



# The 43rd Annual Conference of the IEEE Industrial Electronics Society



October 29 – November 1, 2017  
China National Convention Centre, Beijing, China  
[www.iecon2017.com](http://www.iecon2017.com)



## Call for Papers

IECON 2017 is the 43rd 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 wonderful city of Beijing – the heart of China, for its beauty, history and hospitality.



Important dates	
<b>Special Session Proposals</b>	<b>Contributed Papers</b>
15 February 2017	17 April 2017
<b>Tutorial Proposals</b>	<b>Notification of Acceptance</b>
15 May 2017	3 July 2017
<b>Final Submission Due</b>	<b>Early Registration Closes</b>
15 August 2017	15 August 2017



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- Terry Martin, *USA*
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## 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

Co-Chairs: Concettina Buccella (Italy), Ramon Blasco-Gimenez (Spain), Yang Tang (China)

#### Power Electronics

Co-Chairs: Xinbo Ruan (China), José ignacio León Galván (Spain), Maria I. Valla (Argentina), Haitham Abu-Rub (USA), Herbert Hess (USA), Chandan Chakraborty (India)

#### Electrical Machines & Drives

Co-Chairs: Leila Parsa (USA), Andrea Cavagnino (Italy), Tian-Hua Liu (Taiwan), Jimin Chen (China)

#### Transportation Electrification

Co-Chairs: Abhijit Choudhry (Singapore), Dongpu Cao (UK), Ritesh Keshri (India), Sheldon Williamson (Canada), Wei Xu (China)

#### Renewable Energy

Co-Chairs: Giovanni Spagnuolo (Italy), Josep M. Guerrero (Spain), Marcelo Simoes (USA), Wolfgang Hribernik (Austria)

#### Energy Storage Systems

Co-Chairs: Chengbin Ma (China), Federico Baronti (Italy), Nian Liu (China)

### II. CONTROL, MECHATRONICS AND ROBOTICS

#### Mechatronics & Robotics

Co-Chairs: Peter Korondi (Hungary), Toshiyuki Tsuji (Japan), Lixian Zhang (China)

#### Control Theory & Applications

Co-Chairs: Elena De Santis (Italy), Hiroshi Fujimoto (Japan), Bijnan Bandyopadhyay (India), Kanghyun Jo (Korea), Shihua Li (China)

#### Fault Diagnosis/Prognosis & Fault Tolerant Control

Co-Chairs: Hamid Reza Karimi (Norway), Jiahu Qin (China), Makoto Iwasaki (Japan), Zhiwei Gao (UK)

#### Signal Processing & Artificial Intelligence

Co-Chairs: Xuebo Yang (China), Gerasimos Rigatos (Greece), Seta Bogosyan (USA), Rainer Unland (Germany)

#### Micro/Nanotechnology

Co-Chairs: Aleksander Malinowski (USA), Stoyan Nihtianov (Netherlands), Antonio Luque (Spain)

### III. INFORMATION AND COMMUNICATION TECHNOLOGIES

#### Communications for Industrial & Factory Automation

Co-Chairs: Thilo Sauter (Austria), Lucia Lo Bello (Italy), Yang Shi (Canada)

#### Cloud Computing, Big Data & Industrial Informatics

Co-Chairs: Paulo Leitao (Portugal), Kim Fung Tsang (Hong Kong), Wenwu Yu (China), Valeriy Vyatkin (Finland)

#### Embedded Systems & Chips

Co-Chairs: Eric Monmasson (France), Marc Perron (Canada), Hiroaki Nishi (Japan), Ray Cheung (Hong Kong)

#### Industrial Electronics and Education

Co-Chairs: Andreja Rojko (Slovenia), Jan Haase (Germany), Joao Martins (Portugal), Yen-Shin Lai (Taiwan)

## 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, no more than 6 pages, in IEEE two-column format following instructions on IECON 2017 website. Accepted and presented papers will be considered 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 or consideration of publication in the IEEE Transactions on Industrial Electronics and IEEE Transactions on Industrial Informatics.