#### **General Chair**

Anup Basu, Univ. of Alberta

#### **General Co-Chair**

Philip Chen, Univ. of Macau

## **Program Chairs**

Witold Pedrycz, Univ. of Alberta Irene Cheng, Univ. of Alberta

#### **Area Chairs**

Rodney Roberts, Florida State Univ. Jonathan Wu, Univ. of Windsor Andreas Nürnberger,Otto von Guericke Univ. Plamen Angelov, Lancaster Univ.

#### **Special Sessions Chairs**

Ljiljana Trajkovic, Simon Fraser Univ. Michael Smith, UC Berkeley **Special Sessions Co-chair** HideyukiTakagi, Kyushu Univ.

#### **Poster Sessions Chairs**

Kovács Levente, Obuda Univ. Sam Kwong, CityU of Hong Kong Jean-Yves Herve, Univ. of Rhode Island Xizhao Wang, Shenzhen Univ.

#### **Industrial Track Chairs**

Liu Qiao, 3M USA Haohong Wang, TCL America Tiago Falk, INRS Montreal

#### Late Breaking Papers Chair

Pradeep Atrey, Univ. of Albany Yaoping Hu, Univ. of Calgary Dmitry Goldgof, Univ. of South Florida Guillaume Lavoue, LIRIS, Lyon Lawrence Hall, Univ. of South Florida

#### **Workshops Chairs**

Abed El Saddik, Univ. of Ottawa Peter Liu, Carleton Univ.

### SMC Junior and WiE Chairs

Imre Rudas, Obuda Univ. Gina Tang, Rowan Univ. Gyorgy Eigner, Obuda Univ.

#### **Tutorials Chair**

Saeid Nahavandi, Deakin Univ.

#### **Exhibition and Donations Chair**

Jun Zhou, Griffith Univ.

#### **Awards Chair**

Mengchu Zhou, NJIT

#### **Publication/Submission Chair**

Xenophon Zabulis, ICS, Crete

#### Finance Chair

Lihang Ying, City of Edmonton

#### **Publicity Chair**

Mo El-Hawary, Dalhousie Univ. **Publicity Co-Chair**Haibin Zhu, Nipissing Univ.

#### **Registration Chair**

Yo-Ping Huang, Taipei Univ. of Tech

#### **Local Arrangements Chairs**

Sara Soltaninejad, Univ. of Alberta Housam Babiker, Univ. of Alberta









# SMC 2017 CALL FOR PAPERS



# 2017 IEEE International Conference on Systems, Man, and Cybernetics, October 5–8, 2017, Banff Center, Banff, Canada <a href="http://www.smc2017.org">http://www.smc2017.org</a>

The 2017 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2017) will be held in Banff Centre one of the most modern conference facility in North America, with majestic mountain view. SMC 2017 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 & 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 Intelligent Power Grid Smart Metering Infrastructure Systems & Services Homeland Security Intelligent Green Production 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 Sensor Networks System Modeling and Control

# **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 Virtual and Augmented Reality Systems 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

#### Cybernetics

Self-Organization

Swarm Intelligence

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 Information Assurance & Intelligent Multimedia Computation Heuristic Algorithms Hybrid Models of NN, Fuzzy Systems and Evolutionary Computing Image Processing/Pattern Recognition Fuzzy Systems and their applications Intelligent Internet Systems Knowledge Acquisition in Intelligent Machine Learning Machine Vision Media Computing Medical Informatics Neural Networks and their Applications Optimization

#### **Important Dates**

October 5-8, 2017

Technology Assessment

February 15, 2017
March 15, 2017
April 7, 2017
April 8, 2017
April 9, 2017
April 9, 2017
April 9, 2017
April 9, 2017
August 5, 2017
April 9, 2017
August 5, 2017
August 6, 2017
Aug

Wearable Computing

# Call for 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.

#### **Call for 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 2017 website, and submit the completed proposal to the Special Sessions Chairs.

#### **Call for Industrial Papers and Late Breaking Papers**

These categories of contributions are intended to promote 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 2017 will be excluded from the IEEE Xplore.