The biennial International Conference on Cybernetics (CYBCONF) provides a premier international forum for researchers and practitioners to report the latest innovations, summarize the state-of-the-art, and exchange ideas and advances in all aspects of Cybernetics. Apart of the main track it includes special sessions and plenary talks by invited eminent speakers.

CYBCONF-2017 is organized by University of Exeter, sponsored by IEEE Systems, Man, and Cybernetics Society (SMC), and supported by IEEE SMC Technical Committees on Cybermatics for Cyber-enabled Worlds, Awareness Computing, Intelligent Industrial Systems; and Distributed Intelligent Systems. CYBCONF-2017 will be hosted in Exeter, the capital city of Devon and provides the county with a central base for education, medicine, religion, commerce and culture. The city is also home to the magnificent Exeter Cathedral, which dates back to Norman times. Exeter is also ideally placed to base a trip to branch out visiting places such as the famous Dartmoor National Park and the unspoilt beaches of the North and South Devon coastlines.

Prospective authors are invited to submit their papers to CYBCONF-2017. Accepted papers will appear in the conference proceedings, available on IEEE Xplore and submitted to be indexed in CPCi (ISI conferences and part of Web of Science) and Engineering Index (EI). The authors of selected best papers will be invited post conference to extend their contributions for special issues of prestigious journals, such as IEEE Transactions on Cybernetics, IEEE SMC Magazine, Evolving Systems, and Peer-to-Peer Networking and Applications (PPNA).

SCOPE AND TOPICS

The topics of interest include all aspects of Cybernetics and its applications and are organized in the following topic areas (not limited to):

**Track 1: Cybernetics and Control Systems**
- Agent-Based Modeling and Simulation
- Artificial Immune Systems
• Bioinformatics
• Computational Intelligence
• Control Systems
• Evolutionary Computation
• Expert and Knowledge-Based Systems
• Fuzzy Systems and Applications
• Machine Learning
• Optimization
• Self-Adaptive and Evolving Systems
• Swarm Intelligence

**Track 2: Human-Machine Interaction and Systems**
• Cognitive Systems
• Brain Machine Interface
• Human-Computer Interaction
• Human-Machine Cooperation and Systems
• Human-Machine Interface and Communications
• Social Systems
• Supervisory Control
• User Interface Design
• Web Intelligence and Interaction
• Image Processing/Pattern Recognition
• Machine Vision
• Multimedia Computation

**Track 3: Systems Science, Engineering and Industrial Applications**
• Autonomous Systems
• Distributed Intelligent Systems
• Intelligent Power and Energy Systems
• Intelligent Transportation Systems
• Intelligent Vehicle Systems and Control
• Medical and Health Informatics
• Neural Networks and Applications
• Robotic Systems

**IMPORTANT DATES**

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**PAPER SUBMISSION GUIDELINE**

All papers need to be submitted electronically through the conference submission website (http://cse.stfx.ca/~CybConf2017/sub/) with PDF format. The materials presented in the papers should not be published or under submission elsewhere. Each paper is limited to 6 pages (or 8 pages with over length charge) including figures and references using IEEE Computer Society Proceedings Manuscripts style (two columns, single-spaced, 10 fonts). You can confirm the IEEE Computer Society Proceedings Author Guidelines at the following web page: http://www.computer.org/web/cs-cps/

Manuscript Templates for Conference Proceedings can be found at https://www.ieee.org/conferences_events/conferences/publishing/templates.html

Accepted papers will appear in the conference proceedings, available on IEEE Xplore and submitted to be indexed/abstracted in CPCi (ISI conferences and part of Web of Science) and Engineering Index. The
authors of selected best papers will be invited post conference to extend their contributions for special issues of prestigious journals.

JOURNAL SPECIAL ISSUES

Distinguished papers selected from the conferences and associated workshops, after further extensions, will be recommended for submission and publication in the following prestigious journals or their Special Issues:
- IEEE Transactions on Cybernetics
- IEEE SMC Magazine
- Evolving Systems (Springer)
- Peer-to-Peer Networking and Applications (Springer)