



## SMC 2017 SPECIAL SESSION CALL FOR PAPERS

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

### Machine Learning and Behavior Modeling for Effective Human-Agent Interactions

This session addresses the challenges and potential solutions in human-agent interactions. As artificial intelligence (AI) techniques such as machine learning (ML) become more advanced, intelligent agents are being used in increasingly complex environments: operationally in autonomous vehicle systems; and for modeling and simulation (M&S) applications such as computer generated forces (CGFs). The exhibited behavior of these intelligent agents and related transparency when interacting with their users becomes critical components for effective interactions. On one hand, modeling realistic behavior efficiently remains a great challenge for supporting military applications during training and experimentation activities. On the other hand, understanding users' capacity and limitation, interaction tools such as human machine interfaces, as well as behavior adaptation strategies, etc. is a key to optimizing human-agent interactions. Thus to address these challenges, the topics of this session include, but are not limited to the following: concepts, theories, methodologies, techniques, tools, implementations, investigations, evaluations, and future work in ML, CGFs, M&S, behavior modeling, command and control to simulation interoperability, autonomous systems, and human-agent interactions.

This special session seeks contributions including, but not limited to, the following topics: *Machine Learning, Agent-Based Modeling, Human-Agent Interaction, Human Performance Modeling, Human-Machine Cooperation and Systems, Simulation and Modeling, Computer-Generated Entities*

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#### Important Dates

April 7, 2017	Deadline for submission of contributions for Special Sessions
May 25, 2017	Acceptance notification for Special Session papers
July 9, 2017	Final camera-ready papers due for Special Sessions
August 5, 2017	Deadline for early registration
October 5-8, 2017	Conference dates

**Submission Policy:** Manuscripts for the Special Session should NOT be submitted in duplication to any other regular or special sessions; and should be submitted via the online submission system on the SMC 2017 website. Authors should use the templates provided at the SMC 2017 website to avoid incompatibility. All submitted manuscripts could not exceed 6 pages. Supplementary materials (e.g., video, etc.) can be uploaded for review, but will NOT be archived. All submitted manuscripts will be reviewed by the program committee members of SMC 2017. Only papers of SMC Conference quality will be accepted for presentation.