



IEEE ENERGY CONVERSION CONGRESS & EXPO

Vancouver, Canada  Oct. 10-14

IMPORTANT DATES

Call for Papers

January 15, 2021

Digest submission deadline

May 1, 2021

Author notification

June 30, 2021

Final papers with
IEEE copyright forms



General Chair

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Naval Postgraduate School, USA

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The Thirteenth Annual IEEE Energy Conversion Congress and Exposition (ECCE 2021) will be held in Vancouver, British Columbia, Canada, from October 10 to October 14, 2021. ECCE is a pivotal international event on energy conversion. ECCE 2021 will feature both industry-driven and application-oriented technical sessions as well as an exposition. The conference will bring together practicing engineers, researchers and other professionals for interactive and multidisciplinary discussions on the latest advances in areas related to energy conversion.

Technical papers are solicited on any subject pertaining to the scope of the conference including, but not limited to, the following major topics:

Energy Conversion Systems and Applications

- ▶ Renewable and alternative energy
- ▶ Smart grids, micro-grids, and utility applications
- ▶ Electrical energy storage
- ▶ Energy conversion for information technology and communication systems
- ▶ Energy harvesting
- ▶ Energy efficiency for residential, commercial, and industrial applications
- ▶ Big data and machine learning applications in energy conversion
- ▶ Wireless power transfer
- ▶ Lighting applications and displays
- ▶ Transportation electrification
- ▶ High power/voltage power conversion
- ▶ High voltage isolation and lightning strike protection
- ▶ Electric machines and drives for transportation electrification

Component, Converter and Subsystem Technologies

- ▶ Power electronic devices (silicon and wide bandgap) and applications
- ▶ Passive components and materials
- ▶ Power electronic packaging, integration, and advanced manufacturing
- ▶ Reliability, advanced fault protection systems, diagnostics, prognostics, and equipment health management
- ▶ Thermal management and advanced cooling technologies
- ▶ Electromagnetic interference and electromagnetic compatibility
- ▶ Power conversion topologies, modulation, and control
- ▶ Electrical drive systems and topologies and their control
- ▶ Modeling and control of components, converters, and systems
- ▶ Rotating/linear electro-mechanical devices

Digest Submission: Prospective authors are requested to submit a single column, single spaced digest no longer than five (5) pages summarizing the proposed paper. The digest should include key equations, figures, tables, and references as appropriate, but no author names or affiliations. **Digests not conforming to these requirements will be rejected without review.** The digests must clearly state the objectives of the work, its significance in advancing the state of the art, and the methods and specific results in sufficient detail. All digests will go through a double-blind peer review process to ensure a confidential and fair review. The papers presented at the conference will be included in the IEEE Xplore Digital Library. Please refer to the conference website for a detailed list of technical topics and the digest submission method.

www.ieee-ecce.org/2021

Vancouver, Canada – October 10 – October 14, 2021