CALL FOR PAPERS
Symposium on Theory of Modeling and Simulation (TMS/DEVS 2012)
March 26-29, 2012 – The Florida Hotel, Orlando, Florida (USA)

http://www.tms-devs.org

The purpose of this symposium is to provide a forum to discuss recent advancements in Theory of M&S. The main focus is on theory of modeling, methodology, practice and software to cope with the challenges arising out of these, as well as lessons learned and challenges. The Symposium bridges different areas in the field of theory of M&S, including formal modeling, model-checking, graph transformation, modeling methodologies. Topics of interest include (but are not limited to):

- **Theory**
  - DEVS, Petri-nets, Finite State Machines, Timed Automata, Process Algebras, Queueing Networks, etc.
  - Hybrid system modeling and integration of formalisms
  - Formal analysis and symbolic reasoning
  - Model Checking
  - Graph and Model Transformations
  - Activity paradigm: Complex adaptive systems, tracking, awareness

- **M&S Software**
  - M&S Software, including frameworks and libraries for DEVS, Petri Nets, Finite State Machines, Timed Automata, Process algebras, Queueing Networks, etc.
  - Education aspects of Theory of M&S

- **Methodology**
  - Parallel & distributed simulators and simulations
  - Interoperability simulators (grid, cloud, 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
  - Cloud and service-oriented computing
  - Software-intensive/networked systems
  - Transportation and traffic systems
  - Ecological and environmental systems
  - Systems-of-systems and ultra large scale systems
  - Standards

**Submission Procedures:**
The conference committee accepts three types of papers submitted as a PDF file to the conference website (http://www.csconf.com/scs/DEVS12) as listed below. The final version of all the papers must comply with the SCS conference format. All papers must be original and not submitted to other venues; they will be peer reviewed with respect to their quality, originality and relevance. The authors of an 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 digital format.

2. **Short Papers:** Papers with industrial focus, military or government applications, and work-in-progress in short paper format. Short papers are up to 6 pages in final conference format.

All papers will be included in the proceedings and archived in the IEEE CS DL, the ACM DL, and the EUDL.

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