



# SICE2022

## SICE ANNUAL CONFERENCE

**Kumamoto-Jo Hall**  
Kumamoto, Japan

**September 6-9, 2022**

**COVID-related Announcement:** We are planning to have SICE 2022 as a hybrid form with both face-to-face and online activities. However, depending on the COVID situation, SICE 2022 may run as a fully virtual conference.

### Committee Members

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Noboru Sebe (Kyushu Institute of Technology)

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#### Secretariats

Sadaaki Kunitatsu (Kumamoto University)

Koichi Suzuki (SICE)

### Call for Papers

The SICE Annual Conference 2022, organized by the Society of Instrument and Control Engineers (SICE), will be held on September 6-9, 2022, at Kumamoto-Jo Hall, Kumamoto, JAPAN. The SICE Annual Conference 2022 is an international conference covering a broad range of fields from measurement and control to system analysis and design, from theory to application, and from software to hardware, and will provide an opportunity for both academic and industrial engineering practitioners in measurement and control fields to present their work and discuss their ideas. The technical program of SICE 2022 will consist of plenary and invited talks, tutorial courses, and workshops, as well as oral and interactive sessions.

### Conference Venue

SICE 2022 will be held at Kumamoto-Jo Hall, a biggest conference center in Kumamoto.

Kumamoto-Jo Hall is located at center of Kumamoto city. It is easy to access from Kumamoto Station by tram and from Kumamoto airport by limousine bus. Kumamoto-Jo Hall is a four-story facility comprising: the Exhibition Hall, the Civic Hall, 19 small to large conference rooms, which can also be interconnected to offer larger spaces, and the Main Hall, which is one of the largest halls in Kyushu area. During the Edo period, the Sakuramachi / Hanabata district in Kumamoto City, where the Kumamoto-Jo Hall is located, flourished as a castle town. Everyone can see and visit Kumamoto castle, a big and beautiful castle.

<https://www.kumamoto-jo-hall.jp/en/>

### Important Dates (Deadline extended)

**April 11, 2022** : Deadline of Proposal of Workshops and Tutorials

**April 11, 2022** : Deadline of Proposal of Organized Sessions

**May 9, 2022** : Deadline of Submission for Regular Papers and Position Papers

**Late June, 2022** : Notification of Paper Acceptance

**Early July, 2022** : Submission of Final Camera-ready Papers

## Paper Submission

The SICE Annual Conference 2022 accepts two types of submissions for review. Regular paper : Full papers (4-6 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. Papers exceeding 6 pages may be submitted upon payment of overlength page charges.

A maximum of 2 extra pages over 6 pages are permitted.

Position paper : Extended abstracts (2-4 pages in conference format) must 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 written in English, and will be included in the conference proceedings. The detailed submission policy is found on the conference web page.

## Organized Session Submission

The goal of organized sessions is to provide focused discussions on a new topic or innovative applications of a new approach.

Each session consists of 5-6 papers, which will be 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. For further instruction, please visit the conference web page.

## Workshop and Tutorial

Proposals for workshops or tutorials that address technical topics related to control, automation, and systems in general are welcome.

We encourage such programs that will attract industrial members, and programs with highly anticipated level of interest, impact, creativity and technical background of presenters. For details, please see the conference web page.

## Technical Co-Sponsor (Tentative)

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

## In Association with (Tentative)

China Instrument and Control Society (CIS), Asian Control Association (ACA)

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## Topics of the Conference

The conference will be focused on, but not limited to, the following 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 and Control  
Networked Sensor System

### System and Information

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

### Control

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

### Industrial Applications

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 Engineering  
Electrophysiology and Kinesiology  
Ubiquitous Healthcare

### Others

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URL: <https://www.sice.jp/siceac/sice2022/>