

# CALL FOR PAPERS



## IEEE CogSIMA™

08-11 April 2019,  
Luxor Hotel, Las Vegas, NV, USA

2019 IEEE Conference on Cognitive and  
Computational Aspects of Situation Management

[www.cogsima2019.org](http://www.cogsima2019.org)

### Where Cognitive Science meets Computer Science

The CogSIMA conference series provides an annual venue for presenting complex heterogeneous dynamical systems - of interacting humans, machines, computer agents and/or networks - whose individual and/or collective behavior depends on their situation awareness.

Examples of systems include command and control systems, disaster monitoring and recovery systems, human-robot teams, physical and cyber security situation awareness systems, intelligent transportation systems, health care medical situation control systems, and many others.

Common to these systems is the need to adequately perceive, reflect, act, and communicate according to the current situation and expected changes - both in the environment and within the systems themselves.

The CogSIMA conferences are aimed at researchers and practitioners from academia, industry and government, with a wide variety of backgrounds and experience including computer science, human factors, cognitive science, modeling and simulation, robotics, and systems engineering.

For questions concerning CogSIMA 2019 contact us at  
[admin@cogsima.org](mailto:admin@cogsima.org)

We look forward to seeing you in Las Vegas!



### Topics of Interest

*Situation sensing, perception, comprehension, prediction and truth maintenance*

*"Big Data" analysis, situation learning and knowledge acquisition*

*Social media processing for situation awareness*

*Cognitive information fusion*

*Integration of human and signal intelligence*

*Multi-agent situation awareness, situation control and decision support*

*Models of collaboration and emergent behavior in cognitive multi-agent systems*

*Situation recognition in autonomous vehicles*

*Situation assessment in Reinforcement Learning*

*Biologically-inspired computational models of situation management*

*Approaches to spatial and temporal reasoning, reasoning about goals, intentions and actions*

*Metrics and evaluation of performance of hybrid human-machine systems*

*Models of human-machine collaboration*

*Ontology-based computing, Context modeling and discovery*

*Systems, platforms and tools for situation awareness, situation control and decision support*

*System-level experiments and Application-specific research*

### Important Dates

**Submissions due: Dec. 23, 2018**

**Acceptance Notification: Feb. 8, 2019**

**Camera Ready due: Feb. 21, 2019**

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### Organizing Committee

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