



SIGSIM PADS

ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS)

CALL FOR PAPERS

2017 ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (ACM SIGSIM PADS)

May 24 - 26, 2017

Nanyang Technological University, Singapore

<http://www.acm-sigsim-pads.org>

Important Deadlines (tentative)

Regular Paper Submission:
January 8, 2017

Short Paper Submission:
February 1, 2017

Regular/Short Paper
Notification of Acceptance:
February 22, 2017

Regular/Short Paper Camera-
Ready Version:
March 23, 2017

Ph.D. Colloquium Submission:
March 1, 2017

Ph.D. Colloquium Notification
of Acceptance:
March 15, 2017

Author Registration Deadline:
April 8, 2017

Early Registration and Hotel
Deadline:
April 15, 2017

Organizing Committee

General Chairs:

Wentong Cai

Nanyang Technological University

Yong Meng Teo

National University of Singapore

Program Chairs

Philip Wilsey

University of Cincinnati

Kevin Jin

Illinois Institute of Technology

The ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (ACM SIGSIM PADS) continues its reputation for high quality papers. SIGSIM PADS is the flagship conference of ACM's Special Interest Group on Simulation and Modeling (SIGSIM).

The ACM SIGSIM PADS conference focuses on cutting-edge research that lies at the intersection of Computer Science and Modeling and Simulation (M&S). High quality papers are solicited in all aspects of M&S, including (but not restricted to) the following areas:

- Advanced modeling techniques, including reuse of models, new modeling languages, agent-based M&S, and spatially explicit M&S.
- Algorithms and methods for parallel or distributed simulation, including synchronization, scheduling, memory management, load balancing, and scalability issues.
- New simulation algorithms and techniques including hybrid simulation approaches, adaptive algorithms, approximations, GPU, FPGA and hybrid architecture acceleration.
- Modeling and simulation for big data and big data analytics
- Simulation infrastructure and security issues for large scale distributed and/or cloud based modeling and simulation
- Model and simulation persistence and recovery in the presence of hardware failures
- Integration of simulation with other IT systems, methods, and developments including simulation based decision-making, visual analytics, intelligent support in M&S, and simulation in cloud computing environments.
- Mechanisms for efficient design of experiments, including dynamic verification and validation of models, and automatic simulation model generation and initialization.
- M&S applied to manage and/or optimize operational systems and methodological challenges arising from these applications including online simulation, symbiotic simulation, dynamic data-driven application systems, real-time and embedded simulation, and emulation of real systems.
- Tools and techniques for interoperability and composability of simulations including emerging standards and service-oriented approaches.
- Case studies considering the application of new or advanced computational methods to applications of contemporary interest.

Regular Papers:

Papers must be prepared by using an official ACM Proceedings Format template provided at <http://www.acm.org/sigs/publications/proceedings-templates>. Papers must be written in English and should not exceed 12 pages. More details available at <http://www.acm-sigsim-pads.org/authorsInfo.htm#preparation>

Short Papers:

The ACM SIGSIM PADS organizing committee is soliciting short papers to be presented at the conference. Short papers can be up to 4 pages long, and should describe interesting, novel research that is in an early stage of development or position papers of interest to the community. All short papers will be fully reviewed and will be published in the conference proceedings and included in the ACM Digital Library. At least one author is required to attend the conference and present their work in a time slot of 10 to 15 minutes.

PhD Colloquium:

ACM SIGSIM PADS also invites students to take part in the PhD Colloquium and Poster Session at the 2017 ACM SIGSIM PADS. Travel awards are available for students taking part. More details available at <http://www.acm-sigsim-pads.org/PhDColloquiumAwardCall.htm>

AUTHORS TAKE NOTE: The official publication date is the date the proceedings are made available in the ACM Digital Library. This date may be up to *two weeks prior* to the first day of your conference. The official publication date affects the deadline for any patent filings related to published work. (For those rare conferences whose proceedings are published in the ACM Digital Library *after* the conference is over, the official publication date remains the first day of the conference.)