

CALL FOR PAPERS



IEEE CogSIMA™

04-07 May 2020,
University of Victoria,
British Columbia, Canada

2020 IEEE Conference on Cognitive and
Computational Aspects of Situation Management

www.cogsima2020.org

Where Cognitive Science meets Computer Science

The CogSIMA conference series provides the premier venue for discussing complex heterogeneous dynamical systems - of interacting humans, machines, and computer agents - whose collective behavior depends on their cognitive capabilities to comprehend, explain, predict and act upon the surrounding operational situations.

Adhering to its successful interdisciplinary tradition, CogSIMA 2020 will provide a stimulating forum for scientists and practitioners from diverse backgrounds to advance the field of cognitive situation management.

We aim to bring together researchers from computer science, artificial intelligence, human factors, cognitive science, modeling and simulation, robotics, systems engineering, and related areas to progress towards this ambitious goal.

Application areas include autonomous vehicles, command and control systems, disaster monitoring and recovery systems, human-robot teams, physical and cyber security situation awareness and cyber warfare systems, intelligent transportation systems, health care medical situation control systems, and many others.

For questions concerning CogSIMA 2020 contact us at
admin@cogsima.org

We look forward to seeing you in Victoria!



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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: Nov. 1, 2019

Acceptance Notification: Feb. 4, 2020

Camera Ready due: March 6, 2020

Organizing Committee

General Chair:

Scott Fouse,
Independent Consultant, USA

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