

The 27th IEEE International Symposium on Industrial Electronics 12–15 June 2018, Cairns, Australia



Full papers are requested to be submitted for peer review.
The topics of this conference will include, but are not limited to:



Honorary Chairs

Ren Luo (Taiwan)
Kouhei Ohnishi (Japan)
Kamal Al-Haddad (Canada)

General Chair

Qing-Long Han (Australia)

General Co-Chairs

Xinghuo Yu (Australia)
Mohan Jacob (Australia)

Program Chair

Yousef Ibrahim (Australia)

Technical Program Co-Chairs

Eric Monmasson (France)
Antonio Luque (Spain)
Huijun Gao (China)

Special Sessions Chairs

Mo-Yuen Chow (USA)
Yang Shi (Canada)
Maria Valla (Argentina)
Marcian Cirstea (UK)
Hadi Kanaan (Lebanon)

Student & Young

Professionals (S&YP) Forum Co-Chairs:

Marek Jasinski (Norway)
Samir Kouro (Chile)
Dimitri Vinnikov (Estonia)

Important Dates:

Special Session

Proposals: **15 Oct 2017**

Full Paper Submission

Deadline: **15 Dec 2017**

Acceptance Notification:

01 Mar 2018

Final Submission of full

manuscript: **01 Apr 2018**

Early Bird Registration:

15 Mar 2018

Conference website:

www.ieee-isie2018.org

Technical Co-Sponsors:

IEEE Northern Australia Section
IEEE OES, Australia



Technical Tracks

Power Systems and Smart Grids

Power Systems, Transmission, Power Quality, Utility Applications, Smart Grids
Pierluigi Siano (Italy), Stanimir Valtchev (Portugal), Tapan Saha (Australia), Peter Palensky (Netherlands)

Electrical Machines and Industrial Drives

AC/DC Motor Drives, Electrical Machines Design/Modelling, Thermal/Vibrations Issues
Franck Betin (France), Andrea Cavagnino (Italy), Leila Parsa (USA)

Control Systems and Applications

Control Systems, Sensor-less and Predictive Control, Data Driven control and Monitoring
Huijun Gao (China), Xinkai Chen (Japan), Yang Shi (Canada), Zhenwei Cao (Australia), Yu-Long Wang (China)

Power Electronics and Energy Conversion

Power Electronics Modelling, Simulation, Design, Control, DC/DC Conversion, AC/AC Converters, Rectifiers, Inverters, PWM Systems
Seddik Bacha (France), Chandan Chakraborty (India), Dong Yue (China), Haitham Abu-Rub (Qatar)

Renewable Electric Energy Conversion, Processing and Storage

Wind Energy, Photovoltaics, Hydro-Power, Energy Storage and Battery Technologies, Fuel Cells,
Carlo Cecati (Italy), Fuwen Yang (Australia), Minrui Fei (China)

Mechatronics and Robotics

Mechatronics, Robotics, Human-Machine Interface Technology, Control of Linear and Non-linear Systems, Adaptive, Robust and Variable Structure Control
Kiyoshi Ohishi (Japan), Peter Korondi (Hungary), Toshiyuki Murakami (Japan), Kang-Hyun Jo (South Korea)

Distributed and Networked Control Systems

Xian-Ming Zhang (Australia), Shen Yin (China), Chen Peng (China), Baolin Zhang (China)

Industrial Informatics and Cloud Computing

Kim Fung Tsang (Hong Kong), Paulo Leitao (Portugal), Thomas Strasser (Austria), Eric Monmasson (France)

Factory Automation, Cyber-Physical Systems and Internet of Things (IoT)

Remote Sensing, Process Automation, Flexible Manufacturing Systems, Industrial Agents, Factory Automation, Safety and Reliability, Internet of Things
Thilo Sauter (Austria), Armando Walter Colombo (Germany), Lucia Lo Bello (Italy), Gour karmakar (Australia), Wei Xiang (Australia)

Signal Processing and Artificial Intelligence

Computer vision, virtual reality systems, industrial vision, virtual instrumentation, image & sound processing, digital signal processing, remote sensing, multimedia applications, artificial neural networks, fuzzy logic, genetic algorithms, industrial applications.

Kang-Hyun Jo (South Korea), Shyh Wei Teng (Australia), Xiaohua Ge (Australia), Yu-Chu Tian (Australia), Wangli He (China)

Sensors, Actuators Micro-/Nanotechnology and Graphene

Sensors, Signal/ Audio / Video Applications, Networking Applications, Communication Systems, Measurements & Data Acquisition, Nanoelectronics, MEMs, Graphene Devices

Yasutaka Fujimoto (Japan), Antonio Luque (Spain), Aleksander Malinowski (USA)

Automotive Technology

Electric Propulsion, Automotive Applications, Electric and Hybrid Electric Vehicles.

Jan Haase (Austria), Victor Huang (USA), Joem Ploennigs (Ireland)

Systems Reliability, Conditions Monitoring and Fault Diagnosis

System's Reliability testing and Risk Analysis, Fault Diagnostic and Recovery, FMECA, FTA,

Makoto Iwasaki (Japan), Steve Wilcox (Australia)

Engineering Education

Educational Tools, Continuous Learning, Educational Materials and Methods, Distance Learning, Information and Communication Technologies in Laboratories, University-Industry Collaboration

Andreja Rojko (Germany), Yen-Shin Lai (Taiwan), Oscar Lucia (Spain)

Marine Electronics

Mal Heron (Australia), Melanie Olsen (Australia), Kevin Sharp (USA)

The ISIE conference will include Special Sessions on highly specialised topics, within the scope of the conference theme. Contact a Special Session's Co-Chair to organise a Special Session.