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 120th 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
- 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
- Intelligent 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
- **Apr 21, 2014**: Deadline for submission of proposals for tutorial and workshop sessions
- Apr 15, 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.

---

**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

http://www.smc2014.org