CALL FOR PAPERS – DEADLINE EXTENDED
Symposium on Theory of Modeling and Simulation -
DEVS Integrative M&S Symposium (DEVS 2010)

http://www.sce.carleton.ca/faculty/wainer/DEVS10

The purpose of this symposium is to provide a forum to discuss most recent advancements in Theory of Modeling and Simulation. The main focus is on theory of modeling, methodology, practice and tools, as well as lessons learned and challenges. The Symposium will focus on bridging different areas in the field of Theory of Modeling and Simulation, including formal modeling, model-checking, graph transformation, modeling methodologies and tools. It also provides an opportunity to exchange ideas with other SpringSim conference participants in different fields, including tracks co-located with the Symposium on High Performance Computer Simulation.

Topics of interest include (but are not limited to) the following:

- **Theory**
  - DEVS modeling methodology
  - Hybrid system modeling & integration of formalisms
  - Formal analysis and symbolic reasoning
  - Model Checking
  - Graph Transformations
  - Activity paradigm: Complex adaptive systems, tracking, awareness

- **Methodology**
  - Parallel & distributed simulators and simulations
  - Interoperability of simulators (grid, web services, etc.)
  - M&S Engineering
  - M&S-Based development methods

- **Practice and Lessons Learned**
  - Military systems and infrastructures
  - Real-time and embedded systems
  - High performance computing
  - Software-intensive/networked systems
  - Transportation and traffic systems
  - Ecological and environmental systems
  - Standards

- **Toolkits and environments**
  - Tools and libraries (DEVS, Petri Nets, Timed Automata, etc.)
  - Education aspects of Theory of Modeling and Simulation

Submission Procedures:
The conference committee will accept three types of papers submitted as a PDF file to the conference website (http://www.sce.org/springsim/submission) as listed below. Final version of all the papers must comply with the SCS conference format. All the submitted papers should be original and not have been submitted to other venues; they will be peer reviewed with respect to their quality, originality and relevance. The authors of the accepted paper must register in advance for inclusion of their paper in the conference proceedings. The authors of the accepted paper must register in advance for inclusion of their paper in the conference proceedings.

1. **Full manuscript**: 8 pages in final conference format. In addition to publication in the conference proceedings, they will be considered for best paper award and for possible inclusion in a Special Issue of the Simulation Journal (SCS). Full papers will be published both in hard copy and CD-ROM.
2. **Work in Progress**: Short papers up to 6 pages in final conference format.
3. **Short Papers**: Papers with industrial focus, military or government applications, and work-in-progress in abstract or short paper format.

All papers will be included in the conference proceedings and archived in both the ACM Digital Library. Full Papers will be also printed in hard copy.

**DEV 2010 Organizing committee**

**Advisory Board**:
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**Program Chair**: Mamadou K. Traoré, Université Blaise Pascal, Clermont-Ferrand, France

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**Important Dates**:

- **Abstract submission** (MANDATORY): 7 Nov 2009
- **Paper Submission**: 21 Nov 2009
- **Notification**: 15 Dec 2009
- **Final Paper**: 25 Jan 2010

**DEV 2010 Award**
This year, the Symposium will hold the first Bernard P. Zeigler DEVS M&S Award, to recognize high-impact innovations in M&S methods, applications and tools. Further details can be found in the conference webpage.
DEVS 2010 International Technical Program Committee

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  - José Luis Risco-Martín, Universidad Complutense de Madrid, Spain
  - Mamadou Seck, TU Delft, Netherlands
  - Yujing Wu, The MathWorks, USA

• Toolkits and environments
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  - Claudia Frydman, LSIS, Marseille, France
  - Xiaolin Hu, Georgia State University, USA
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