session (III) |
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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 |
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CHAIR: *Marian Barbu*
LOCATION: REXDAN Ship

| 12:45-13:45 | Lunch |
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| 14:00-16:00 | Session 11: Electronic engineering (II) - Artificial intelligence techniques and tools |
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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 Comparation 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 |
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## 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 Paduraru*, *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 Paduraru*, *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 Deparateanu*, *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 |

## Saturday, October 28th

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

| 08:00-18:00 | Excursion |

Odobesti - Panciu wine tasting

CHAIR: *Cristinel Radu Dache*
LOCATION: [Odobesti - Panciu](#)