

## 2015 Spring Simulation Multi-Conference (SpringSim 2015)

April 12 - 15, 2015 | Alexandria, USA

**\*\* Call For Papers \*\***



## High Performance Computing Symposium 2015 (HPC'15)

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Program Chair: **Masha Sosonkina**, [masha@scl.ameslab.gov](mailto:masha@scl.ameslab.gov)  
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The 2015 Spring Simulation Multiconference will feature the 23rd High Performance Computing Symposium (**HPC 2015**), devoted to the impact of high performance computing and communications on computer simulations.

Advances in multicore and many-core architectures, networking, high end computers, large data stores, and middleware capabilities are ushering in a new era of high performance parallel and distributed simulations. Along with these new capabilities come new challenges in computing and system modeling. The goal of HPC 2015 is to encourage innovation in high performance computing and communication technologies and to promote synergistic advances in modeling methodologies and simulation. It will promote the exchange of ideas and information between universities, industry, and national laboratories about new developments in system modeling, high performance computing and communication, and scientific computing and simulation.

### Topics

- High performance/large scale application case studies
- GPU for general purpose computations (GPGPU)
- Multicore and many-core computing
- Power aware computing
- Cloud, distributed, and grid computing
- Asynchronous numerical methods and programming
- Hybrid system modeling and simulation
- Large scale visualization and data management
- Tools and environments for coupling parallel codes
- Parallel algorithms and architectures
- High performance software tools
- Resilience at the simulation level
- Component technologies for high performance computing

### Submission Guidelines

Prospective authors are invited to submit full papers (up to 8 pages, double column format) on topics related to the areas listed above. Submission of an abstract is not compulsory, yet authors who submit an abstract will receive a quick feedback by the symposium chairs for their full paper submission.

Submissions will be evaluated on relevance, technical quality, and exposition. Papers must not have appeared before (or be pending) in a journal or conference with published proceedings, nor may they be under review or submitted to another forum during the HPC 2015 review process. All accepted papers will be published in the proceedings as regular papers. Abstract and papers should be submitted electronically using the [SpringSim paper submission system for HPC 2015](#).

Papers must use SCS format. ([Formatting instructions](#))

At least one author of an accepted paper must register for the symposium and must present the paper at the symposium

### **Tutorial, Panels and Special Sessions**

Proposals for tutorials, panels, and special sessions are welcome; submit such proposals to the general or program chairs by October 25, 2014. Early submissions are appreciated.

### **Best Paper Award**

At least one paper from each symposium will be chosen for a Best Paper Award, which will be recognized in an awards ceremony before a plenary lecture.

### **Program Committee**

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