

SMC2018 Call for Papers

The 2018 IEEE International Conference on Systems, Man, and Cybernetics

Seagaia Convention Center, Phoenix Seagaia Resort,
Miyazaki, Japan, October 7-10, 2018

<http://smc2018.org>



The Making of a Human-Centered Cyber World

The 2018 IEEE International Conference on Systems, Man, and Cybernetics (SMC2018) will be held at Seagaia Convention Center, Phoenix Seagaia Resort, Miyazaki, Japan. SMC2018 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 theme of the conference is "The Making of a Human-Centered Cyber World". You are invited to participate and submit your contributions to SMC2018. The areas of interest include (but are not limited to) the following topics:

Systems Science & Engineering

Communications
Conflict Resolution
Consumer/Industrial Applications
Control of Uncertain Systems
Cooperative Systems and Control
Cyber-Physical Cloud Systems
Decision Support Systems
Discrete Event Systems
Distributed Intelligent Systems
Enterprise Information Systems
Enterprise Architecture and Engineering
Fault Monitoring and Diagnosis
Grey Systems
Homeland Security
Infrastructure Systems and Services
Intelligent Green Production Systems
Intelligent Learning in Control Systems
Intelligent Power and Energy Systems
Intelligent Power Grid
Intelligent Transportation Systems
Intelligent Vehicle Systems and Control
Large-Scale System of Systems
Logistics Informatics and Industrial Security Systems
Manufacturing Systems/Automation
Mechatronics
Medical Mechatronics
Micro and/or Nano Systems
Model-Based Systems Engineering
Quality/Reliability Engineering
Robotic Systems
Service Systems and Organizations
Smart Metering
Smart Sensor Networks
System Modeling and Control
System of Systems
Systems Biology
Technology Assessment

Human-Machine Systems

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

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
Fuzzy Systems and their Applications
Heuristic Algorithms
Hybrid Models of Neural Network, Fuzzy Systems and Evolutionary Computing
Image Processing/Pattern Recognition
Information Assurance and Intelligent Multimedia Computation
Intelligent Internet Systems
Knowledge Acquisition in Intelligent Machine Learning
Machine Vision
Media Computing
Medical Informatics
Neural Networks and their Applications
Optimization
Quantum Cybernetics
Quantum Machine Learning
Self-Organization
Swarm Intelligence

General Chair

Yutaka Hata, Univ. of Hyogo, Japan

General Co-Chairs

Koichi Tanno, Univ. of Miyazaki, Japan

Daniel Yeung

Past President, IEEE SMCS, USA

Sam Kwong

City Univ. of Hong Kong, Hong Kong

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Tadahiko Murata, Kansai Univ., Japan

Technical Program Track Chairs

Systems Science & Engineering

Rodney Roberts, Florida State Univ., USA

Human-Machine Systems

Honghai Liu, Univ. of Portsmouth, UK

Cybernetics

Qiangfu Zhao, Univ. of Aizu, Japan

Special Session Chairs

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Tokyo Metropolitan Univ., Japan

Patrick Chan

South China Univ. of Technology, China

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Hideyuki Takagi, Kyushu Univ., Japan

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Omron Corporation, Japan

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Noboru Takagi

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Publication Chairs

Syoji Kobashi, Univ. of Hyogo, Japan

Chao-Cheng Wu

National Taipei Univ. of Technology, Taiwan

Secretary

Naomi Yagi, Kyoto Univ., Japan

Key Dates:

- Submission due: March 31, 2018
- Notification of acceptance: June 1, 2018
- Author registration deadline: July 10, 2018
- Camera-ready deadline: July 20, 2018

Call for Special Sessions: Proposal Period from Oct 15, 2017 to Feb 23, 2018 (E-mail: ss-info@smc2018.org)

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 be presented in oral or poster sessions. All accepted papers which have been presented at SMC 2018 will be published in the conference proceedings on the IEEE Xplore, and are submitted for indexing through INSPEC, EI's Engineering Information Index, Compendex, ISI Thomson's Scientific and Technical Proceedings, ISTP/ISI Proceedings.

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