



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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Hossam A. Gabbar, University of Ontario Institute of Technology

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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 NN, Fuzzy Systems and Evolutionary Computing
Smart Buildings and Infrastructures	Virtual and Augmented Reality Systems	Image Processing/Pattern Recognition
Infrastructure Systems & Services	Interactive and Digital Media	Fuzzy Systems and their applications
Homeland Security	Interactive Design Science & Engineering	Intelligent Internet Systems
Intelligent Green Production Systems	Kansei (sense/emotion) Engineering	Knowledge Acquisition in Intelligent
Intelligent Transportation Systems	Medical Informatics	Machine Learning
Large-Scale System of Systems	Multimedia Systems	Machine Vision
Manufacturing Systems/Automation	Multi-user Interaction	Media Computing
Mechatronics	Resilience Engineering	Medical Informatics
Micro and/or Nano Systems	Supervisory Control	Neural Networks and their Applications
Quality/Reliability Engineering	Systems Safety and Security	Optimization
Robotic Systems	Team Performance and Training Systems	Self-Organization
Service Systems & Organizations	User Interface Design	Swarm Intelligence
Smart Sensor Networks	Wearable Computing	
System Modeling and Control		
Technology Assessment		

Industrial Track Co-Chairs

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

Workshops Co-Chairs

Chris Nemeth, Applied Research Associates, Inc.
Abdulmotaleb El Saddik, University of Ottawa

SMC WiE Co-Chairs

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Karen Panetta, Tufts University

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Tutorials Chair

Sam Kwong, City University of Hong Kong

Submission Chair

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Local Arrangements 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 and 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 and 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 Session Papers

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

Special Sessions

Special Sessions provide a focused discussion of new or innovative topics. Special Session organizers should collect at least five 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 categories of contributions are intended to promote contributions from industries on technology development, innovations, and implementations, which will facilitate the 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.

SMC Junior Papers

SMC2020 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 categories of 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.