

Automation Science and Engineering

August 22-25, 2009**Bangalore, India**

Call for Papers

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Y. Narahari
 Indian Institute of Science, India
 hari@csa.iisc.ernet.in

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 University of Pennsylvania, USA
 kumar@seas.upenn.edu

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Spyros Reveliotis
 Georgia Institute of Technology, USA
 spyros@isye.gatech.edu

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Special Sessions Chair

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Important Dates

Feb. 15, 2009: Special session proposal submission

Feb. 28, 2009: Special session acceptance notification

March 1, 2009: Contributed paper submission / Tutorial and workshop proposal submission

March 15, 2009: Submission of papers and extended abstracts for accepted special sessions

April 1, 2009: Tutorial and Workshop acceptance notification

May 15, 2009: Paper acceptance notification

May 30: Conference registration opens

June 15, 2009: Final paper submission

August 22, 2009: Conference Tutorials and Workshops

August 23-25: Main conference events

The fifth annual IEEE Conference on Automation Science and Engineering (IEEE CASE 2009), sponsored by the IEEE Robotics and Automation Society, will be held from August 22 to 25, 2009, in Bangalore, India. IEEE CASE is an offspring of *IEEE Transactions on Automation Science and Engineering*, (IEEE T-ASE www.ieee.org/t-ase), and it constitutes the primary forum for cross-industry research in automation. The goal of the conference is to provide a broad coverage and dissemination of foundational research in automation among researchers, academicians, and industry practitioners.

The 2009 Edition of IEEE CASE will evolve around the themes of **Foundations of Automation, Knowledge Sciences and Automation, Sensors and Sensor Networks, Manufacturing, Logistics and Supply Chain Management, Life Sciences and Health Care Automation and Meso, Micro and Nano-Scale Automation**. Some detailed target areas are as follows:

- Laboratory Automation
- Automation in Treatment Diagnosis and Disease
- Workflow Modeling, Analysis and Management in Health Care Systems
- Hospital and Medical Robotics
- Web, Data and Text Mining
- Internet and Data Analytics
- Intelligent Search
- Predictive Intelligence
- Web-based Automation and Workflow Management Systems
- E-commerce, E-markets and E-procurement
- Auctions and Mechanism Design
- Dynamic Pricing and Network Economics
- Services Science and Engineering
- Web Services and Service Oriented Architectures
- Information and Homeland Security
- Machine Learning
- Multi-Agent Systems and Distributed Control
- Reconfigurable Manufacturing Systems
- Industrial Robotics and Automation
- Material Handling Automation
- Automation in Remanufacturing, Green Technologies and Reverse Logistics
- Automation in Logistics and Supply Chain Management
- Automation in Product Life Cycle Management
- Algorithmic Automation
- Discrete-Event and Hybrid Systems
- Performance-Modeling Approaches in Automation
- Planning, Coordination and Scheduling
- Software Engineering in Automation
- Image Processing and Vision-based Automation
- Sensory Data Fusion
- Diagnostics and Prognostics
- Optimized Configuration of Sensor Systems
- Resource Allocation and Management in Sensor Systems

Solicited Submissions: The technical program of IEEE CASE will consist of plenary talks, paper presentations, special sessions on cutting edge and industry oriented topics, workshops and tutorials.

Detailed instructions for the preparation and submission of contributed papers, as well as of proposals for special sessions, tutorials and workshops, can be found at the conference web site: <http://www.ieee-case.org>.

High quality CASE papers will be recommended for publication in IEEE T-ASE.

Conference Venue: The venue of the conference is Hotel Grand Ashok, one of Bangalore's celebrated hotels. Bangalore itself is a leading hub of India's modern economy and a primary base for many global companies, especially in the IT sector. It is also the home for many of India's premier research institutions, including the Indian Institute of Science and numerous research labs of the government and global companies. Bangalore is distinguished by its salubrious weather and by a colorful and attractive lifestyle that results from the seamless blending of the old and the modern Indian cultures. It is directly served by many well known air carriers.