



# CALL FOR PAPERS

## The 13<sup>th</sup> International Symposium on Autonomous Decentralized Systems (ISADS)

March 22 - 24, 2017

Bangkok, Thailand

<http://ieeethailand.org/isads2017.php>

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### Scope

Opportunities and challenges for implementing highly complex, efficient, and dependable business and control systems have been steadily increasing, driven by the continuous growth in the power, intelligence, adaptiveness and openness of technologies and standards applied in computing, communication and control systems. Dynamically changing social and economic situations demand the next-generation of systems to be based on adaptive, reusable, and internet and Web-enabled technologies and applications. Such systems are expected to have the characteristics of living systems composed of largely autonomous and decentralized components. Such systems are called Autonomous Decentralized Systems (ADS). The International Symposium on Autonomous Decentralized Systems (ISADS) has been the premier events in the past twenty-six years to have successfully addressed these challenges. The 13<sup>th</sup> ISADS 2017 will continue to focus on the advancements and innovations in ADS concepts, technologies, applications strategic issues, and other related topics. The special topic for ISADS 2017 is "Technology and Business Innovation through Structure Change of Society and Life". We invite research papers, workshop proposals, panel proposals, and student papers on, but not limited to, the following topics:

- Internet of Things, cyber-physical systems, reactive systems, distributed embedded systems
- Industry 4.0, and autonomous robotics and transportation
- 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 and big data analysis
- Distributed and collaborative development, test and maintenance, and development infrastructure of high-quality software systems, cloud computing, and service-oriented architecture
- Heterogeneous distributed information / control systems, mobile agent / computer-supported cooperative works
- Modeling and simulation of autonomous services and service-oriented application composition
- Network and system security and safety
- Autonomous Decentralized System Applications in smart grids
- Autonomous Decentralized System Applications in railway engineering
- Novel applications, including e-business, e-commerce and e-government; telecommunications; information service systems; manufacturing systems; real-time event management; office automation; traffic and transportation control; supply chains; environmental/emergency protection; networked health and medical systems; intelligent home control; embedded systems for automotive and avionics applications

### Information for Authors

Papers should describe original work and be of 6 to 8 pages in IEEE double-column conference paper format. Workshop paper should be of length 5 to 6 pages. Papers should include: title, authors, affiliations, 150-word abstract and list of keywords. Please identify the contact author clearly, including name, position, mailing address, telephone and fax numbers, and email address. At least one of the authors of each accepted paper must register and present the paper at ISADS 2017. Authors must submit their manuscripts electronically following the instructions at the ISADS 2017 web site at: <http://ieeethailand.org/isads2017.php>

### Information for Workshop and Panel Organizers

Workshop and panel proposals should include: title, organizer affiliation, position, mailing address, telephone and fax numbers, email address, and a draft call-for-papers, including Chairs, committees and submission deadline. Workshop and Panel proposals must be e-mailed to the program chair, Dr. Thavatchai Tayjasananant ([thavatchai.t@chula.ac.th](mailto:thavatchai.t@chula.ac.th))

### Important Dates

June 15, 2016: Workshop proposals are due.

August 31, 2016 **September 25, 2016**: All papers and panel proposals are due.

November 15, 2016: Authors and panel organizers notified of acceptance.

December 31, 2016: Camera-ready copies of accepted papers and panelist position papers.

### General Information

For general information, visit the ISADS 2017 web site at: <http://ieeethailand.org/isads2017.php> or email the program chair, Dr. Thavatchai Tayjasananant ([thavatchai.t@chula.ac.th](mailto:thavatchai.t@chula.ac.th)) or [taytaycu@gmail.com](mailto:taytaycu@gmail.com)