# CALL FOR PAPERS

# IEEE CogSIMA™

**March 9-12, 2026,**
**Arizona State University**
**Tempe, Arizona USA**

*2026 IEEE Conference on Cognitive and Computational Aspects of Situation Management*

**www.2026.cogsima.org**

## Improved Situation Awareness in Theory and Application

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, human-AI teaming, 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** and **artificial intelligence**, **modeling and simulation**, **robotics**, and **systems engineering**.

*For questions concerning CogSIMA 2026 contact us at*
***admin@cogsima.org***

We look forward to seeing you in Tempe!

IEEE IEEE SMC Systems, Man, and Cybernetics Society

## Topics of Interest

*Sociotechnical studies, including test and evaluation of application-specific research*

*Conceptual framing of human-machine teams, including machines as fully-fledged teammates vs. tools, human- animal teaming analogs, and anthropomorphism*

*Cognitive architectures for human-machine teaming*

*Team performance metrics and measurement in human-machine systems*

*Expert to novice comparisons in human-machine systems*

*Human-machine relative task difficulty impacts on performance*

*Sequential decision making and impacts to human-machine performance*

*Quantitative modeling of social factors impacting human-machine decision dyads*

*Situation sensing, perception, comprehension, and prediction*

*"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 and of 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*

*Models of human-machine collaboration*

*Performance evaluation and metrics of human-machine systems including human-AI teaming*

*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

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| ***Submissions due:*** | ***Oct. 10, 2025*** |
| ***Acceptance notification:*** | ***Dec. 5, 2025*** |
| ***Camera Ready due:*** | ***Jan. 15, 2026*** |