



## Joint International Conference OPTIM-ACEMP: Optimization of Electrical & Electronic Equipment (OPTIM) Aegean Conference on Electrical Machines and Power Electronics (ACEMP)

... **Brasov, Romania, 2 – 4 September, 2021**

Organized and sponsored by: Transilvania University of Brasov, Romania  
Middle East Technical University, Ankara, Turkey  
Technically co-sponsored by: IEEE Industrial Electronics Society, Industry Applications Society &  
Power Electronics Society

A biannual International Conference submitting presented papers to IEEE Xplore

### Technical Tracks

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**T1: Power Systems and Electromagnetics.** Electric Circuits and Networks, Electromagnetic Field, Electromagnetic Materials, Components and Applications, EMC/EMI, Power Systems, Power Quality, Electrical Apparatus, Transmission, High Voltage, Electric Arc, Plasma, Utility Applications, Safety and Reliability in Power Engineering. **Track chairs:** **Mihai Cernat (Romania), Bulent Ertan (Turkey)**

**T2: Electrical Machines, Industrial Drives and Control.** AC/DC Motor Drives, Motion and Drive Control, Sensorless Control, Electric Propulsion, Automotive Applications, Electrical Machines Design and Modelling, Thermal, Noise and Vibrations Issues, Electric Generators and their Control, Testing and Diagnostics. **Track chairs:** **Ion Boldea (Romania), Dan Ionel (USA), Pedram Asef (UK)**

**T3: Power Electronics and Power Conversion.** Power Electronics Modelling, Simulation, Design, Control, DC/DC Conversion, AC/AC Converters, Rectifiers, Inverters, PWM Systems, Converters for Electric and Hybrid Electric Vehicles, Power Electronic Devices and Systems, Semiconductors, UPS, Active and Hybrid Filtering, Power Line Conditioning, DSP and Microcontrollers for Power Electronics and Control. **Track chairs:** **Dorin Petreus (Romania), Dorin Neacsu (USA)**

**T4: Renewable Electric Energy Conversion, Processing and Storage.** Wind Energy, Photovoltaics, Hydro/Micro-hydro Power, Battery Technologies, Fuel Cells & Hydrogen Storage, other Energy Storage Technologies, Distributed Generation Systems. Smart Grids, Intelligent Environment, Building Management. **Track chairs:** **Remus Teodorescu (Denmark), Ioan Serban (Romania)**

**T5: Applied Electronics, Mechatronics, Control and Automation.** Computer Vision, Image Processing, Signal Processing, Modelling, Simulation, Artificial Intelligence, Mechatronics, Robotics, Human-Machine Interface Technology, Automation, Smart Sensors, Control Systems, Embedded Systems. **Track chairs:** **Silvia Cirstea (UK), Jin Zhang (UK)**

**T6: Electrical Engineering Education and Emerging Technologies.** Novel Educational Tools, Methods and Materials, Distance Learning, Information and Communication Technologies in Laboratories, University-Industry Collaboration, New Holistic Systems Modelling. **Track chairs:** **Elena Helerea (Romania), Cristina Luca (UK)**

**Special Sessions.** Industry news, Others (subject to proposals received).

**Track chairs:** **Cristina Luca (UK), Elena Helerea (Romania)**

#### Expected Plenary Session Speakers:

**Prof. Frede Blaabjerg**, Aalborg University (Denmark): "Power Electronics Technology - Quo Vadis"

**Prof. Ronghai Qu**, IEEE Fellow (China): "Highly-compacted Electrical Machines with Dual-mechanical-port & Dual-electrical-port"

**Prof. Bülent Şarlioğlu**, University of Wisconsin-Madison (USA): "Re-emergence of Current Source Inverters using Wide Bandgap Devices and Comparison with Voltage Source Inverters"

**Prof. Babak Fahimi**, University of Texas (USA): "Motor Whisperer: On the Art of Dialogue with Electric Machinery"

**Prof. Akira Chiba**, Nikola Tesla award (Japan): "Bearingless and reluctance motor drives"

**Dr. Christian von Albrichsfeld**, Head of Continental's Automotive Eng. (Romania)

**Dr. Otilia Boaghe**, ARM (UK) "RISC processors' verification: challenges & innovative solutions"

**Submission of papers:** A full paper proposal describing work not previously published or presented has to be electronically submitted in PDF file through the conference website no later than the deadline. Selection will be based upon full length 6-8 A4 pages paper proposals in IEEE double column format.

#### Important dates:

Special session proposals: February 22, 2021

Contributed full papers: May 17, 2021

Notification of acceptance: June 30, 2021

Final submissions due: July 13, 2021

Paper registration closes: July 25, 2021

<http://www.info-optim.ro>

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