

(Preliminary) Call for Papers

IECON 2018 is the 44th Annual Conference of the IEEE Industrial Electronics Society (IES), focusing on industrial and manufacturing theory and applications of electronics, controls, communications, instrumentation, and computational intelligence.

The objectives of the conference are to provide high quality research and professional interactions for the advancement of science, technology and fellowship. The main features of the conference include Plenary Speeches, Invited Talks, Regular Sessions, Special Sessions, Tutorials, Industry Forum, Student & Young Professionals Forum.

The world's industry, researchers and academia are cordially invited to participate in a wealth of presentations, tutorials, special sessions, and exhibits, and enjoy the capital city of U.S.



Important Due Dates

Special Session Proposals:
February 15, 2018

Tutorial Proposals:
May 1, 2018

Final Paper Submission:
August 1, 2018

Contributed Papers:
April 1, 2018

Notification of Acceptance:
June 15, 2018

Early Registration:
August 15, 2018



Honorary Chairs

Bogdan Wilamowski, USA
David Irwin, USA
Leopoldo Franquelo, Spain
Kouhei Ohnishi, Japan

General Chairs

Milos Manic, USA
Kamal Al-Haddad, Canada
Mo-Yuen Chow, USA

Program Chairs

Luis Gomes, Portugal
Juan Rodriguez-Andina, Spain
Mariusz Malinowski, Poland
Qing-Chang Zhong, USA
Emil Levi, UK
Zhihong Man, Australia

SS Chairs:

Kim Man, Hong Kong
Antonio Luque, Spain
Maria Valla, Argentina
Haitham Abu-Rub, Qatar

Treasurer

Allen Chen, USA

Publication Chair:

Andres Nogueiras, Spain

Patronage opportunities

Marc Perron, Canada

International Advisory Board

Ren Luo, Taiwan (Chair)
Aldo Bogiletti, Italy
Gerard-Andre Capolino, France
Carlo Cecati, Italy
Huijin Gao, China
K. Gopakumar, India
Gerhard Hancke, South Africa
Hiromasa Haneda, USA
Hideki Hashimoto, Japan
John Hung, USA
Okyay Kaynak, Turkey
Marco Liserre, Germany
Ren Luo, Taipei
Bhim Singh, India
Xinghou Yu, Australia



Regular Sessions

The technical topics for the regular sessions include, but are not limited to the topics under the following three major themes:

I. ENERGY

- **Power Systems and Smart Grids**

Ramon Blasco-Gimenez (Spain), Peter Palensky (Netherlands), Josep Pou (Singapore), Hao Ma (China),

- **Electrical Machines and Industrial Drives**

Leila Parsa (USA), Aldo Boglietti (Italy), Andrea Cavagnino (Italy), Chris Gerada (UK), Herb Hess (USA)

- **Power Electronics Converters**

José Ignacio León Galván (Spain), Yen-Shin Lai (Taiwan), Marcos Alonso (Spain), Miguel Aguirre (Argentina), Brian Johnson (USA)

- **Renewable Energy and Energy Storage Systems**

Federico Baronti (Italy), Chengbin Ma (China), Nihal Kularatna (New Zealand), Ali Sari (France), Koh Leong Hai (Singapore).

- **Transportation Electrification and Automotive Technologies**

Ritesh Keshri (India), Akshay Rathore (Canada),

II. CONTROL, MECHATRONICS, ROBOTICS

- **Control Systems and Applications**

Kanghyun Jo (Korea), Makoto Iwasaki (Japan),

- **Mechatronics and Robotics**

Peter Korondi (Hungary), Roberto Oboe (Italy), Yasuharu Kunii (Japan)

- **Computational Intelligence & Signal and image processing**

Shen Yin (China), Joel Trussell (USA)

- **Sensors, Actuators and Micro-Nanotechnology**

Stoyan Nihtianov (Netherlands), Ridha Ben Mrad (Canada), Yasutaka Fujimoto (Japan), Toshiyaki Tsuji (Japan)

III. INFORMATION AND COMMUNICATION TECHNOLOGIES

- **Electronic systems on chip and embedded systems**

Eric Monmasson (France), Marc Perron (Canada), Ray Cheung (Hong Kong)

- **Cyber Physical Systems and internet of Things in Industry**

Yang Shi (Canada), Paulo Leitao (Portugal), Stamatis Karnouskos (Germany), Armando W. Colombo (Germany)

- **Communications for industrial and factory automation**

Thilo Sauter (Austria), Lucia Lo Bello (Italy), Thomas Strasser (Austria)

- **Industrial Electronics And Education**

Seta Bogosyan (USA), Óscar Lucía (Spain), Andreja Rojko (Slovenia), Ahmad Ibrahim (Canada)

- **Cloud computing, big data, industrial informatics**

Kim Fung Tsang (Hong Kong), Valeriy Vyatkin (Finland), Ligang Wu (China)

Special Sessions

The conference will include Special Sessions on highly specialized topic areas reporting technical trends and breakthroughs within the scope of the conference. Special Sessions are organized at the initiative of one or more individuals, who must adhere to specific procedures published on the conference website.

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. It also motivates discussion with applications into emerging areas in select areas. For more information, please visit the conference website.

Student & Young Professionals Forum

The forum offers activities and opportunities for engineering students and recent graduates (young professionals) to present their R&D work in Industrial Electronics, and to help them develop networking connections.

Paper Submissions

Prospective authors are invited to electronically submit full papers in English, 6 pages, in pdf format following instructions accessible via <http://www.iecon2018.org>. Accepted and presented papers will be submitted for inclusion in the IEEE Xplore online digital library and EI Compendex database. In addition, authors of selected papers may be called upon to resubmit extended versions of their papers for consideration of publication in the IEEE Transactions on Industrial Electronics and IEEE Transactions on Industrial Informatics

For additional information please visit www.iecon2018.org

