



IEEE ENERGY CONVERSION CONGRESS & EXPO

DETROIT, MICHIGAN | OCTOBER 11-15

IMPORTANT DATES

February 17, 2020

Submission of completed Tutorial Proposal Form

March 27, 2020

Notification of acceptance

June 30, 2020

Full Tutorial materials due

Call for Tutorials



General Chair

Yunwei (Ryan) Li

University of Alberta, Canada

Tutorial Co-Chairs

Xinbo Ruan

Nanjing University of Aeronautics and Astronautics, China

Ali Khajehoddin

University of Alberta, Canada

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. The conference will bring together practicing engineers, researchers and other professionals for interactive discussions on the latest advances in areas related to energy conversion. ECCE has grown to become the foremost technical conference and exposition for people looking for energy conversion solutions that are timely, practical, customer focused, market sensitive, and cost effective. Engineers from throughout the energy conversion industry's broad spectrum come to ECCE specifically to take advantage of the concentrated brain trust assembled annually in one very special location to do business in a convivial and innovative atmosphere, a perfect blend of state of the art technical prowess and commercial opportunities under one roof.

The ECCE organizing committee invites proposals for half-day tutorials to be presented at ECCE 2020. The organizing committee is particularly interested in tutorials that are of value to the practicing engineer, with an emphasis on solutions to practical problems. Tutorials are solicited on any subject pertaining to the scope of the conference that includes, but is not limited to, the major topics listed below.

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

Component, Converter and Subsystem Technologies

- ▶ Power electronic devices (Si and wide band-gap) and applications
- ▶ Power conversion topologies, modulation, and control
- ▶ Modeling and control of components, converters and systems
- ▶ Rotating/linear electro-mechanical devices and drives systems
- ▶ Passive components, magnetics and materials
- ▶ Power electronic packaging, integration, and advanced manufacturing
- ▶ Power supply on chip and power supply in package
- ▶ Reliability, diagnostics, prognostics, and health management
- ▶ EMI and EMC
- ▶ Thermal management, advanced cooling technologies

Tutorials accepted for presentation will receive one conference registration together with an honorarium for \$1000. Note that publication of a technical paper at the conference will still require a full paid registration.

Tutorial Proposal Submission Guidelines: Tutorial proposals should be submitted as a digest summarizing the content of the tutorial. Please follow the attached tutorial proposal form as the tutorial submission guideline. Please check ECCE 2020 website for proposal submission details.

www.ieee-ecce.org/2020

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

1. Title of Tutorial

2. Abstract

(No more than 500 words. If the tutorial is accepted, this abstract will be published on the conference website, program, and proceedings)

3. Outline of Tutorial

(Outline would only define the topics and the subtopics that would be covered. No detailed descriptions should be included in the proposal)

4. Lead Instructor

(Name, affiliation, and contact information)

Name	Affiliation
Email	Phone

5. Other Instructor(s) if applicable

(Name, affiliation, and contact information)

Name	Affiliation
Email	Phone

6. Instructor Bios: ~ 150 Words

(Please provide a brief biography for each instructor, describing the qualifications for presenting the proposed tutorial, including the work and publications that are most relevant to the proposal)
