



IEEE ENERGY CONVERSION CONGRESS & EXPO  Oct. 9-13

## IMPORTANT DATES

**January 15, 2022**

Digest submission

**May 1, 2022**

Author notification

**July 1, 2022**

Final papers with  
IEEE copyright forms

## Call for Papers



### General Chair

**Emmanuel Agamloh**  
Baylor University, USA

### ECCE 2022 Technical Program Co-Chairs

**Navid R. Zargari**  
Rockwell Automation, Canada

**Annette Muetze**  
Graz University of Technology,  
Austria

**Andrea Cavagnino**  
Politecnico di Torino, Italy

**Mohammad Islam**  
Halla Mechatronics, USA

**Gerry Moschopoulos**  
University of Western Ontario,  
Canada

**Brandon Grainger**  
University of Pittsburgh, USA

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The Fourteenth Annual IEEE Energy Conversion Congress and Exposition (ECCE 2022) will be held in Detroit, Michigan, USA, from October 9 to October 13, 2022. ECCE is a pivotal international event on energy conversion. ECCE 2022 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 & Applications

- ▶ High power/voltage power conversion
- ▶ High voltage isolation techniques
- ▶ Energy harvesting
- ▶ Energy conversion for information technology and communication systems
- ▶ Energy efficiency for residential, commercial, and industrial applications
- ▶ Big data and artificial intelligence in energy conversion
- ▶ Renewable and alternative energy power electronic systems
- ▶ Smart grids, microgrids, and utility applications (HVDC, FACTS, and Solid State Transformers)
- ▶ Electrical energy storage
- ▶ Wireless power transfer

### Component, Converter & Subsystem Technologies

- ▶ Power electronic devices (silicon and wide bandgap) and applications
- ▶ Passive components and materials
- ▶ Power electronic packaging integration
- ▶ Reliability, advanced fault protection systems, diagnostics, prognostics, and 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
- ▶ Rotating/linear electromechanical devices
- ▶ Enabling technologies for Industry 4.0: advanced manufacturing, additive manufacturing, digital twins, cloud design, big data analytics

**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/2022](http://www.ieee-ecce.org/2022)

Detroit, Michigan, USA – October 9–13, 2022