

Joint International Conference



ACEMP

2019

Aegean Conference on Electrical
Machines and Power Electronics



OPTIM

Optimization of Electrical &
Electronic Equipment Conference

Technical co-sponsors:
IEEE IES, IAS & PELS



Middle East Technical U.



Atılım Univ.



Transilvania U. of Brasov



U. Politehnica of Timisoara



Technical U. Cluj-Napoca

Istanbul, Turkey, 27-29 August

Conference Chair:

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Conference Vice-Chairs:

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Politehnica of Timisoara, RO

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Technical Program Chairs:

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Mihai CERNAT
Transilvania University of
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Introduction: In 2014, steering committees of OPTIM and ACEMP conferences decided to organize these conferences jointly in the future, thus increasing the quality, participation, international recognition and reputation of both conferences. The first joint event was held in Side, Turkey in 2015. This was followed by a successful event in Brasov, Romania, in 2017. The 2019 joint conference is planned to take place on end of August 2019 in İstanbul, Turkey, where Europe meets Asia. In the true tradition of ACEMP and OPTIM, once again the meeting will include presentations by well-known scientists in the electrical machines and power electronics subject areas. We are looking forward to your participation to make this conference a memorable occasion.

Technical Tracks

T1: Electrical Machines, Industrial Drives and Control. Electrical Machines Design and Modelling, Thermal, Noise and Vibrations Issues, diagnostics, AC/DC Motor Drives, Motion and Drive Control, Sensorless Control, Electric Propulsion, Automotive Applications.

Track chairs: Murat Barut (TR), Dan M. Ionel (USA), Volker Staudt (D), Ion Boldea (RO)

T2: Power Electronics and Power Conversion. Power Electronics Modelling, Simulation, Control, DC/DC Conversion, AC/AC Converters, Rectifiers, Inverters, Converters for Electric and Hybrid Vehicles. Semiconductors, UPS, Active and Hybrid Filtering, Power Line Conditioning,

TC: Ozan Keysan (TR), Ralph Kennel (D), Dorin Neacsu (USA/RO), Alex Ruderman (KZ)

T3: Renewable Electric Energy Conversion, Processing and Storage. Wind Energy, Photovoltaics, Hydro and Micro-hydro Power, Battery Technologies, Fuel Cells and Hydrogen Storage, other Energy Storage Technologies, Distributed Generation Systems. SmartGrids.

Track chairs: Timur Aydemir, (TR), Remus Teodorescu (DK), Corneliu Marinescu (RO)

T4: Magnets and Materials. Applications in energy conversion devices.

Track chairs: Ersan Kabalci (TR), Seta Bogosyan (USA), Elena Helerea (RO)

T5: Mechatronics, Industrial Automation and Control. Mechatronics, Robotics, Process Automation, Signal Processing, Neural Networks, Fuzzy Logic, Genetic Algorithms, Predictive Control, Variable Structure Control.

TC: Jan Vittek (SK), Calin Ciufudean (RO), Emine Bostancı (Turkey), Yousef Ibrahim (AU)

T6: Electrical Engineering Education and Emerging Education Technologies.

Track chairs: İlhami Colak (TR), Stan Valtchev (PT), Lia Elena Aciu (RO),

Special Sessions. Industry news & other subjects (Please submit proposals by April 2019)

Track chairs: Tamas Ruzsanyi (HU), Mihai Cernat (RO), Dorin Petreus (RO)

Keynote Speakers: (Next page for titles)

Ion Boldea, University Politehnica of Timisoara, RO *Renewable energy) systems*

Pavol Bauer, TU Delft, Netherlands *The Future of EV Charging*

Ali Emadi, McMaster University, Canada *Electric car Motor and Power Electronics*

Masato Enokizono, Oita University, Japan *Materials for High Efficiency Motors*

Norbert Hanigovszki, Danfoss A/S, Denmark *Trends in the adjustable speed drive industry*

Thomas M. Jahns, University of Wisconsin-Madison, USA *Electric Aircraft*

Bülent Şarlıoğlu, University of Wisconsin-Madison, USA *Automotive Power Electronics*

Important dates:

Special session proposals: April 15, 2019

Contributed full papers: April 1, 2019

Notification of acceptance: June 15, 2019

Final submissions due: July 10, 2019

Early registration closes: July 30, 2019

<http://www.acemp.metu.edu.tr>

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.



LOCATION

Formerly known as Constantinople, and before that as Byzantium, Istanbul was founded at a crossroad between Europe and Asia, Christianity and Islam. It was the capital city of the Roman, Byzantine and Ottoman Empires and briefly the capital city of the Turkish Republic, each opening the city's doors to friends and firmly shutting them to enemies. The city was attacked more than 60 times. In ancient times, the Greeks, Athenians, Persians and Spartans fought to capture it; so did the Gauls and the Macedonians. The Romans finally took it and renamed it after Constantine the Great, who declared it the new capital of a united Roman Empire. Something about this city by the water compelled its leaders to spare no efforts in aggrandizing it. The Byzantine Empire spent countless fortunes building palaces, churches, and other buildings. So did the Ottoman Empire, which captured the city in 1453 and proceeded to cover the city with palaces, mosques and water fountains. Their efforts stood in stark contrast with those who were left outside the walls. Those who penetrated its walls by force took great pleasure in tearing the city down, stealing its treasures and hauling anything that could be carried back home across long distances. What man could not destroy, nature took away. Dozens of earthquakes have shaken the city throughout its history, turning buildings to dust. Like many cities in the world, Istanbul long ago lived its golden era. Today, it is poverty, pollution and social problems that besiege the city. Yet, Istanbul retains its exuberance, its charm, and its place in history.

Pavol Bauer,	TU Delft, Netherlands	The Future of EV Charging
Ion Boldea	University Politehnica of Timisoara, RO	Renewable energy (hydro and wind) large power systems: a revisit in 2019
Ali Emadi	McMaster University, Hamilton, Ontario, Canada	Motor and Power Electronics Updates, Challenges, and Opportunities
Masato Enokizono	Oita University, Japan	Materials for High Efficiency Motors
Norbert Hanigovszki	Danfoss A/S, Denmark	Developments and trends in the adjustable speed drive industry
Thomas M. Jahns,	University of Wisconsin- Madison, USA	TBD
Bülent Şarloglu,	University of Wisconsin-Madison, USA.	Automotive Power Electronics: Current Status and Future Trends”

REGISTRATION

	Early (until July 30 th)	Late (After 1 st August)
IEEE Members	425 €	475 €
Non-IEEE Members	470 €	525 €
<ul style="list-style-type: none"> • <i>IEEE members are required to present their membership card</i> 		
STUDENTS		
	Early (until July 30 th)	Late (After 1 st August)
IEEE Members	310 €	340 €
Non-IEEE Members	330 €	350 €
<ul style="list-style-type: none"> • <i>If you are registering as a student your student ID will be required</i> • <i>IEEE members are required to present their membership card</i> 		

Registration fee inclusive of:

Conference materials in a conference bag, Access to all scientific sessions, Welcome Cocktail, Lunches and Coffee breaks, Boat Trip, Gala Dinner