

CALL for PAPERS



IEEE ENERGY CONVERSION CONGRESS & EXPO



VANCOUVER, BC, CANADA OCT. 4-8

The Eighteenth Annual IEEE Energy Conversion Congress and Exposition (ECCE 2026) will be held in Vancouver, Canada, from October 4th to October 8th, 2026. ECCE is a pivotal international event on energy conversion. ECCE 2026 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:

Component, Converter and Subsystem Technologies

- Passive components and innovative alternative materials
- Power conversion topologies, modulation, and control
- Power electronic devices, gate drivers, and integrated circuits
- Power electronic packaging integration
- Reliability, advanced diagnostics, prognostics, and health management
- Rotating/linear electric machines
- Thermal management and advanced cooling technologies
- Electromagnetic interference and electromagnetic compatibility
- Cyber-physical security for power electronics systems
- Digital twins, cloud design, and simulation techniques for energy conversion systems

Digest Submission:

Prospective authors are requested to submit a single column digest, according to the provided template, no longer than five (5) pages (including references) 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 detailed instructions regarding the digest submission and any future changes to the important dates.

IMPORTANT DATES

FEBRUARY
27
Digest Submission

MAY
22
Author Notification

JULY
10
Final Paper with IEEE Copyright Forms

2026

Energy Conversion Systems and Applications

- Renewable and alternative energy systems
- Critical power systems
- Energy storage systems
- Energy efficiency for commercial, industrial, and transportation applications
- Aerospace energy conversion systems
- Big data and artificial intelligence in energy conversion
- Electric vehicles and charging infrastructure
- Off-grid systems
- Energy conversion for information technology and communication systems
- Grid-forming technologies
- Wireless power transfer
- High power/voltage conversion systems (HVDC, FACTS, and multi-terminal systems)
- Industrial motor drives
- Medical, IoT, and energy harvesting
- Microgrids, hybrid grids, and active distribution networks
- Power electronics for agriculture
- Sustainability evaluation and sustainable recycling for power electronics

General Chair

Michael Harke
Collins Aerospace, United States

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Shanelle N. Foster
Michigan State University, United States

Technical Programs Co-Chairs

Navid Zargari
Rockwell Automation, Canada

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Pablo Garcia
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Behrooz Mirafzal
University of South Carolina, United States

Mahshid Amirabadi
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