



IEEE ENERGY CONVERSION CONGRESS & EXPO

DETROIT, MICHIGAN | OCTOBER 11-15

IMPORTANT DATES

March 31, 2020

Proposal submissions deadline

May 1, 2020

Notification of session acceptance

Call for Special Sessions



General Chair

Yunwei (Ryan) Li

University of Alberta, Canada

Special Session Co-Chairs

Bulent Sarlioglu

University of Wisconsin-Madison, USA

Xiongfei Wang

Aalborg University, Denmark

The Twelfth Annual IEEE Energy Conversion Congress and Exposition (ECCE 2020) will be held in Detroit, Michigan, USA from October 11 to October 15, 2020. ECCE is a pivotal international event on energy conversion. ECCE 2020 will feature both industry-driven and application-oriented technical sessions, as well as industry expositions and seminars. The conference will bring together practicing engineers, researchers and other energy conversion professionals for interactive and multidisciplinary discussions on the latest advances in various areas related to energy conversion. ECCE has grown to become the foremost technical conference and exposition around electromagnetic and electromechanical energy conversion. The focus is on innovative solutions that are industrially oriented. People from a broad spectrum of the energy conversion industry and academia gather yearly at ECCE to interact in a convivial and innovative atmosphere, a perfect blend of state of the art, technical prowess and commercial opportunities in one attractive location.

The ECCE organizing committee invites organizers interested to organize **Special Sessions**. Such sessions consist of oral presentations only, without written papers, and are strongly oriented towards the latest industrial interests and new technology trends. The special sessions are gear towards encouraging the latest cross-pollination between the theoretical and the applied in order to encourage collaboration opportunities between industry and academia. Presentations may be of a more commercial nature than those related to the papers in the standard technical session, and the organization of the sessions are more malleable and could be in the form of panel discussions, debates, technical challenges, and contests. Audience participation and open source brainstorming session on topics of interest are not only welcomed but encouraged. Papers presented in special sessions are not subject to peer review and will not be made available in the conference proceedings. Presenters are encouraged to distribute their presentations through the conference mobile app.

Presentations are solicited on any subject pertaining to the scope of the conference described in its Call for Papers. As examples, the following aspects of growing interest and innovation are particularly encouraged for ECCE 2020, but serve only as suggestions for the special session organizers:

- ▶ Standard development for power electronics systems /products
- ▶ Electrification of transportation systems including Hybrid Electric Vehicles(HEV)/EV, aircrafts, drones, and ships
- ▶ Technologies and systems for large, cycle-efficient and cycle-intensive energy storage.
- ▶ Power electronic based grid infrastructure: technologies, trend, and grid integration
- ▶ Power Supply on Chip (PwrSoC) and related technology
- ▶ High Efficiency, flicker free LED light fixtures
- ▶ DC transmission, distribution and micro-grids: trend, requirement, and technologies
- ▶ Innovative materials for improved components and/or systems in electrical and electromechanical energy conversion
- ▶ Components and systems for electrical applications in the oil & gas and mining sectors.
- ▶ Reliability, diagnostics and prognostics of components and modular systems.
- ▶ Thermal management, advanced cooling technologies
- ▶ Advanced technologies for electric machines and power electronics such as materials, 3-D printing, magnets, magnetic devices, capacitors, switching devices

Proposal Submission Guidelines: Special Session organizers are requested to submit a maximum five-page proposal summarizing the proposed Special Session with 4 or 8 presentations. The proposal should contain the session title, session organizer, title of each presentation, presenter for each presentation (with a short biography) and a summary of each presentation. Please check ECCE 2020 website for proposal submission details.

www.ieee-ecce.org/2020

Detroit, Michigan, USA – October 11 – October 15, 2020