



2010 IEEE International Conference on
Systems, Man, and Cybernetics: **SMC 2010**
10-13 October 2010, Istanbul, TURKEY
<http://www.smc2010.org>



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Theme:

The 2010 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2010) provides an international forum that brings together those actively involved in areas of interest to the IEEE Systems, Man, and Cybernetics Society, to report on up-to-the-minute innovations and developments, to summarize the state-of-the-art, and to exchange ideas and advances in all aspects of systems science and engineering, human machine systems, and cybernetics. For this purpose, contributions covering theoretical developments and practical applications, including but not limited to the technical areas listed in the table below are invited.

For 2010, the theme of the conference is chosen as:

Intelligent Systems for a Safe and Secure World

Our quality of life heavily depends on the reliable operation of large-scale critical infrastructures, such as electric power systems, telecommunication networks, and water distribution networks. The design, monitoring, control and security of such systems, as well as their management, are becoming increasingly more challenging as their size, complexity and interactions are steadily growing. These challenges can only be met with appropriate advances in Systems Science and Engineering, Human-Machine Systems, and Cybernetics. Papers related to this conference theme are especially solicited, including theories, methodologies and applications.

Important Dates:

Feb. 1, 2010: Deadline for submission of proposals for Special Sessions.

March 15, 2010: Deadline for submission of full-length papers for Regular and Special Sessions.

April 15, 2010: Deadline for submission of proposals for Tutorial/Workshop Sessions.

May 15, 2010: Acceptance/Rejection notification for Tutorial/Workshop Sessions.

May 15, 2010: Acceptance/Rejection notification for regular papers and special session papers.

June 27, 2010: Final camera-ready papers due in electronic form and deadline for submitting tutorial/workshop materials.

Call for Regular Sessions Papers:

Prospective authors are invited to submit their full-length papers electronically through the conference website. Each paper should be concise, but contain sufficient detail and references to allow critical review. Each paper will be judged by at least two referees.

Call for Special Sessions:

The goal of Special Sessions (SS) is to provide a focused discussion of new or innovative topics. SS organizer(s) must collect at least five papers. An individual can download an SMC 2010 SS proposal form from SMC 2010 official site, and send a full-filled form to the SS Chair. SS papers will be reviewed with the same criteria as Regular Session papers.

Technical Areas

Systems Science & Engineering

Communications
Conflict Resolution
Consumer and Industrial Applications
Control of Uncertain Systems
Cooperative Systems and Control
Decision Support Systems
Discrete Event Systems and Petri Nets
Distributed Intelligent Systems
Enterprise Information Systems
Fault Monitoring and Diagnosis
Intelligent Power Grid
Smart Metering
Infrastructure Systems and Services
Homeland Security
Intelligent Green Production Systems
Intelligent Transportation Systems
Large-Scale/Complex Syst. Sys. of Systems
Manufacturing Systems & Automation
Mechatronics
Micro and/or Nano Systems
Quality/Reliability Engineering
Robotic Systems
Service Systems and Organizations
Smart Sensor Networks
System Modeling & Control
Technology Assessment

Human-Machine Systems

Assistive Technology
Augmented Cognition
Brain-based Information Communications
Design Methods
Entertainment Engineering
Human-Computer Interaction
Human Factors
Human Performance Modeling
Human-Machine Cooperation and Systems
Human-Machine Interface & Communications
Web Intelligence and Interaction
Information Visualization
Information Systems for Design & Marketing
Virtual and Augmented Reality Systems
Interactive and Digital Media
Interactive Design Science & Engineering
Kansei (sense/emotion) Engineering
Medical Informatics
Multimedia Systems
Multi-user Interaction
Resilience Engineering
Supervisory Control
Systems Safety and Security
Team Performance and Training Systems
User Interface Design
Wearable Computing

Cybernetics

Agent-Based Modeling
Artificial Immune Systems
Artificial Life
Biometric systems and Bioinformatics
Computational Intelligence
Computational Life Science
Cybernetics for Informatics
Evolutionary Computation
Expert & Knowledge-based Systems
Information Assurance & Intelligent Multimedia
Computation
Heuristic Algorithms
Hybrid models of NN, Fuzzy Systems & Evolutionary Computing
Image Processing/Pattern Recognition
Fuzzy Systems and Their applications
Intelligent Internet Systems
Knowledge Acquisition in Intelligent
Machine Learning
Machine Vision
Media Computing
Medical Informatics
Neural Networks and Their Applications
Optimization & Swarm Intelligence
Self-Organization
Grey Systems and Its Applications