"DUNAREA DE JOS" UNIVERSITY OF GALATI
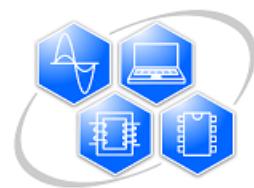
UNIVERSITAS
GALATIENSIS

FACULTY OF AUTOMATION, COMPUTERS SCIENCE, ELECTRICAL AND ELECTRONICS ENGINEERING

ISEEE-2021

The 7th International Symposium on
Electrical and Electronics Engineering

October 28-30, 2021
Galaţi, Romania

General Preliminary PROGRAM

IEEE

Galati, Romania

THURSDAY 28 OCTOBER 2021					
9:30 – 11:30	REGISTRATION (Microsoft Teams)				
12:00 – 12:30	Welcome to the 7th edition of the Symposium on Electrical and Electronics Engineering -Opening Session (General)				
12:30 – 13:00	PLENARY SESSION (PS1) - (General)				
13:00 – 13:15	Break				
13:15 – 13:45	PLENARY SESSION (PS2) - (General)				
13:45 – 14:30	Break				
14:30 – 16:30	TECHNICAL SESSIONS				
	TS1 (Channel 1)		TS3 (Channel 3)		TS5 (Channel 5)
16:30 – 17:30	REGISTRATION (Microsoft Teams)				
FRIDAY 29 OCTOBER 2021					
10:00 – 12:00	REGISTRATION (Microsoft Teams)				
12:15 – 12:45	PLENARY SESSION (PS3) - (General)				
12:45 – 13:00	Break				
13:00 – 15.00	TECHNICAL SESSIONS				
	TS4 (Channel 4)		TS6 (Channel 6)		TS2 (Channel 2)

PS1 **Strategic Directions of Application Research in Electrical Engineering on the Horizon 2050**

Mihai Octavian Popescu., Claudia Popescu

University POLITEHNICA of Bucharest

Chair **Marian Gaiceanu**

PS2 **Current Standards and Regulations for Wireless Battery Charging Systems**

Andrei Marinescu

Research , Development and Testing National Institute for Electrical Engineering - ICMET CRAIOVA

Chair **Marian Gaiceanu**

PS3 **New Achievements in the Rotor Field-Oriented Control for Autonomous Locomotives Part 2: Control Implementation and Experimental Performances at Low Speed**

Alexandru Bitoleanu, Mihaela Popescu, Constantin Vlad Suru and Lavinius Sorin Goreci

University of Craiova

Chair **Marian Gaiceanu**

TS1 - *Power Electronics and Electrical Drives I*

Chair **Mihai-Octavian Popescu, Mihaela Popescu Alexandru Bitoleanu**
Secretary **Cristinel Dache**

1. **Mihaela Popescu and Alexandru Bitoleanu** - *New Achievements in the Rotor Field -Oriented Control for Autonomous Locomotives Part 1: System synthesis and theoretical investigations*
2. **Constantin Vlad Suru, Mihaela Popescu, Mihaita Linca and Mircea Dobriceanu** - *Control Implementation for Battery Charging in Autonomous Locomotive on dSPACE 1104 DSP Board*
3. **Alexandru Savulescu** - *A possibility of energy recovery in the electric drive of crude oil pumping units*
4. **Alexandru Savulescu** - *Study of an objective function of the energetic parameters for the electric drive of a beam pumping unit*
5. **Alexandru Dusa, Emil Mina Rosu, Silviu Ionut Epure, Razvan Constantin Solea, Marian Gaiceanu and Arsene Liviu Sorin** - *Improving the power quality using the Active Power Filter. Experimental results*

TS2 - *Data & Signal Processing*

Chair **Horia Nicolai Teodorescu**
Co-Chair **Laurentiu Frangu**
Secretary **Rustem Popa**

1. **Cecilia Bolea** - *Implementation of an Algorithm for Automatic Segmentation of Texts Based on Stylometric Analysis*
2. **Horia Nicolai Teodorescu and Marius Hagan** - *Correlational Analysis of Foot Plantar Pressure Signal*
3. **Horia-Nicolai Teodorescu** - *Noise Equilibrium Frequency as a Measure of the Low Noise Devices Quality Involves the Lambert Function*

4. **Marius Sorin Pavel and Rustem Popa** - *An algorithm for pseudocoloring images in FPGA*
5. **Simona-Vasilica Oprea, Adela Bâra and Gabriela Dobrita** - *Big Data Solutions for Extracting Load Flexibility Potential and Assessing Benefits*
6. **Bogdan Ionescu, Marian Craciun, George Petrea, Silviu Epure, Catalin Arama and Ciprian Vlad** - *Health home-monitoring system based on IoT*

TS3 - *Power Electronics and Electrical Drives II*

Chair **Emil Cazacu**
Co-Chair **Marian Gaiceanu**
Secretary **Marius Solomon**

1. <u>**Emil Cazacu,**</u> <u>**Marian Barbu**</u> **and** <u>**Lucian Petrescu**</u> - *Inrush current and ferroresonance in low-voltage networks – An integral approach*
2. **Marius Dranca, Mihai Chirca, Stefan Breban and Daniel Fodorean** - *Comparative Design Analysis of Two Modular Permanent Magnet Synchronous Generators*
3. <u>**Marius Solomon**</u> **and** <u>**Marian Gaiceanu**</u> - *The Optimization of the Dynamic Regime of the Asynchronous Vectorial AC Motor in Flying Shear*
4. **Razvan Buhosu, Marian Gaiceanu, Răzvan Șolea, Iulian Ghenea and Marius George Solomon** - *Non-linear control of 2WS vehicles*
5. **Dache Cristinel Radu, Epure Silviu, Dușa Alexandru, Șolea Răzvan, Găiceanu Marian and Drogeanu Constantin** - *The influence of the type of connection of the filter coils on the efficiency of the filtration process*

TS4 – *Automatic Control and Power Systems*

Chair **Viorel Minzu**
Co-Chair **Dumitrescu Mariana**
Secretary **Iulian Ghenea**

1. <u>**Viorel Minzu**</u> **and** <u>**George Ifrim**</u> - *Optimal Control of Microalgae Growth in Artificially Lighted Photobioreactors*
2. **Fırat Bilgin and Musa Alcı** - *Generating Z-number by Logistic Regression*
3. **Djamel Ikni and Elena Raducan** - *Comparative Study Between the Flatness-Based and Field-Oriented Control of a Wind-Energy System*
4. **Dumitrescu Mariana** - *Electric Power Supply Fault Tolerant Analysis for a Naval System*
5. <u>**Daniel Ganea**</u> **and** <u>**Ciprian Vlad**</u> - *The potential of renewable energies in Romania*

TS5– *Electromagnetic Compatibility and Electrical Engineering Tools*

Chair **Florin Ciuprina, Florin, Constantinescu**
Secretary **Mihaela Andrei**

1. **Laura Andrei, Florin Ciuprina, Elena Ruxandra Radu, Augusta Raluca Gabor and Denis Mihaela Panaitescu** - *Dielectric performances of LSR-SiO2 nanocomposites for wearable antennas substrate*
2. **Valentin Nae, Iancu Ciocioi, Gheorghe Samoilescu and Adelina Rodica Bordianu** - *Electromagnetic compatibility of radiocommunication equipment on board a ship*
3. **Adelina Rodica Bordianu, Gheorghe Samoilescu, Iancu Ciocioi and Valentin Nae** - *Electromagnetic shielding for the protection of the human factor on board a ship*
4. **Ion Voncilă, Ion Paraschiv and Mădălin Costin** - *The Influence of Saturation on the Performance of PMSM*
5. **Marian Costea and Tudor Leonida** - *Radiofrequency Disturbances produced by Insulators Strings in wet Conditions*
6. **George Petrea, Viorel Nicolau and Mihaela Andrei** - *On controller integration for electrostatic precipitator*

TS6 – Power Systems and Software Engineering

Chair **Horia Andrei**
Co-Chair **Emil Diaconu**
Secretary **Cristinel Dache**

1. **Horia Andrei, Emil Diaconu, Andrei Gheorghe, Marilena Stanculescu, Radu Porumb, George Seritan, Paul Andrei, Nicu Bizon, Alin Mazare, Laurentiu Ionescu, Marian Gaiceanu and Sorin Deleanu** - *Energy Consumption, Pandemic Period and Online Academic Education: Case Studies in Romanian Universities*
2. **Valentin Ion, Horia Andrei, Emil Diaconu, Dan Puchianu and Andrei Cosmin Gheorghe** - *Modelling the electrical characteristics of video surveillance systems*
3. **Valentin Ion, Horia Andrei, Emil Diaconu, Dan Puchianu and Mihaita Ardeleanu** - *Modelling of Electrical Characteristics for an Anti-Theft Alarm System*
4. **Ionut Craiu, Simona Mihai, Liviu Olteanu, Emil Diaconu and Mihaita Ardeleanu** - *Study of the possibility of transferring thermal energy by conduction through a solid substance, in concentrated solar power systems*
5. **Valentin Ion, Horia Andrei, Emil Diaconu, Dan Puchianu and Andrei Cosmin Gheorghe** - *Cost and energy consumption analysis of residential security systems*