

SICE2016

SICE ANNUAL CONFERENCE

September 20-23, 2016

Tsukuba International Congress Center,
Tsukuba, Japan

www.sice.or.jp/sice2016/



Advisory Committee Chair

Satoshi Honda (Keio Univ.)

General Chair

Yasushi Nakauchi (Univ. of Tsukuba)

Program Chair

Tetsuo Kotoku (AIST, Japan)

Program Chair

Noriaki Ando (AIST)

Tokihiko Kobata (AIST)

Tutorial/Workshop Co-Chairs

Eiichi Yoshida (AIST)

Mihoko Niitsuma (Chuo Univ.)

Organized Session Co-Chairs

Kensuke Harada (AIST)

Takashi Tsubouchi (Univ. of Tsukuba)

Poster Session Chair

Hiroaki Kawamoto (Univ. of Tsukuba)

Award Co-Chairs

Natsuki Yamanobe (AIST)

Yohei Kawamura (Univ. of Tsukuba)

Social Event Co-Chairs

Hiroaki Yano (Univ. of Tsukuba)

Takeshi Sakaguchi (AIST)

Exhibition Co-Chairs

Yuji Yasui (Honda Motor Co., Ltd.)

Yukie Nagaoka (Cybernet Systems Co., Ltd.)

Yasumichi Aiyama (Univ. of Tsukuba)

Tamio Tanikawa (AIST)

Publication Co-Chairs

Zhidong Wang (Chiba Inst. of Tech.)

Kazuyoshi Wada (Tokyo Metropolitan Univ.)

Finance Chair

Hiromi Mochiyama (Univ. of Tsukuba)

Registration Chair

Tomoyuki Yamaguchi (Univ. of Tsukuba)

Publicity Chair

Noriaki Ando (AIST)

Publicity Co-Chairs

Yanlong Zhao (Chinese Academy of Sciences)

Li-Chen Fu (National Taiwan Univ.)

Dong-Soo Kwon (KAIST)

Wei Ren (Univ. of California, Riverside)

E-Media Chair

Kenji Suzuki (Univ. of Tsukuba)

Local Arrangement

Yuka Maeda (Univ. of Tsukuba)

Keiichi Zempo (Univ. of Tsukuba)

Masahiko Mikawa (Univ. of Tsukuba)

Hisashi Date (Univ. of Tsukuba)

Secretariats

Hirotaka Osawa (Univ. of Tsukuba)

Masami Namiki (SICE)

Koichi Suzuki (SICE)

2nd Call for Papers

The SICE Annual Conference 2016, organized by the Society of Instrument and Control Engineers (SICE), will be held September 20-23, 2016, at Tsukuba International Congress Center, Tsukuba, JAPAN. The SICE Annual Conference 2016 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. The technical program of SICE 2016 will consist of plenary and invited talks, tutorial courses, and workshops, as well as oral and interactive sessions.

Important Dates

March 15, 2016	Deadline of Proposal of Workshops and Tutorials
March 15, 2016	Deadline of Proposal of Organized Sessions
March 31, 2016	Deadline of Submission for Regular Papers and Position Papers
June 1, 2016	Notification of Paper Acceptance
July 1, 2016	Submission of Final Camera-ready Papers

Venue

Tsukuba Science City, the conference venue, is located at the center of Tsukuba City, 60 km northeast of Tokyo. Via the Tsukuba Express Line from Akihabara Station in Tokyo, Tsukuba Science City is about an one-hour trip from Central Tokyo. It has about 60 educational and research organizations such as University of Tsukuba, Tsukuba Gakuin University, Tsukuba University of Technology, National Institute of Advanced Industrial Science and Technology (AIST), Japan Aerospace Exploration Agency (JAXA), National Agriculture and Food Research Organization (NARO) National Research Institute for Earth Science and Disaster Prevention (NIED), and High Energy Accelerator Research Organization (KEK).

Sponsors (Tentative)

Organized by the Society of Instrument and Control Engineers (SICE)
Technically Co-Sponsored by IEEE Control Systems Society (CSS), IEEE Robotics and Automation Society (RAS), IEEE Industrial Engineering 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)
In Association with The Chinese Association of Automation (CAA), China Instrument and Control Society (CIS), Asian Control Association (ACA)

Paper Submission

The SICE Annual Conference 2016 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. Papers exceeding 6 pages may be submitted upon payment of overlength page charges. A maximum of 2 extra pages above 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. An extra charge will apply for every additional page for papers longer than 6 pages. The detailed submission policy is found on the conference web page.

SICE Journal of Control, Measurement, and System Integration (JCMSI) will publish a special issue entitled "Special Issue on SICE Annual Conference 2016" in 2017. Please see the details on the web site of JCMSI (<http://www.sice.or.jp/JCMSI/>).

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.

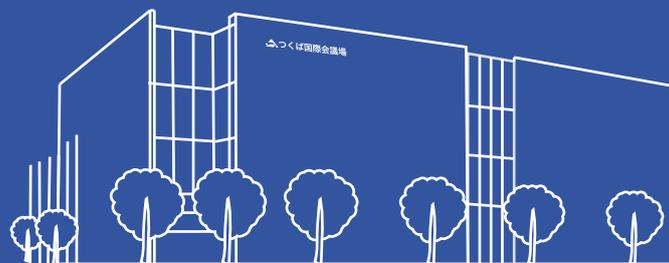
Workshop and Tutorials

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.

SICE2016
SICE ANNUAL CONFERENCE

September 20-23, 2016

Tsukuba International Congress Center,
Tsukuba, Japan



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
Hypercomputics
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
Robotics 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