

# 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*

[2026.cogsima.org](http://2026.cogsima.org)

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.**

In the spirit of CHART, the theme of this year's conference is Expanding the Situation Awareness Boundary. Some questions related to theme include: What is situation awareness? Does it have a boundary? What is it? How can we expand it? Should we?

*For questions concerning CogSIMA 2026 contact us at  
[admin@cogsima.org](mailto:admin@cogsima.org)*

We look forward to seeing you in Tempe!



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 and social media processing for situation awareness*

*Cognitive information fusion*

*Integration of human and signal intelligence, cyber-physical-social systems*

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

*Situation recognition in autonomous systems and autonomous vehicles*

*Situation assessment in Reinforcement*

*Learning and Deep Learning*

*Generative AI and Explainable AI for situation awareness and situated human-machine interaction*

*Cognitive Situation Management with Neuroergonomics and Brain-Machine interface*

*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

**Submissions due:**

**Oct. 24, 2025**

**Acceptance notification:**

**Dec. 15, 2025**

**Camera Ready due:**

**Jan. 15, 2026**

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