

# 2019 1<sup>st</sup> International Symposium on Instrumentation, Control, Artificial Intelligence, and Robotics

<http://sites.ieee.org/thailand-css/ica-symp-2019>



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## Call for Papers

ICA-SYMP 2019 (IEEE Conference Record Number #45470) is the first annual international symposium organized by Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI) Association, and co-organized by Artificial Intelligence Association of Thailand (AIAT) and Thailand Robotics Society (TRS). The conference aims to provide an international platform to present technological advances, launch new ideas and showcase research work in the field of instrumentation, robotics, automation, control, and artificial intelligence.

### **Area 1: Instrumentation**

*Chair: Natee Thong-Un, KMUTNB*

- Hydraulic and pneumatic systems, MEMS and nano technologies, sensors and measurements

### **Area 2: Artificial Intelligence**

*Chair: Kitsuchart Pasupa, KMITL*

- Intelligent systems, neural networks, machine learning, pattern recognition, machine vision

### **Area 3: Robotics**

*Chair: Thawida Maneewarn, KMUTT*

- Mobile robotics, unmanned vehicles, visual servoing, robotics manipulation, medical and bio-robotics

### **Area 4: Automation**

*Chair: Amphawan Julsereewong, KMITL*

- Intelligent manufacturing systems, system integration, functional safety, networked control systems

### **Area 5: Control Theory**

*Chair: Tanagorn Jennawasin, KMUTT*

- Linear control theory, nonlinear control theory, optimal control, robust control, model predictive control, hybrid control

### **Area 6: Control of Power Electronics**

*Chair: Suratsavadee K Korkua, WU*

- Control of PWM converters, modeling of power semiconductors

### **Area 7: Control of Power and Energy Systems**

*Chair: Issarachai Ngamroo, KMITL*

- Smart grids, micro grids, energy management systems, power systems stability, renewable energy control

### **Area 8: Control Applications**

*Chair: Itthisek Nilkhamhang, SIIT*

- Systems biology, traffic control, spacecraft and aircraft control, health and care, others

## **Important Dates**

Deadline for submission of full papers

August 3, 2018

Notification of acceptance

October 19, 2018

Deadline for Submission of final manuscript

November 16, 2018

Deadline for early-bird registration

November 16, 2018

Symposium schedule

January 16-18, 2019

## **Paper submission**

1) Authors are invited to submit original full papers **in English**. We accept two types of paper.

**Regular papers:** Papers 4 pages in standard IEEE two-column format only, reporting their original work and results, applications, and/or implementation in one or more of the listed areas. Accepted regular papers will be published in the proceedings and will be submitted for inclusion in the IEEE Xplore. Digital Library. Acceptance will be based on quality, relevance and originality.

**Position papers:** Extended abstracts 2-4 pages in conference format. It is provided for authors who want to present a timely review of research such as case study. Accepted position paper will be published in the proceedings but will NOT be included in the IEEE Xplore Digital Library

2) Papers must be submitted only through the submission system of the conference website.

3) At least one author of each accepted paper **MUST** register and present the paper at the conference in order that the paper is to be included in the program.

## **ASEAN Student Travel Grant Award (A-STGA)**

This grant award aims to encourage students' contribution from ASEAN nations and to support their accommodations during ICA-SYMP 2019. A-STGA candidate should be an undergraduate/graduate student (at the time of the application) outside Thailand in ASEAN that attends and presents his/her paper at ICA-SYMP 2019.

For more information about the conference, please contact us by email at [ica.symp2019@gmail.com](mailto:ica.symp2019@gmail.com)