

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

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*

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. 10, 2018

Acceptance Notification: Feb. 8, 2019

Camera Ready due: Feb. 21, 2019

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