



# IECON 2022 Conference

The 48th Annual Conference of the IEEE Industrial Electronics Society

17 – 20 October 2022

Brussels – Square Congress Center

<https://iecon2022.org>

## CALL FOR PAPERS



**IECON 2022** is the 48th Annual Conference of the IEEE Industrial Electronics Society (IES), focusing on applications, manufacturing and theoretical concepts of advanced Industrial Electronic Systems. The conference has a wide scope and brings together, scientists, practitioners, industrials and inventors that apply Electronic concepts within an Industrial context. 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. The conference hosts regular sessions, interactive sessions, special sessions, tutorials and multiple forums.

As the world starts to understand how to cope with the COVID-19 pandemic and how to organize large events in a safe and secure way, we are preparing this conference to be a physical conference where we can safely meet and discuss the latest results in our research fields. The venue for this conference is the SQUARE congress center in Brussels at the historical heart of Europe.

### Regular Sessions:

The scope of the conference will cover, but will not be limited to, the following topics:

**Energy:** New Technologies for Electric Transportation; Electric Energy Storage Systems; Power Systems and the Smart Grid; Renewable Energy Systems and Smart Grid; Electrical Machines and Drives; Power Electronics & Energy Conversion.

**Sensors and Control:** Control Systems; Motion Control; Robotics and Mechatronics; Instrumentation; Sensors; Actuators; Systems Integration and Nanotechnologies; Fault Diagnosis/Prognosis & Fault Tolerant Control; Signal and Image Processing and Computational Intelligence.

**ICT and Interdisciplinary:** Intelligent factory automation; ICT and AI enabling smart cities, buildings, agriculture, energy efficiency and sustainability; ICT enablers of autonomy and smart transport; Human centric ICT: Medicine, Assistive Robotics, Security and Ethics.



### Important Dates:

- Special session proposals: **28 February 2022**
- Full Paper submission: **15 April 2022**
- Acceptance Notification: **17 June 2022**
- Final Submission & Registration: **29 July 2022**

### Special Sessions:

The conference will include Special Sessions on highly specialized topic areas reporting technical trends and breakthroughs within the scope of the conference.

### Tutorials:

Informative tutorials will be organized by well-known experts to introduce fundamentals and the state of the art in emerging industrial electronics fields.

### Industry Forum:

The Industry Forum focuses on industry directions and use of industrial electronics technologies in processes and products.

The world's industry and academia are cordially invited to participate in a wealth of presentations, tutorials, special sessions, and exhibits, and enjoy the wonderful city of Brussels. Its vibrant night life, many art galleries, historical city center and great restaurants will make it an unforgettable experience.

### Paper Submissions:

Prospective authors are invited to electronically submit full papers in English, 6 pages, 4500 words, in pdf format following instructions accessible via <https://iecon2022.org>. Accepted and presented papers will be submitted for inclusion in the IEEE Xplore online digital library and will be indexed by the major indexing services. High quality papers may be invited to submit extended versions to IEEE TII and IEEE TIE.

### Honorary Chairs

Juan Jose Rodriguez (SP)  
Malinowski Mariusz (PL)

### General Chairs

Abdellah Touhafi (BE)  
Peter Palensky (NL)

### Finance Chairs

An Braeken (BE)  
Sierla Seppo (FI)

### Technical Program Chairs

Gopakumar Kumarkutti (IN)  
Huijun Gao (CN)  
Omar Hegazy (BE)  
Paulo Leitao (PT)  
Qing-Long Han (AU)

### Special Session Chairs

Roberto Oboe (IT)  
Valeryi Vyatkin (FI)

### Publication Chairs

Thilo Sauter (AT)  
Bruno Da Silva (BE)

### Industry and Exhibition

Stamatis Karnouskos (DE)  
Thierry Cooseman (BE)

### Tutorial Chairs

Yousef Ibrahim (AU)  
Makoto Iwasaki (JP)

### Local Arrangements Chairs

Belgin Topkaya (BE)  
Jan Lemeire (BE)  
Maarten Weyn (BE)  
Mohamed El Baghdadi (BE)  
Nele Mentens (BE)