

# SMC 2017 CALL FOR PAPERS



2017 IEEE International Conference on Systems, Man, and Cybernetics,  
October 5–8, 2017, Banff Center, Banff, Canada

<http://www.smc2017.org>

## SPECIAL SESSION ON BIOLOGICAL SIGNALS CONTROLLED INTELLIGENT ROBOTS

### Motivation

Body-machine Interface (BMI) systems allow users to control external mechanical systems using their biological signals. The special session addresses a broad spectrum of topics ranging from intelligent robots acting as a servant, secretary, or companion to intelligent robotic functions such as intelligent wheelchair, exoskeleton, wearable robots, two wheeled balance transporter, multiple mode-based haptics, etc. Special attention should be given to the integration of robotics with intelligent control technology and biological signals, with the goal of developing new multi-dimensional robotic services. This includes intelligent control, cognitive computing, signal processing information integration in a unstructured environment, and cognitive modeling for human-robot interaction. The special session publishes original papers of innovative ideas and concepts, new discoveries and improvements, and novel applications and business models relevant to the field of human interaction robotics. Submission Manuscripts for a Special Session should NOT be submitted in duplication to any other regular or special sessions and should be submitted to SMC 2017 main conference online submission system on SMC 2017 conference website. All submitted papers of Special Sessions have to undergo the same review process (at least three completed reviews per paper). The technical reviewers for each Special Session paper will be members of the SMC 2017 Program Committee and qualified peer-reviewers to be nominated by the Special Session organizers. The special session is jointly organized by the IEEE SMC TC on Bio-mechatronic & Bio-robotics Systems.

### Important Dates

April 7, 2017 Initial Paper Upload  
May 25, 2017 Acceptance Notification  
July 9, 2017 Final Paper Upload

### Session Chairs

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