International Conference on Control, Automation and Systems 2008 (ICCAS 2008)

October 14(Tue.)-17(Fri.), 2008 COEX (Convention & Exhibition), Seoul, KOREA  http://iccas.org/

ICCAS 2008 will be held at the COEX (Convention & Exhibition, http://www.coex.co.kr/) in Seoul, Korea on October 14-17, 2008. ICCAS 2008 will bring together researchers, engineers and practitioners to present the latest accomplishments, innovations and potential future directions in instrumentation, control, automation, information technology, systems, and their applications. Organized Sessions are welcome. Five or six papers should be submitted for an organized session. Papers are invited on all aspects of innovative theory and applications of instrumentation, control, automation, and information technology. Topics include but are not limited to:

- **Control Theories**
  - 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
  - Signal 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 Servo
  - Object/Human Visual Recognition

- **Human-Robot Interface**
  - Human-Robot Interaction
  - Speech Recognition
  - Haptics and Virtual Presence
  - Virtual-Reality-Based Simulation

- **Robot Applications**
  - Birobotics 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
  - Bio-Medical Systems

- **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 summary on 2 pages to http://iccas.org/. Accepted papers will be published in an ICCAS2008 proceeding that will be included in IEEE xplora. If authors have problems in submission through the homepage, please feel free to contact the secretariat.

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**Important dates** are as follows:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 30, 2008</td>
<td>(Extended!!) Submission of organized session proposal</td>
</tr>
<tr>
<td>May 15, 2008</td>
<td>(Extended!!) Submission of extended abstracts</td>
</tr>
<tr>
<td>June 2008</td>
<td>Notification of paper acceptance</td>
</tr>
<tr>
<td>August 11, 2008</td>
<td>(Extended!!) Submission of final camera-ready papers</td>
</tr>
</tbody>
</table>

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

**Sponsored by**
The Korean Society of Mechanical Engineers (KSME)
The Korean Institute of Electrical Engineers (KIEE)
The Korean Society for Aeronautical and Space Sciences (KSAS)
The Korean Institute of Chemical Engineers (KICHE)

**Technically Co-Sponsored by**
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IEEE Robotics and Automation Society
IEEE Control Systems Society
IEEE Systems, Man, and Cybernetics Society

**In Association with**
The Society of Instrument and Control Engineers (SICE)
The Instrumentation, Systems and Automation Society (ISA)
Chinese Automatic Control Society (CACS)
The Chinese Association of Automation (CAA)
The Chinese Association for Artificial Intelligence (CAAI)
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 15 to the Organized Sessions Co-Chairs below. Each Organized Session consists of five or six papers, which will be reviewed via 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.

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Workshops and Tutorials

Requirements for Proposals

Proposals for workshops or tutorials that address the 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

Proposals following the format above must arrive at the address below through e-mail by May 15, 2008.

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