

SICE2012

August 20-23, 2012

Akita University, Akita, Japan

International Conference on Instrumentation, Control and Information Technology



2nd Call for Papers

The SICE Annual Conference 2012, an international conference on Instrumentation, Control, Information Technology and System Integration, will take place in Akita, Japan on August 20-23, 2012. This conference covers a wide range of fields from measurement and control to system analysis and design, from theory to application and from software to hardware. The official language of the conference is English. Novel interdisciplinary challenges transferable between plural fields are especially welcome. The technical program will include Plenary and Invited Talks, Tutorial Courses, and Workshops, as well as Oral and Interactive Sessions. All the presented papers will be included in the IEEE Xplore Digital Library.

Regular Paper Submission

Authors are invited to submit a full paper up to 6 pages of A4 in English. All full papers must be submitted electronically through the SICE2012 web page. It is recommended that your extended abstract includes paper title, names of all authors, affiliations, postal mails, email addresses and phone/fax numbers. The detailed submission policy is found in the conference web page.

Organized Session Submission

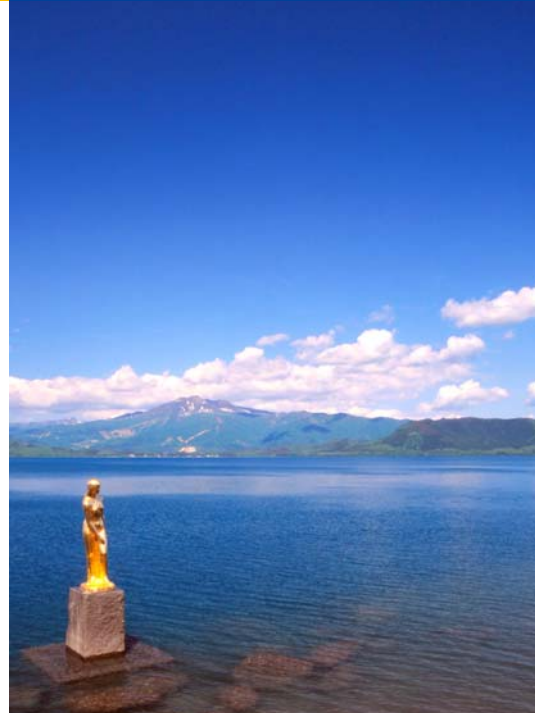
The goal of organized sessions is to provide focused discussions on a new topic or innovative applications of a new approach. Each session consists of 5-6 papers which will be reviewed via normal review process. The proposal is recommended to include a brief statement of the session focus, together with the extended abstract of individual papers submitted. For further instruction, please visit the conference website.

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. Submission instructions will appear on the SICE2012 web page.

Important Dates

Feb 11, 2012	Proposal of Organized Sessions, Workshop and Tutorials
Feb 25, 2012	Submission of Extended Abstracts for Regular Papers
Apr 25, 2012	Notification of Paper Acceptance
May 16, 2012	Submission of Final Camera-ready Papers



Conference Schedule

WS/Tutorial:	Aug 20, 2012
Technical Session:	Aug 21-23, 2012
Banquet:	Aug 22, 2012
Citizen Forum/SICE Week:	Aug 18-19, 2012

Advisory Committee Chair

Masatoshi Ishikawa (President of SICE)

General Chair

Hiroshi Inoue (Akita Univ., Japan)

Program Chair

Hideaki Sone (Tohoku Univ., Japan)

Organizing Committee Chair

Kazuhiko Imano (Akita Univ., Japan)

Publication Chair

Hitoshi Obara (Akita Univ., Japan)

Finance Chair

Yotsugi Shibuya (Akita Univ., Japan)

Local Arrangement Chair

Ryuji Igarashi (Akita Univ., Japan)

Local Arrangement Co-Chair

Nobuhiro Shimoi (Akita Pref. Univ., Japan)

Secretariats

Akihiro Naganawa (Akita Univ., Japan)

Makoto Fukuda (Akita Univ., Japan)

Organized by the Society of Instrument and Control Engineers (SICE)

Supported by Akita University

Technically Co-Sponsored by 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)

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

Systems Theory and Engineering
Biological and Physiological Engineering
Intelligent Systems
Neural Networks
Autonomous Decentralized Systems
Discrete Event 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

Advanced Integration

Emergent Technologies
Fuzzy Systems
Educational Systems/E-Learning

Life Engineering

Integrative Biophysical Engineering and Informatics
Electrophysiology and Kinesiology
Ubiquitous Healthcare

Others

Registration Fee

Full Registration (includes one banquet ticket)

Advance Registration

Society Member*	JPY 35,000
Non-member	JPY 45,000

On-site Registration

Society Member*	JPY 45,000
Non-member	JPY 55,000

Student Registration

Advance Registration

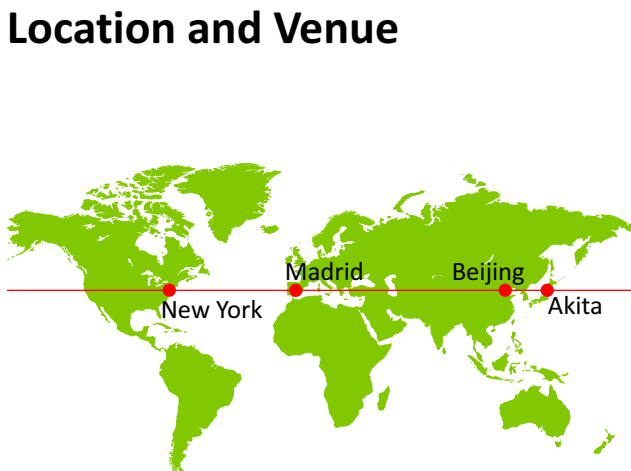
Student Member*	JPY 10,000
Student Non-member	JPY 15,000

On-site Registration

Student Member*	JPY 15,000
Student Non-member	JPY 20,000

*The society includes SICE, IEEE, ICROS, ISA, CIS, CAA, CACS.

Location and Venue



The conference activities will all be taking place in Akita University, Akita City, Akita, Japan. Akita City is located in the northwest part of Tohoku, 150 minutes by airplane from Seoul, 80 minutes by airplane from Osaka or Nagoya, 70 minutes by airplane from Tokyo, 60 minutes by airplane from Sapporo, and is the prefectural capital of Akita.

