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Special Session Call for Papers

SMC2017 Special Session on **【Computational Awareness】**

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Introduction

Awareness is related to a system's ability to perceive, to feel, or to develop conscious experiences. For cybernetics the study of awareness is fundamental. Compared with other fields in cybernetics community, computational awareness (CA) concentrates on approaches to gain understanding of awareness, and technologies to model, realize, and implement aware systems. The ultimate goal of CA research is to build systems that are aware, that are more autonomous and more human-like. They will use context awareness to filter out irrelevant information to make the intelligent system efficient. This special session provides an opportunity for researchers from both academia and industry to present their latest work, discuss issues and share ideas with other researchers in the CA field. Topics of interest include, but are not limited to, the following:

Awareness theory:

- Awareness mechanism and modeling
- Awareness in machine learning algorithms
- Awareness in agent computing
- Awareness in ontology and semantics
- Intention/emotion awareness
- Behavior awareness

Awareness practice:

- Awareness in data mining and knowledge discovery
- Safety/security awareness
- Context/background awareness
- Awareness in medical application
- Power/energy awareness

Important Dates:

- April 7, 2017: Deadline for submission of full-length papers to special session.
- May 25, 2017: Acceptance/Rejection Notification.
- July 9, 2017: Final camera-ready papers due in electronic form.

Submission policy:

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 Session will undergo the same review process (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.