



# High Performance Modeling and Simulation

May 22<sup>nd</sup> – 25<sup>th</sup>, 2018, Wilhelmshaven, Germany

to be held under the framework of

**The 32<sup>nd</sup> European Conference on Modeling and Simulation**

## Call for Papers

### Scope and Description

The aim of High Performance Modeling and Simulation (HiPMoS) is to present innovative academic and industrial research, methods, and techniques related to all aspects of modelling and simulation that employ high-performance computing technologies. Contribution can range from concepts and theoretical developments to advanced technologies and innovative applications. Topics of interest for the workshop include but are not limited to the following:

- Modelling, simulation, analysis and (generalized) performance evaluation of Large and very large scale distributed and parallel computing systems, Complex computer based systems, Cyberphysical systems, Mobile systems, Real time systems, Dependable systems, Critical systems, Hybrid systems, Information and Telecommunication systems, High performance networks, Intelligent networks, Industrial systems, Big Data applications;
- Quantitative evaluation techniques related to Performance, Dependability, Security, Survivability, Safety, Real time constraints, Cost, Energy-efficiency and combined aspects like performance-security tradeoffs;
- Theory of Multiformalism and Multiparadigm modeling and applications to Distributed systems, Complex computer based systems, Critical systems, Hybrid systems, Cyberphysical systems;
- Advances and advanced applications in Cloud, Grid and Data Intensive Computing and Data Mining, Social Networks, Security Awareness and Energy Effectiveness in Distributed Data and Information Management, Parallel and Distributed Meta- and Hyper-Heuristics, e-Health large scale systems, Large parallel and distributed multi-agent systems, Intelligent scheduling, Resource allocation and management in P2P, Grid, Cluster, Cloud, Edge computing and Big Data oriented systems, Biologically inspired modeling and simulation;
- Queueing systems, stochastic Petri nets, stochastic process algebras, Markov chains, non-Markovian models, fluid models, network calculus;
- Statistical methods for the analysis of information systems.



### Chairs:

**Mauro Iacono**

Università degli Studi della Campania "Luigi Vanvitelli", Italy

**Agnieszka Jakóbiak**

Cracow University of Technology, Poland

**Rostislav Razumchik**

Institute of Informatics Problems, FRC CSC RAS, Russia

### Honorary Chair:

**Joanna Kolodziej**

Cracow University of Technology, Poland

### Track Chairs and Program Committee:

Please refer to the HiPMoS web page:

<http://www.hipmos.unicampania.it>

*We will appreciate if perspective authors will help the management of HiPMoS by submitting a declaration of interest in PDF with the title and a short abstract (1 page) of their work before January 10, 2018 by email to [mauro.iacono@unicampania.it](mailto:mauro.iacono@unicampania.it) or [agneskrok@gmail.com](mailto:agneskrok@gmail.com) or [razumchik\\_rv@rudn.university](mailto:razumchik_rv@rudn.university) with subject hipmos2018.*

*Paper submission deadline: February 2, 2018*

HiPMoS collaborates with ICT COST Action IC1406 High-Performance Modelling and Simulation for Big Data Applications (cHiPSet)

[www.chipset-cost.eu](http://www.chipset-cost.eu)

## Post Conference Publications

The authors of the best papers will be invited to submit their work to fast track sections of peer reviewed high quality journals.