



IEEE
SMC
Systems, Man, and Cybernetics Society

www.smc2020.org

Important Dates

February 16, 2020

Deadline for submission of proposals for Special Sessions

March 15, 2020

Acceptance/rejection notification of proposals for Special Sessions

April 5, 2020

Deadline for submission of contributions for Regular, Special Sessions, and Industrial Papers

Deadline for submission of contributions for SMC Junior Papers

Deadline for submission of proposals for Tutorials and Workshop Sessions

Apr 26, 2020

Acceptance notification for Tutorials and Workshop Sessions

May 24, 2020

Acceptance notification for Regular, Special Sessions, and Industrial Papers

May 24, 2020

Acceptance notification for SMC Junior Papers

July 12, 2020

Final papers due for Regular, Special Sessions, Industrial, SMC Junior, and Workshop Papers

August 2, 2020

Deadline for early registration

October 11-14, 2020

Conference dates



CALL FOR PAPERS



IEEE SMC 2020

OCTOBER 11-14 TORONTO

2020 IEEE International Conference on Systems, Man, and Cybernetics
Metro Toronto Convention Centre, South Building
222 Bremner Boulevard, Toronto, Ontario M5V 3L9, Canada

The 2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2020) is the flagship conference of the IEEE Systems, Man, and Cybernetics Society. It provides an international forum for researchers and practitioners to report most recent 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 these fields 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. Papers related to the conference theme are solicited, including theories, methodologies, and emerging applications. Contributions to theory and practice, including but not limited to the following technical areas, are invited:

Systems Science and 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
Homeland Security
Intelligent Power Grid
Infrastructure Systems & Services
Intelligent Green Production Systems
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 Metering
Smart Cities
Smart Buildings and Infrastructures
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
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
Virtual and Augmented Reality Systems
Wearable Computing

Cybernetics

Agent-Based Modeling
Artificial Life & Immune Systems
Awareness Computing
Biometric Systems and Bioinformatics
Computational Intelligence
Computational Life Science
Cybernetics for Informatics
Evolutionary Computation
Expert and Knowledge-Based Systems
Fuzzy Systems and their applications
Information Assurance & Intelligent
Multimedia Computation
Heuristic Algorithms
Hybrid Models of Neural Networks, Fuzzy
Systems, and Evolutionary
Computing
Image Processing/Pattern Recognition
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

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Regular Papers

Prospective authors are invited to submit full-length papers electronically through the conference website. Papers (6-8 pages) should be concise but contain sufficient details and references to allow critical review.

Special Sessions

Special Sessions provide a focused discussion of new and innovative topics. Special Session organizers should collect at least eight papers, download the special session proposal template from the SMC 2020 website, and submit the completed proposal to the Special Sessions Chairs.

Industrial Papers

These contributions are intended to promote contributions from industries on technology development, innovations, and implementations, which will facilitate collaboration between industrial and academic members of the SMC community.

SMC Junior Papers

SMC 2020 is inviting students and juniors to submit short papers to promote their innovations and contributions in the different research and application fields within SMC, including work in progress and demonstration applications. These papers will not be included in IEEE Xplore.

Workshop Papers

These contributions are intended to promote contributions from applied research and applications, including work in progress, and facilitate increased collaboration between industrial and academic members of the SMC community. SMC 2020 will also host the BMI Workshop and the br41n.io BCI Hackathon.

Note: Accepted papers that are not physically presented at SMC 2020 will be excluded from the IEEE Xplore.



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