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International Conference on Control, Automation and Systems 2010 (ICCAS 2010)

October 27(Wed.)-30(Sat.), 2010
KINTEX, Gyeonggi-do, KOREA   **http://iccas.org/**

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ICCAS 2010 will be held at the KINTEX (http://www.kintex.com), Gyeonggi-do, Korea on October 27-30, 2010 together with Robot World 2010. **ICCAS 2010** will bring together researchers, engineers and practitioners to present the latest accomplishments, innovations and potential future directions in control, robotics, information technology, systems, and their applications. **Topics** of the conference include but are not limited to

■ **Control Theory**
  ◆ Linear/Nonlinear Control
  ◆ Adaptive/Robust Control
  ◆ Identification and Estimation
■ **Intelligent Control**
  ◆ Artificial Neural Networks
  ◆ Fuzzy Systems
■ **Industrial Applications of Control**
  ◆ Automotive Systems
  ◆ Power Systems
  ◆ Communication Systems
  ◆ Manufacturing Systems and Automation
■ **Sensors and Signal Processing**
  ◆ Sensors and Instrumentation
  ◆ Signal Processing and Sensor Fusion
  ◆ Fault Diagnosis
■ **Control Devices and Instruments**
  ◆ Power Electronics
  ◆ Hydraulic/Pneumatic Systems
  ◆ MEMS and Nano Technologies
■ **Robot Control**
  ◆ Kinematics and Dynamics of Robots
  ◆ Manipulation and Motion Planning
  ◆ Mobile Robots and Navigation
■ **Robot Vision**
  ◆ Robot Vision and Visual Servoing
  ◆ Object/Human Visual Recognition
■ **Human-Robot Interaction**
  ◆ Human-Robot Interaction
  ◆ Speech Recognition
  ◆ Haptics and Virtual Presence
  ◆ Virtual Reality based Simulation

■ **Robotic Applications**
  ◆ Biorobotics and Medical Robots
  ◆ Service and Field Robots
  ◆ Humanoid Robots
■ **Unmanned Vehicle Systems**
  ◆ Unmanned Aerial Vehicles
  ◆ Unmanned Ground Vehicles
  ◆ Unmanned Underwater Vehicles
■ **Navigation, Guidance and Control**
  ◆ Navigation Algorithms
  ◆ Guidance Technologies
  ◆ GPS
■ **Process Systems**
  ◆ Process Control and Monitoring
  ◆ Process Design and Optimization
  ◆ Process Automation
■ **Biomedical Systems**
  ◆ Biomedical Instrumentation
  ◆ Biomedical Signal Processing
  ◆ Bio-Systems and Control
■ **Information and Networking**
  ◆ Real-Time and Embedded Systems
  ◆ Network-Based Control Systems
  ◆ Networked/Ambient Intelligence
■ **Multimedia Systems**
  ◆ Database and Data Fusion
  ◆ Computer Animation
■ **Civil and Urban Systems**
  ◆ Environmental Engineering
  ◆ Structural Control and Health Monitoring
  ◆ Smart Structures

Paper Submission

Authors are invited to submit an extended abstract of 2 pages to http://iccas.org/. Accepted papers will be published in the ICCAS 2010 proceedings that will be included in **IEEE Xplore and EI compendex**. If authors have problems in submission through the homepage, please feel free to contact the secretariat.

TEL: +82-32-234-5801 / FAX: +82-32-234-5807   E-mail: conference@icros.org

Important dates

April	**30, 2010**	**:**	**Submission of organized session proposal**
May	**14, 2010**	**:**	**Submission of extended abstracts**
June	**15, 2010**	**:**	**Notification of paper acceptance**
August	**6, 2010**	**:**	**Submission of final camera-ready papers (Extended)**

Organized by
Institute of Control, Robotics and Systems (ICROS)

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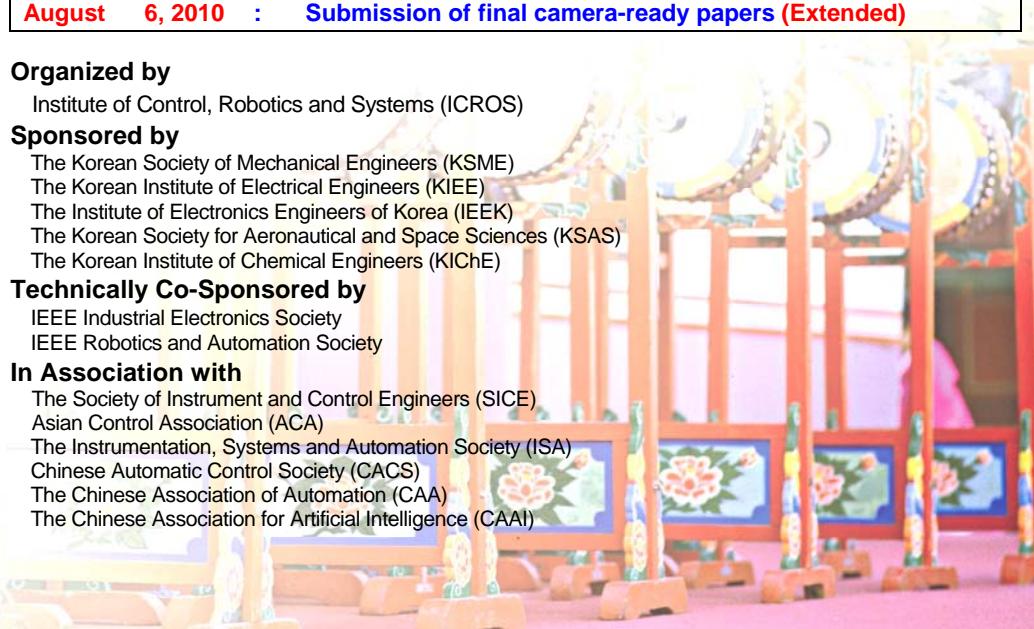The Society of Instrument and Control Engineers (SICE)
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Organized Sessions

The goal of organized sessions is to provide focused discussions on a new topic or innovative applications of a new approach. Proposals for organized sessions should be submitted by **April 30, 2010** through the conference website. Each organized session consists of five or six papers, which will be reviewed through the normal review process. In case an invited paper is not accepted, it will be replaced by a relevant paper. The proposal should be submitted by the session organizer, and include a brief statement of the focus of the session, along with the authors' names and titles of individual papers submitted.

Workshops and Tutorials

Proposals for workshops or tutorials that address the technical topics related to control, robotics, 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. Proposals should be submitted by **June 15, 2010** through the e-mail (conference@icros.org).

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