



Call for Papers

2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2020)

11-14 October, 2020, Metro Toronto Convention Centre (MTCC), Toronto, Ontario, Canada

MTCC - South Building, 222 Bremner Boulevard, Toronto, Ontario M5V 3L9, Canada

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The 2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2020) will be held in Metro Toronto Convention Centre (MTCC), Toronto, Ontario, Canada. 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	Human-Machine Systems	Cybernetics
Communications	Assistive Technology	Agent-Based Modeling
Conflict Resolution	Augmented Cognition	Artificial Immune Systems
Consumer/Industrial Applications	Brain-based Information Communications	Artificial Life
Control of Uncertain Systems	Design Methods	Biometric Systems and Bioinformatics
Cooperative Systems and Control	Entertainment Engineering	Computational Intelligence
Decision Support Systems	Human-Computer Interaction	Computational Life Science
Discrete Event Systems	Human Factors	Cybernetics for Informatics
Distributed Intelligent Systems	Human Performance Modeling	Evolutionary Computation
Enterprise Information Systems	Human-Machine Cooperation & Systems	Expert and Knowledge-Based Systems
Fault Monitoring and Diagnosis	Human-Machine Interface Web	Information Assurance & Intelligent
Intelligent Power Grid	Intelligence Interaction	Multimedia Computation
Smart Metering	Information Visualization	Heuristic Algorithms
Smart Cities	Information Systems for Design/Marketing	Hybrid Models of Neural Networks,
Smart Buildings and Infrastructures	Virtual and Augmented Reality Systems	Fuzzy Systems and Evolutionary
Infrastructure Systems & Services	Interactive and Digital Media	Computing
Homeland Security	Interactive Design Science & Engineering	Image Processing/Pattern Recognition
Intelligent Green Production Systems	Kansei (sense/emotion) Engineering	Fuzzy Systems and their applications
Intelligent Transportation Systems	Medical Informatics	Intelligent Internet Systems
Large-Scale System of Systems	Multimedia Systems	Knowledge Acquisition in Intelligent
Manufacturing Systems/Automation	Multi-user Interaction	Machine Learning
Mechatronics	Resilience Engineering	Machine Vision
Micro and/or Nano Systems	Supervisory Control	Media Computing
Quality/Reliability Engineering	Systems Safety and Security	Medical Informatics
Robotic Systems	Team Performance and Training Systems	Neural Networks and their Applications
Service Systems & Organizations	User Interface Design	Optimization
Smart Sensor Networks	Wearable Computing	Self-Organization
System Modeling and Control		Swarm Intelligence
Technology Assessment		

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Fakhri Karray, University of Waterloo
Pierluigi Siano, University of Salerno

Workshops Co-Chairs

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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
April 5, 2020	Deadline for submission of contributions for SMC Junior Papers
April 5, 2020	Deadline for submission of proposals for Tutorials and Workshop Sessions
April 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
May 24, 2020	Submission deadline for Workshop 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

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.

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