

Joint
International
Conference



OPTIM ACEMP 2025

Optimization of Electrical
& Electronic Equipment (**OPTIM**)
Aegean Conference on Electrical Machines
and Power Electronics (**ACEMP**)



15th - 17th, May
09:00 AM - 16:00 PM



Timișoara
România



Organized and sponsored by

Politehnica University Timișoara, Romania
Transilvania University of Brașov, Romania
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Technically co-sponsored by

IEEE Industry Applications Society
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Technical Tracks

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), Ivan Yatchev (Bulgaria), Dumitru Toader (Romania)

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), Mircea Radulescu (Romania) Dan Ionel (USA), Pedram Asef (UK), H. Bülent Ertan (Türkiye)

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 Petreuş (Romania), Dan Lascu (Romania), Pavol BAUER (Netherlands)

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), Timur Aydemir (Türkiye)

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), Radu Etz (Romania)



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), Sorina Costinas (Romania)

Special Sessions

Industry news, Others (subject to proposals received)

Track chairs: Bulent Sarlioglu (USA), Ion Boldea (RO)

May, 15 - 16th, Full conference days

May, 17th, Cultures/touristic day for all



Plenary Session Speakers

Prof. Frede Blaabjerg, Aalborg University (Denmark): "On Renewable Energy Penetration"

Prof. Dan Ionel, University of Kentucky (USA): "The efficiency advanced electric motors for variable speed drives"

Prof. Babak Fahimi, University of Texas (USA): "Electric Automotive Power Electronics Issues: from Propulsion through actuators, Batteries, Charging, V2T etc."

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

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

Dr. Sever Scridon, ZF Romania, ZF Automotive Perspectives

Prof. Ke Ma, University of Jiatong, Shanghai, Advanced Power Electronics

Prof. Vladimir Katic, University of Novi-Sad

The Venue

UPT Conference Center

Vasile Pârvan no.2,
Timișoara
România

<https://library.upt.ro/>



The City

Timișoara

The European Capital of Culture in 2023 and the first European city to use electric street lighting (1884) fed from the hydro power plant of the city.

Timisoara is situated in the western corner of Romania, where three countries (Romania, Hungary and Serbia) and several cultures, nationalities, languages and customs converge. Timisoara is the place where the 1989 Revolution started in 17 December 1989.

The central square, Piața Victoriei, is surrounded by baroque buildings and the Metropolitan Orthodox Cathedral, with its mosaic-patterned roof tiles and icon gallery. Nearby is the Habsburg-era square Piața Unirii and the Memorial Museum of the 1989 Revolution.

Timisoara was the first city in Europe in which the electric street lighting was introduced. The plant and the lighting installation were opened for a trial period between 15 and 30 November. Commissioned in November 1884, the Electric Power Plant of Timisoara laid the ground of the Romanian Power System.

Video presentation: <https://www.youtube.com/watch?v=Xc8QxOXFWsA>

Slide presentation: <https://docs.google.com/presentation/d/14NYWgOoGvHUyhiNBE-TOHtl76cHePI-Qm/edit?usp=sharing&ouid=111213603271238467920&rtfpof=true&sd=true>



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Submission of papers

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. (Template available here: <https://www.ieee.org/conferences/publishing/templates.html>
https://docs.google.com/document/d/18_DxY2le-S6GG7alxXhPrrOYAYKcfr2c/edit?usp=sharing&ouid=111213603271238467920&rtopof=true&sd=true)

Important dates

Special session proposals: Sept. 14th, 2024
Contributed full papers: Dec. 15th, 2024
Notification of acceptance: Febr. 15th, 2025

Final submissions due: Mar. 15th, 2025
Paper registration closes: Apr. 15th, 2025

For more information contact

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