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Call for Papers

ICA-SYMP 2027 is the 5th international symposium organized by the Electrical Engineering/Electronics, Computer, Telecommunications, and Information Technology (ECTI) Association and the IEEE Control Systems Society (CSS) Thailand Chapter. The symposium is technically co-sponsored by leading organizations, including the IEEE Thailand Section. This conference serves as an international platform dedicated to presenting technological advances, launching innovative ideas, and showcasing cutting-edge research in the fields of Instrumentation, Robotics, Automation, Control, and Artificial Intelligence (AI).

Area 1: Instrument, Automation, and Control Applications

Chairs: Witchuda Thongking (KMUTT),
Napasool Wongvanich (KMITL)

- Hydraulic and pneumatic systems, MEMS and nanotechnologies, sensors, intelligent manufacturing systems, system integration, functional safety, networked systems, systems biology, traffic control, spacecraft and aircraft control, healthcare applications.

Area 2: AI, Image Processing, and Computer Vision

Chair: Somying Thainimit (KU),
Wittaya Koodtalang, (KMUTNB)

- Intelligent systems, neural networks, machine learning, and pattern recognition.

Area 3: Robotics and Autonomous Vehicles

Chair: Benjamas Panomruttanarug (KMUTT),
Chakkapong Chamroon (CMU)

- Mobile robotics, unmanned vehicles, robotics manipulation, and medical and bio-robotics.

Area 4: Control Theory

Chair: Tadchanon Chuman (SSRU),
Tanagorn Jennawasin (KMUTT)

- Linear and nonlinear control theory, optimal control, robust control, model predictive control, and hybrid control systems.

Area 5: IoT and Cyber-Physical Systems

Chair: Suwilai Phumpho (KMITL),
Suwit Kiravittaya (CU)

- Data analytics for IoT, embedded systems, Industrial IoT (IIoT), CPS applications, energy management and harvesting for IoT platforms.

Area 6: Control of Power and Energy Management Systems

Chair: Sanchai Dechanupaprittha (KU),
Chakrit panpean, (KMUTNB)

- Smart grids, microgrids, energy management systems, power systems stability, and renewable energy control.

Area 7: Artificial Intelligence Applications for Sustainability

Chairs: Natt Leelawat (CU),
Takumi Ohashi (ISCT)

- AI for climate and resilience, early warning systems, earth and society, environmental monitoring, forecasting, green intelligence, and smart cities.

Important Dates

1st Batch: Deadline for submission of full papers	July 31, 2026
Notification of acceptance	August 31, 2026
2nd Batch: Deadline for submission of full papers	September 19, 2026
Notification of acceptance	October 19, 2026
Deadline for Submission of final manuscript	November 20, 2026
Deadline for early-bird registration	November 20, 2026
Symposium schedule	January 20-22, 2027

Paper submission

- 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 wishing 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.
- Papers must be submitted only through the submission system of the conference website.
- 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.

For more information about the conference, please contact us by email at ica_symp2027@gmail.com

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