DS-RT 2009

13th IEEE/ACM International Symposium on Distributed Simulation and Real Time Applications
October 25-28, 2009, Singapore

DS-RT is intended to provide an international forum for the discussion and presentation of original ideas, recent results and achievements by researchers, students, and systems developers on issues and challenges related to distributed simulation and real-time applications. Authors are encouraged to submit both theoretical and practical results of significance. Demonstration of new tools/applications is very desirable. The scope of the symposium includes, but is not limited to:

- Paradigms, Methodology and Software Architectures for Large Scale Distributed and Real-Time Simulations (e.g. Parallel and Distributed Simulation, Multi-Agent Based Distributed Simulation, HLA/RTI, Web and Grid based Simulation);
- Paradigms, Modeling, Architecture and Environments for Large Scale Real-time Systems and Concurrent Systems with Hard and Soft Real-Time Constraints;
- Non-functional Properties of Distributed Simulation and Real-Time Systems (e.g. Dependability, Availability, Reliability, Maintainability, Safety, Security, Trustworthiness, QoS);
- Theoretical Foundations of Large Scale Real-Time and Simulation Models (e.g. Event Systems, Causality, Space-Time Models, Notions of Time, Discrete and Continuous Systems, Simulator Coordination);
- Simulation Studies at Large and Very Large Scale (e.g. Industrial, Commercial, Ecological and Environmental, Societal, Power and Energy, Pervasive and Ubiquitous Computing Systems);
- Performance and Validation of Large Scale and Distributed Simulations (e.g., Benchmarking and Analytical Results, Empirical Studies; DIS, HLA/RTI Studies);
- Languages and Tools, Development Environments, Data Interfaces, Network Protocols and Model Repositories that address Very Large Simulations;
- Data Distribution Management, Interest Management, Multi-resolution Modeling and Dead-Reckoning Mechanisms;
- Pervasive and Ubiquitous Computing Architectures and Applications that involve Simulations and/or adhere to Real-Time Constraints;
- Simulation based Virtual Environments and Mixed Reality Systems (e.g. Interactive Virtual Reality, Human Communication through Immersive Environments);
- Collaborative Virtual and Augmented Reality, Telepresence Systems and Shared Workspaces, Shared Interaction Spaces, Shared Object Manipulation;
- Visual Interactive Simulation Environments (e.g., Generic Animation, Visual Interactive Modeling, Interactive Computer Based Training and Learning; Scientific Visualization; High-End Computer Graphics);
- Design Issues, Interaction Designs, Human Computer Interaction Issues raised by Large Scale DS-RT Systems;
- Media Convergence (e.g. New Technologies, Media Theory, Real-Time considerations of Multi Modality, etc.);
- Innovative Styles of Interactions with Large Scale DS-RT Systems (e.g. Implicit, Situative and Attentive Interaction, Tangible Interaction, Embedded Interaction, etc.);
- Environmental and Emerging Simulation Challenges (e.g. Growth of Human Population, Climate Change, CO2, Health Care, Ecosystems, Sustainable Development, Water and Energy Supply, Human Mobility, Air Traffic, World Stock Markets, Food Supply Chains, Megacities, Global Wireless Communication, Privacy Preserving Access, etc.).

High-quality original papers are solicited. Papers must be unpublished and must not be submitted for publication elsewhere. All papers will be reviewed by Technical Program Committee members and other experts active in the field to ensure high quality and relevance to the conference.

Attendance by at least one author of accepted papers is mandatory. Papers should be written in English and should not exceed 10 pages (single-spaced) or 18 pages (double-spaced). No paper templates are provided in this phase and your own template may be used. Authors are encouraged to submit papers in electronic form, postscript, pdf, or Microsoft Word 6.0 (or higher) only.

Refer to the conference web page at:
http://www.cs.unibo.it/ds-rt2009/
For paper submission instructions and up-to-date information

Important Dates:

Paper Submission Deadline:
May 11, 2009

Notification of Acceptance:
June 22, 2009

Camera Ready Version:
July 20, 2009

Conference Dates:
October 25-28, 2009

General Co-Chairs:

Stephen John Turner
Nanyang Technological University, Singapore

David Roberts
University of Salford, UK

Program Co-Chairs:

Wentong Cai
Nanyang Technological University, Singapore

Abdulmotaleb El Saddik
University of Ottawa, Canada

Steering Committee Chair:

Azzedine Boukerche,
University of Ottawa, Canada