



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, Atılım 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

Conference Chairs:

Marcian CIRSTEA,
Anglia Ruskin University, UK

Bulent ERTAN,
Middle East Technical Univ., TR

Conference Vice-Chairs:

Ion BOLDEA, RO
Bülent ŞARLIOĞLU, USA

Conference Program Chair:
Mihai CERNAT, RO

Conference Program Vice-Chairs:

Carmen GERIGAN, RO
Ozan KEYSAN, TR

International Board (active)

Goce ARSOV, MK
Pavol BAUER, NL
Radu BOJOI, IT
Luis GOMES, PT
Marek JASINKI, PL
Ralph KENNEL, D
Peter KORONDI, HU
Ioan LAGER, NL
Dorin NEACSU, USA/RO
Kouhei OHNISHI, JP
Teresa ORLOWSKA, PL
Raul RABINOVICI, IS
Sergey RYVKIN, RU
Volker STAUDT, D
Emanuel TATAKIS, GR
Remus TEODORESCU, DK
Jan VITTEK, Slovakia
Ivan YATCHEV, BG

International Steering Committee

(Past Honorary Chairs)
Dushan BOROYEVICH, USA
Rik DE DONCKER, D
Manfred STIEBLER, D
Dierk SCHRÖDER, D
Dan WILAMOWSKI, USA

Publication Chair

Razvan DINITA, UK

Finance Chair

Carmen GERIGAN, RO

Local Organising Committee (RO)

Lia ACIU, BV, Chair
Sorin MUSUROI, TM
Dorin PETREUS, CJ
Mircea RADULESCU, CJ
Sever SCRIDON, TM

Treasurer

Diana THIERHEIMER, RO

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. Joachim Holtz (Germany): "Increasing the Energy Efficiency of Electric Drives"

Prof. Frede Blaabjerg, Aalborg University (Denmark), past President of IEEE PELS: "Power Electronics Technology - Quo Vadis"

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

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

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

Final submissions due: June 30, 2021

Contributed full papers: **May 17, 2021**

Early registration closes: July 15, 2021

Notification of acceptance: **June 15, 2021**

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

For more information contact:

Mihai CERNAT, Technical Programme Chair,
mihacernat@yahoo.com, m.cernat@unitbv.ro
Lia ACIU, Local Organising Committee Chair,
lia_aciu@unitbv.ro

OPTIM Secretariat, Transilvania Univ. of
Brasov, Str. Politehnicii nr.1, Brasov, Romania,
RO 500024. Tel./Fax: +40-268-474718



LOCATION

The OPTIM-ACEMP 2021 Conference location is Cheile Gradistei Resort, situated in Fundata, at 12 km from Bran Castle (Dracula's Castle, above image, built around 1370) and at 35 km from Brasov city.



CHEILE GRADISTEI Resort, Fundata
<http://www.cheilegradistei.ro>
 Phone, Fax: +40-(0)268-237.419
 Mobile: +40-(0)723.315.582



Potential excursions: Poiana Brasov and Peles Castle

Poiana Brasov (12 km away from Brasov) and Peles Castle (Sinaia, 40 km away from Brasov) are two of Romania's main attractions. Both lie in Brasov's neighbourhood and are worthy a visit.

Poiana Brasov is the favourite tourist destination in Romania. Only 12 km away from Brasov, up in the mountains lies the unique winter and summer resort: "Poiana Brasov" with about ten major ski slopes, two cable rails, and lots of Romanian style restaurants. Tennis courts and swimming pools open in the warm season, and boat rides, mountain climbing, horse



riding and many other great sports activities can be enjoyed. A public transportation service offers bus transport from near the Brasov County Library.

Peles Castle

Located in Sinaia (40 km, 1 hour drive or train trip from Brasov), Peles Castle, Romania's most famous royal castle, was built between 1875 and 1883, when it was inaugurated as the summer residence of King Carol 1st of Romania. Both at the end of the 19th century, and nowadays, Peles Castle was and is considered to be one of the most beautiful castles in Europe. Its dominating architectural style is German neo-Renaissance.



It was the first entirely electrified edifice on the continent. Its own power station was located on the banks of Peles Brook. Further, the building was equipped from the beginning with an interior elevator, vacuum cleaner, and central-heating system. The castle has 170 rooms, of which only 10 can be visited by tourists. It shelters various valuable collections of paintings, sculptures, armours, carpets, furniture, tapestries, statues, pottery, gold, silver and China dishes, stained-glasses and so on.

The visiting hours are from 9 a.m. to 5 p.m Wednesday through Sunday. On Mondays the castle is closed and on Tuesdays the hours are from 11 a.m. to 5 p.m. The admission fee is between 20 – 50 RON.

Estimated registration fees (bank transfer, tax not included):

395 EUR for each participant (author or non author), includes attendance to all conference sessions, conference bag (conference programme, proceedings on CDROM, volume of Abstracts), invitations to the welcome reception and the banquet, 3 meals per day for 3 days, transport by bus organized from and to the Bucharest International Airport, one trip from those listed on conference website.

250 EUR for each companion, includes invitation to the welcome reception and the banquet, 3 meals per day for 3 days, transport by bus organized from and to the Bucharest International Airport, three trips from those listed on conference website.