IEEE SMC 2015

IEEE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN, AND CYBERNETICS

October 10-13, 2015, Hong Kong
http://www.smc2015.org

SMC 2015 Call for papers

The 2015 IEEE International Conference on Systems, Man, and Cybernetics (SMC2015) will be held in Hong Kong. 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 innovation and development, summarize the state-of-the-art, and exchange ideas and advances in all aspects of systems science and engineering, human machine systems, and cybernetics. The conference theme is:

Big Data Analytics for Human-Centric Systems

Humans, software, and hardware are routinely combined to form systems to meet needs of ever-increasing scope and application. Pervasive sensors distributed across a range of temporal and geographic scales now make unprecedented data sets available. These data can be used to understand and support how systems function, how they can reflect human needs and capabilities, and how they can be improved. Considerable barriers still exist to harnessing these data to address the complexity of real-world applications and simulations. Human systems need well-considered analytic approaches that reflect an understanding of human cognitive work. Software and hardware systems need architectures and tools that are efficient, fault-tolerant and well-suited to human needs. This conference seeks to engage the SMC community to address these issues and to craft new discoveries and applications that will shape how society views and uses big data.

Systems Science & Engineering
- Systems modelling
- Systems analysis
- Formal methods
- Simulation
- Validation and verification
- Engineering lifecycle (definition, development, and deployment)
- Systems management
- Systems engineering processes
- Optimization (single objective and multiobjective)
- Hierarchy of systems
- Interaction
- Agent and multi-agent systems
- Collaboration
- Game theory and applications
- Conflict resolution
- Consensus
- Distributed systems
- Fault tolerance
- Production systems
- Decision support architectures
- Asset allocation
- Social networks
- Recommender systems

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

Cybernetics
- Ambient Intelligence
- Artificial Immune Systems
- Artificial Life
- Biometrics
- Bioinformatics
- Computational Intelligence
- Computational Life Science
- Evolutionary Computation
- Expert Systems
- Fuzzy Systems
- Image and Signal Processing
- Knowledge-Based Systems
- Information Assurance
- Intelligent Multimedia Processing
- Intelligent Internet Systems
- Knowledge Acquisition
- Machine Learning
- Machine Vision
- Medical Informatics
- Neural Networks
- Optimization
- Pattern Recognition
- Self-Organization
- Smart Environment
- Swarm Intelligence

Important Dates

Submission due:	**March 31, 2015**
Notification of acceptance:	**June 1, 2015**
Author registration deadline:	**July 10, 2015**
Camera-ready deadline:	**July 20, 2015**

Call for Special Sessions

Proposals to organize Special Sessions are strongly encouraged. Special Sessions must be related to the conference theme or especially hot topics within the conference scope. All submitted papers undergo the same review process, and submission to proposed sessions is not a guarantee of acceptance.

Call for Contributed Papers

Prospective authors are invited to submit their full-length papers electronically through the conference website. Each paper should be concise with sufficient detail and references to allow critical review. Papers will be reviewed by at least two referees for technical merit and content. Accepted papers will appear in the conference proceedings on the Xplore only if one of the authors is registered for the conference and presents the paper at the conference.