





2020

September 15-18,2020 The Empress Chiang Mai Hotel

Chiang Mai, Thailand

The Society of Instrument and Control Engineers (SICE) Annual Conterence 2020

SICE 2020

The SICE Annual Conrerence 2020 (SICE 2020), orgainzed by the Society of Instrument and Control Engineer (SICE) and the Electrical Engineering / Electronics, Computer, Telecommunications and Information Technology (ECTI) Association, will be held in september 15 - 18, 2020, in Chinag Mai, Thailand. The SICE Annual Conference 2020 is an interantional conference covering a broad range of fields from control theory and applications, mechatronics, industrial automation, transportation and communication, biological and medical systems, Articicial intelligence, cyber-physical systems, smart grids, educational and social contributions. The technical program of SICE 2020 will consist of plenary and invited talks, tutorial coures, and worhshops, as well as oral and interactive sessions.

Important Dates (Tentative)

Paper Submission Webpage Open Deadline for Paper Submission Notification of Paper Acceptance Submission of Final Camera-ready Papers Early Bird Registration January 1, 2020 March 15, 2020 June 1, 2020 July 1, 2020 July 1, 2020













Conferene Venue

SICE 2020 will be held at The Empress Hotel and Convention Center, located at the heart of the city of Chiang Mai, Thailand. Chiang Mai is a Northern Thai city known for its rich history, Lanna culture, and numerous tourist attractions of great historical and religious significance. In walking distance to the hotel lie the iconic Night Bazaar Market and the Old City.

MAIN TOPICS

Measurement Sensors and Transducers

Signal and/or Image Processing Identification and Estimation Opto-Electronic Measurement Remote Sensing Mass and Force Measurement Temperature Measurement Ultra-High Precision Measurement Analytical Measurement Standard of Measurement Flow Measurement Flow Measurement and Control Networked Sensor System

Control

Multivariable Control
Nonlinear Control
Robust Control
Adaptive and Optimal Control Intelligent
control
Computer Aided Design
Modeling, System Identification and
Estimation
Porcess Control
Mechanical Systems Control
Guidance and Flight Control
Power Systems Control

Systems and Information Industrial Applications

System Engineering
Human-Machine Systems
Intelligent Systems
Autonomous Decentralized Systems
Computational Intelligence
Discrete Event Systems
Social Systems
Hypercomputes
Molecular Robotics
Relationality-Oriented Systems Science
Smart Mobility Systems

Process Automation
Factory Automation
Laboratory Automation
Information Management Systems
SCADA and Network Systems
Manufacturing Systems
Transportation Systems
Micro and Nano Devices
Components and Devices

System Integration

Mechatronics Systems
Robotic and Automation Systems
Human Interfaces
Virtual Reality Systems
Entertainment Systems
Medical and Welfare Systems
Safety, Environment and Eco-Systems
Agricultural and Bio-Systems
Rescue Systems
Simulation of Large Systems
Network System Integration

Life Engineering

Integrative Biophysical Engineering and Informatics Biological and Physiological Enginneering Electrophysiology and Kinesiology Ubiqutous Healthcare

Others

Technical Co-Sponsors (Tentative)

IEEE Control Systems Society (CSS); IEE Robotics and Automation Society (RAS); IEE Industrial Engineering Society (IES); Institute of Control, Robotics and Systems (ICROS); International Society of Automation (ISA); Technical Committee on Conrol Theory (TCCT), Chinese Association of Automation (CAA); Janpan Electric Measuring Instruments Manufactures' Association (JEMIMA); Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI) Association

In Association with (Tentative)

Rajamangala University of Technology Lanna (RMUTL); Gunma University;

The Chinese Association of Automation (CAA); China Instrument and Control Society (CIS) Asian Control Association (ACA)

Organizers:

For more information:









Chiang Mai, Thailand 15 - 18 September 2020

Organized Sessions, Workshop and Tutorials

The goal of organized session is to provide focused discussions on a new topic or innovative applications of a new approach. Each session consists of 6 papers, which reviewed via the normal review process. Both regular and position papers can be included in a session. For session proposals, it is recommended to include a brief statement of the session focus, together with the submission of the individual papers. We also encourage proposals for workshops or tutorials that address technical topics with highly anticipated level of interest, impact, and creativity.

Committee

Advisory Committee Chair

SICE President

General Co-Chairs

Kou Yamada (Gunma U., Japan) Kosin Chamnongthai (KMUTT, Thailand)

Program Co-Chairs

Noboru Sakamoto (Nanzan U., Japan) David Banjerdpongchai (Chulalongkorn U., Thailand)

Organizing Committee Chairs

Shinichi Maruyama (Gunma U., Japan) Sungwan Boksuwan (KMITL, Thailand)

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Registration Co-Chairs

Seiji Hashimoto (Gunma U., Japan) Supakit Kawdungta (RMUTL, Thailand)

Tutorial/Workshop Co-Chairs

Takeki Ogitsu (Gunma U., Japan) Noriaki Ando (AIST, Japan) Poonyasiri Boonpeng (RMUTL, Thailand) Prasert Luekhong (RMUTL, Thailand)

Exhibition and Industrial Relations Co-Chairs

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Finance Co-Chairs

Yoshinori Ando (Gunma U., Japan) Iwanori Murakami (Gunma U., Japan) Patcharanun Yingkayun (RMUTL, Thailand)

Paper Submission

The SICE Annual Conference 2020 accepts two types of submissions for review:

Regular paper: Full papers (6 pages in conference format) must be submitted for review. The accepted papers will be submitted to the IEEE Xplore Digital Library. Normal length for the final manuscript of the regular paper is 6 pages. Paper exceeding 6 pages may be submitted upon payment of overlength page charges. A maximun of 2 extra pages above 6 pages are permitted.

Position paper: Extended abstracts (2-4 pages in conference format) mus be submitted for review. This category is provided for authors who want to present a timely review of research, a case study, and so on. This type of paper will **NOT be included** in the IEEE Xplore Digital Library.

Both types of papers should be writtenin English, and will be included in the conference proceedings. The detailed submission policy is found on the conference web page.

Local Arrangements Co-Chairs

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SICE Week Chair

Napasool Wongvanich (KMITL, Thailand)

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Contact: