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<http://www.smc2014.org>



## SMC 2014 CALL FOR PAPERS



2014 IEEE International Conference on Systems, Man, and Cybernetics  
October 5-8, 2014 Paradise Point Resort and Spa, San Diego, CA, USA

The 2014 IEEE International Conference on Systems, Man, and Cybernetics (SMC2014) will be held at the luxurious Paradise Point Resort and Spa, 1404 Vacation Road, San Diego, located on a 44 acre private island of Mission Bay. SMC2014 is the flagship conference of the IEEE Systems, Man, and Cybernetics Society. It provides an international forum for researchers and practitioners to report up-to-the-minute innovations and developments, summarize state-of-the-art, and exchange ideas and advances in all aspects of systems science and engineering, human machine systems, and cybernetics. Advances in systems science and engineering, human-machine systems, and cybernetics have increasing importance in the creation of intelligent environments involving technologies interacting with humans to provide an enriching experience, and thereby improve quality of life. SMC2014 is dedicated to Norbert Wiener, the "Father of Cybernetics." In honor of the 120<sup>th</sup> anniversary of his birth, the theme of the conference is

### *From Norbert Wiener to the Cyberworld*

Papers related to the conference theme are especially solicited, including theories, methodologies, and emerging applications. The following contributions on theory and practice, including but not limited to the following technical areas, are invited.

#### Systems Science & Engineering

Communications  
Conflict Resolution  
Consumer/Industrial Applications  
Control of Uncertain Systems  
Cooperative Systems and Control  
Decision Support Systems  
Discrete Event Systems  
Distributed Intelligent Systems  
Enterprise Information Systems  
Fault Monitoring and Diagnosis  
Intelligent Power Grid  
Smart Metering  
Infrastructure Systems & Services  
Homeland Security  
Intelligent Green Production  
Intelligent Transportation Systems  
Large-Scale System of Systems  
Manufacturing Systems/Automation  
Mechatronics  
Micro and/or Nano Systems  
Quality/Reliability Engineering  
Robotic Systems  
Service Systems & Organizations  
Smart Sensor Networks  
System Modeling and 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 & Systems  
Human-Machine Interface Web  
Intelligence 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 and Knowledge-based Systems  
Information Assurance & Intelligent  
Multimedia Computation  
Heuristic Algorithms  
Hybrid models of NN, Fuzzy Systems  
and 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  
Self-Organization  
Swarm Intelligence

#### Important Dates

Feb 15, 2014	Deadline for submission of proposals for Special Sessions
Mar 15, 2014	Acceptance/rejection notification of proposals for Special Sessions
<b>Apr 24 28, 2014</b>	Extended deadline for submission of regular, special, short, demo, and poster sessions
Apr 15, 2014	Deadline for submission of proposals for tutorial and workshop sessions
May 25, 2014	Acceptance notification for tutorial and workshop sessions
May 25, 2014	Acceptance notification for all categories of papers and posters
Jul 9, 2014	Final camera-ready papers due for regular, special, short, and demo paper sessions
Aug 5, 2014	Deadline for early registration
Oct 5-8, 2014	Conference dates

#### Call for Regular Session Papers

Prospective authors are invited to submit full-length papers electronically through the conference website. Papers should be concise, but contain sufficient detail and references to allow critical review.

#### Call for Special Sessions

Special Sessions provide a focused discussion of new or innovative topics. Special session organizers collect at least five papers, download the special session proposal template from the SMC2014 website, and submit the completed proposal to the Special Sessions Chair.

#### Call for Short Paper Sessions, Demo Paper Sessions, and Poster Sessions

These categories are intended to promote applied research and applications, including work in progress, and encourage collaboration between industrial and academic members of the SMC community.