CALL FOR PAPERS
The 16th International Symposium on Autonomous Decentralized Systems (ISADS)

July 21-24, 2025   Tucson, Arizona, USA

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Co-Located with CISOSE 2025 https://conf.researchr.org/home/cisose-2025

Sponsored by: The Institute of Electrical and Electronics Engineers   IEEE Computer Society (pending approval)   International Federation for Information Processing

In Cooperation with: International Federation of Automatic Control   Object Management Group

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Scope

Large and complex systems have been widely implemented in the nowadays infrastructure. These systems can be found in telecommunications, smart cities, robotics, power sector, transportation, business, industry, among many others. Moreover, current technologies and the industry 4.0 have enable intelligent, autonomous, adaptable solutions that increase the complexity of the systems. Those systems have many components that must work coherently and safely, even in case of component failures. It demands control, information, and service systems complying on adaptive, reliable, and reusable technologies and applications. Autonomous Decentralized Systems (ADS), which behave as living systems comprised of largely autonomous and decentralized subsystems, have been successfully applied to fulfill the expected characteristics in such complex systems. The International Symposium on Autonomous Decentralized Systems (ISADS) has been the premier event in the past thirty years to have successfully addressed these challenges. ISADS 2025 aims to be the forum of the advancements and innovations in ADS concepts, technologies, applications, strategic issues, and other related topics. This year, the special topic is "Sustainable Technology and Business for ESG" in multidisciplinary domains. We invite research papers, student papers, workshop proposals, panel proposals, and tutorial proposals on, but not limited to, the following topics:

- Internet-of-Things, cyber-physical systems, reactive systems, distributed embedded systems
- Industry 4.0, internet plus, autonomous robotics, and transportation systems
- Ad-hoc networks, sensor networks, advanced network infrastructures, and internetworking
- Architecture-driven and model-driven development of distributed applications
- Assurance, fault tolerance, on-line expansion, on-line-maintenance, and resilience
- Autonomous and decentralized services, including service architecture, protocols, and collaboration
- Cloud computing, big data analysis, artificial intelligence, and augmented intelligence
- Distributed and collaborative development, and development infrastructure of high-quality software systems
- Heterogeneous distributed information/control systems, mobile agent/computer-supported cooperative works
- Modeling, simulation of autonomous services and service-oriented application composition
- Network and system security, safety, and blockchain applications
- Autonomous decentralized system applications in smart cities (energy, transportation, infrastructure)
- Autonomous decentralized system applications for sustainability (food systems, carbon neutral, quality of life)
- Novel applications, including e-business, e-commerce, and e-government; telecommunications; information service systems; manufacturing systems; real-time event management; office automation; railway systems; supply chains; environmental/emergency protection and disaster management; networked health and medical systems; intelligent home control; embedded systems for automotive and avionics applications; augmented reality

Information for Authors

Papers should describe original work and be 6 to 8 pages in length using the IEEE double-column conference paper format. Workshop paper should be of 5 to 6 pages in length. Papers should include: title, authors, affiliations, 150-word abstract and keywords. Please identify the contact author clearly, including name, address, telephone and email. At least one of the authors of each accepted paper must register and present the paper at ISADS 2025. Authors must submit their manuscripts electronically to the paper submission system at: https://www.

Important Dates

April 1, 2025: Paper submissions due.
May 10, 2025: Author's notification.
May 18, 2025: IEEE camera-ready copies of accepted papers.

Paper Submission Link (easychair)

Paper in PDF should be submitted to:
https://easychair.org/conferences?conf=isads2025
Please send your questions to one of the Program Chairs.