ACM SIGSIM PADS 2015 Call for Papers

June 15-17th 2015

University of Westminster

115 New Cavendish Street, London W1W 6UW

Deadline Extension: Full Papers are now due on March 15, 2015

Organizing Committee

Chair: Dr Simon J E Taylor, (Brunel University London).

Program chairs: Dr Navonil Mustafee (Exeter University) and Dr Young-Jun Son (University of Arizona)

Local chair: Dr Tamas Kiss (University of Westminster).

Publicity chair: Dr Steffen Strassburger (Ilmenau University of Technology, Germany)

Registration chair: Dr Anastasia Anagnostou (Brunel University London).

PhD Colloquium chair: Dr David Bell (Brunel University London).

Important Dates

Paper submission deadline (extended): March 15th 2015.

Notification of acceptance: April 1st 2015.
Camera Ready Copy deadline: April 30th 2015.
Work in progress paper submission: March 31st 2015.
Work in progress paper notification of acceptance: April 6th 2015.
PhD Colloquium

Hosted by the University of Westminster (founded as Britain's first polytechnic in 1838), the ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (ACM SIGSIM PADS) builds on 29 years of history and the reputation for high quality papers. This is the flagship conference of ACM's Special Interest Group on Simulation and Modeling (SIGSIM).

The ACM SIGSIM PADS conference focuses on the intersection of Computer Science and Modeling and Simulation (M&S). We are soliciting high quality papers 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 spatial M&S.
- Algorithms and methods for parallel or distributed simulation, including synchronization, scheduling, memory management, and load balancing.
- New simulation algorithms including hybrid simulation approaches, adaptive algorithms, and approximations, GPU, FPGA and hybrid architecture acceleration.
- 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 the grid or in the cloud.
- Mechanisms for efficient design of experiments, including dynamic verification and validation of models, and automatic simulation model generation and initialization.
- M&S applied to solve problems in difficult domains and methodological challenges arising from these applications including online and symbiotic simulation, real-time and embedded simulation, and emulation of real systems.
- Tools and techniques for interoperability of simulations, including emerging standards and service-oriented approaches.

Special Sessions will be organized on the following topics:
- Internet of Things and Simulation
- Cloud for PADS
- Hybrid Simulation

Work in Progress Papers will also be considered (up to 2 pages long, and should describe relevant work that is just getting underway, but would be expected to mature into a full PADS paper in subsequent years).

ACM SIGSIM PADS also invites students to take part in a **PhD Colloquium**. **Travel awards** are available for students taking part.

See the conference website (http://www.acm-sigsim-pads.org/) for details on paper formatting, the PhD Colloquium and Travel Awards. For paper submission please use EasyChair under the following URL:
https://easychair.org/conferences/?conf=2015acmsigsimpads.

submission: Feb 28th 2015. PhD Colloquium notification of acceptance: March 16th 2015.	All accepted papers will be included in the ACM SIGSIM PADS Proceedings and will appear in the ACM Digital Library subject to presentation of the paper at the conference. Selected papers will be considered for inclusion in a special issue of ACM TOMACS.