



# ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY

Chicago | Illinois, November 3-6, 2024



## Call for Tutorial Sessions

### IMPORTANT DATES:

Tutorial Proposals Submission opens:

**November 1, 2023**

Tutorial Proposals Submission due: **April 15, 2024**

Acceptance Notification: **May 15, 2024**

**Early submissions are encouraged for earlier acceptance notification!**



**IECON 2024** is the 50th Annual Conference of the IEEE Industrial Electronics Society (IES), focusing on contemporary industry topics ranging from power electronics, power systems, controls, manufacturing, to computational intelligence and communications. IECON is the flagship annual conference of IES. It aims to create a forum for scientists and practicing engineers throughout the world to present the latest research findings and ideas in the areas of Industrial Electronics, and possible contributions toward sustainable development and environment preservation. The objectives of the conference are to provide high quality research and professional interactions for the advancement of science, technology, and fellowship. Papers with new research results are encouraged for submission. **Join us to celebrate the 50th anniversary of IECON!**

**Tutorial Sessions:** The tutorial sessions provide an informative and dedicated training sessions for esteemed professionals. During these sessions well-known experts from academia and industry will introduce fundamentals and state-of-the-art on emerging areas in industrial electronics. Several industry partners will also provide hands-on tutorial sessions demonstrating their products and how they can be leveraged by attendees in professional as well as in research. The organizing committee of IECON 2024 is opening the floor for tutorial proposal submissions which provides a unique opportunity for esteemed professionals in various fields to share their expertise while the attendees explore new trends and learn new techniques from experts in their related fields. Each tutorial session will be 3 hours long without considering breaks. Each accepted tutorial will receive one free conference registration along with an honorarium of \$1000 in total. Authors are encouraged to follow the provided template.

**Proposal Content:** The tutorial session's proposal should include the following information (as mentioned in the MS word template):

1. Subject of the tutorial.
2. Name, institutions, and email of chair and co-chair of the tutorial.
3. A brief description (no more than 600 words).
4. Define the topics/sub-topics.
5. Explain the importance and relevance of this tutorial to IES and specify contribution and learning outcomes in less than 600 words.
6. Provide short bios with names, photo, email and affiliation of the presenters.
7. Provide maximum of 10 publication relevant to the topic of the proposal published by the organizers.

### General Chairs:

**Mohammad Shadmand**

*University of Illinois Chicago, USA*

**Haitham Abu-Rub**

*Texas A&M University at Qatar*

**Mariusz Malinowski**

*Warsaw University of Tech., Poland*

**Milos Manic**

*Virginia Commonwealth University, USA*

**Kamal Al-Haddad**

*École De Technologie Supérieure, Canada*

### Tutorial Chairs:

**Yousef Ibrahim**

*Federation University Australia, Australia*

**Afshin Izadian**

*Indiana University Purdue University, USA*

**Hasan Komurcugil**

*Eastern Mediterranean University, Turkey*

**Huazhen Fang**

*University of Kansas, USA*





## Organization of Tutorial Sessions:

Once approved, the Tutorial Session organizer will publicize the tutorial among researchers and practitioners in the field to attract sufficient number of attendees. The organizing committee will also engage with publicizing the lectures through the website and its social media. The minimal lecture time slot to be organized is three hours. It is possible to request multiple time slots, if necessary, especially for hands on sessions. The local organization committee will provide the rooms and the required multimedia settings for the lectures. Since the tutorials will be organized as a full day event, coffee breaks will be foreseen for the attendees and the lecturers. If hands on sessions require the use of a laptop, the lecturers should clearly communicate this such that the attendees can be informed and requested to bring along an adequate laptop.

### Potential topics include but not limited to the following:

**Energy:** Power Systems and the Smart Grid, Renewable Energy Systems, Power Electronics & Energy Conversion, Grid Resiliency, Electrical Machines and Drives, Electric Energy Storage Systems, Resilient Control for Energy Systems, and Transportation Electrification.

**Control and Robotics:** Control Systems, Motion Control, Robotics and Mechatronics, Instrumentation, Sensors, Actuators, Systems Integration and Nanotechnologies, Signal and Image Processing and Computational Intelligence.

**Information and Communication Technologies (ICT) and interdisciplinary areas:** Electronics Systems on Chip and Embedded Systems, Intelligent factory automation, ICT and AI enabling smart cities, buildings, Energy efficiency and sustainability, ICT enablers of autonomy and smart transport: Transport electrification, Smart Grids, Renewable, Human-centric ICT: Medicine, Assistive Robotics, Industrial Cyber-physical Systems, Deep Learning & Machine learning applications, Microgrid Cybersecurity.

### Proposal Submission:

Please send your tutorial session proposals in PDF format on the e-mail address [tutorial@iecon-2024.org](mailto:tutorial@iecon-2024.org). Proposals will be accepted from November 1, 2023 until April 15, 2024. We encourage early proposal submissions to receive early decisions.

