

Journal of Telecommunication and Information Technology
Issue on:

High performance modeling and simulation
(HPMS)

Call for Papers

Modeling and simulation are the two sides of a key approach to the evaluation of reality. Modern computing architectures, that scale from distributed systems to cloud, provide an unprecedentedly amount of computing power and memory, that potentially pave the way to more extended, more accurate, more complex simulation scenarios and to the implementation of new techniques. Obviously, harvesting such an amount of power requires proper software approaches, and improved algorithms, capable of managing with the required synchronizations and in general with the distribution.

On the other side, simulating complex architecture such as Big Data, cloud or other systems otherwise characterized by special architectural requirements (e.g. cyberphysical computer based systems) is an open research topic, as new approaches and new techniques are needed to profitably cope with the simulation of high scale or special computer based systems. Of course, an important support is provided by analytical contributions to the evaluation of systems, that provide complementary tools and alternatives to simulation.

This special issue calls for theoretical contributions and applications that focus on high performance simulations or simulation of high performance systems, including analytical approaches.

Recommended topic areas include, but are not limited to:

- Theoretical advances on simulation of high scale and special systems
- Large scale applications of simulation
- Performance modeling of high scale and special systems
- Highly distributed simulation frameworks
- On line simulation
- Real time simulation
- High Performance Computing
- Applied methodologies and approaches for the evaluation of architecturally complex computer systems
- Analytical methods for simulation support
- Stochastic and probabilistic approaches

Submission

The submitted papers must be original and must not be under consideration in any other venue. This special issue is open for any submissions, but the main target audience will be the papers accepted on the High Performance Modeling and Simulation (HiPMoS 2016, <http://www.dem.unina2.it/hipmos>) organized in

conjunction with 30th edition of the European Conference on Modelling and Simulation (ECMS 2016, <http://www.scs-europe.net/conf/ecms2016>).

Authors should prepare their manuscript according to the standards of Journal of Telecommunications and Information Technology. Authors should visit the journal page for instruction for preparing the manuscript, and submit the paper via EasyChair using the following link <https://easychair.org/conferences/?conf=jtit2017>
All submissions will be reviewed by at least two independent reviewers. The editors will approve final decisions on accepted papers.

Tentative schedule

Manuscript Due	October 10 st , 2016
First Decision Date	November 15 st , 2016
Revision Due	December 15 th , 2016
Final Decision Date	January 15 th , 2016
Publication	March 31 st 2017

Guest Editors

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