**2011 11th International Conference on Control, Automation and Systems (ICCAS 2011)**

**General Chair**
Sangchul Won (ICROS, President, Korea)

**Organizing Chair**
Chung Choo Chung (Hanyang Univ., Korea)

**Advisory Council**
Wook Hyun Kwon (Seoul National Univ., Korea)
Hyung Suck Cho (KAIST/DGIST, Korea)
Sung Kwon Kim (Korea Polytechnic Univ., Korea)
Jin Seog Choi (Hanyang Univ., Korea)
Man Hyung Lee (Pusan National Univ., Korea)
Masatoshi Ishikawa (SICE, President, Japan)
Shinji Hara (The University of Tokyo, Japan)
Kouhei Onishi (Past-President of IEEE/IES, Japan)
Tong Heng Lee (Natl Univ. of Singapore, Singapore)
Deyi Li (CAAI, President, China)

**Program Chair**
Hyochong Bang (KAIST, Korea)

**Regional Program Co-Chairs**
Hideki Hashimoto (The Univ. of Tokyo, Japan)
Zongzi Sun (Tsinghua Univ., China)
Li-Chen Fu (National Taiwan Univ., Taiwan)
Taworn Benjanarasuth (KMITL, Thailand)

**International Relation Co-Chairs**
Seul Jung (Chungnam National Univ., Korea)
Kang-Hyun Jo (University of Ulsan, Korea)
Pooeygeon Park (POSTECH, Korea)

**Programmed Session Co-Chairs**
Gyu-In Jee (Konkuk Univ., Korea)
Moon Yong Lee (Yeungnam Univ., Korea)
Young II Lee (SeoulTech, Korea)
Chang-Kyung Ryoo (Inha Univ., Korea)
Young Soo Suh (University of Ulsan, Korea)

**Finance Co-Chairs**
Dong Hyuk Cha (Korea Polytechnic Univ., Korea)
Kang-Bak Park (Korea Univ., Korea)

**Workshops & Tutorials Co-Chairs**
Hyo-Sung Ahn (GIST, Korea)
DaeWoo Lee (Pusan National Univ., Korea)
Euntai Kim (Yonsei Univ., Korea)
Duk-Sun Shim (Chung-Ang Univ., Korea)

**Publication Co-Chairs**
Hyeongcheol Lee (Hanyang Univ., Korea)
Kyoung-Soo Kim (KAIST, Korea)

**Publicity Co-Chairs**
Jietae Lee (Kyungpook National Univ., Korea)
Suk Lee (Pusan National Univ., Korea)
Kee-Ho Yu (Chonbuk National Univ., Korea)
Juhoon Back (Kwangwoon Univ., Korea)

**Local Arrangement Co-Chairs**
DaeEun Kim (Yonsei Univ., Korea)
Jaehyun Jin (Sunchon National Univ., Korea)
Joono Cheong (Korea Univ., Korea)

**Secretariat**
Hye Kyung Cho (Hansung Univ., Korea)
Jin Young You (ICROS, Korea)

**2011 11th International Conference on Control, Automation and Systems (ICCAS 2011)**

**October 26(Wed.-)29(Sat.), 2011**
**KINTEX, Gyeonggi-do, KOREA**

[http://iccas.org/](http://iccas.org/)

**ICCAS 2011** will be held at the KINTEX ([http://www.kinex.co.kr](http://www.kinex.co.kr)), Gyeonggi-do, Korea on October 26-29, 2011 together with Robot World 2011. **ICCAS 2011** 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 and Applications**
  - 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 full papers to [http://iccas.org](http://iccas.org). Accepted papers will be published in the ICCAS 2011 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.

**Important dates**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 29</td>
<td>Submission of organized session proposal</td>
</tr>
<tr>
<td>May 9</td>
<td>Submission of papers</td>
</tr>
<tr>
<td>June 30</td>
<td>Notification of paper acceptance</td>
</tr>
<tr>
<td>August 8</td>
<td>Submission of final camera-ready papers (Extended)</td>
</tr>
<tr>
<td>July 29</td>
<td>Submission of workshops and tutorials proposal</td>
</tr>
</tbody>
</table>

**Organization**

- Institute of Control, Robotics and Systems (ICROS)
- Institute of Control, Robotics and Systems (ICROS)

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

**Technically Co-Sponsored by**
- IEEE Industrial Electronics Society
- IEEE Robotics and Automation Society

**In Association with**
- The Society of Instrument and Control Engineers (SICE)
- Asian Control Association (ACA)
- 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)