

The 2nd International Workshop on High Performance Computing for Advanced Modeling and Simulation in Nuclear Energy and Environmental Science

HPCMS 2018

June 12, 2018, Beijing, China

in conjunction with

ICS 2018: The 32nd ACM International Conference on Supercomputing

Workshop Goals

HPCMS18 focuses on innovative mathematical modeling, parallel algorithms, high-performance computing tools and virtualization. It aims at bringing together different researchers from applied mathematics, computer science, HPC, materials science, hydrology, etc., to address the interdisciplinary issue on multi-physics modeling methods and parallel algorithms. Equally important is to perform simulations efficiently on high-performance computing systems.

Topics of Interest

- Data-driven mathematics and physical modeling for parallel simulations
- Advanced numerical methods
- Material performance simulation and optimization
- Multi-scale and multi-physics simulation
- High-performance MOC for neutron transport
- Advanced Monte Carlo method for neutron transport
- Computational fluid dynamics in thermal hydraulics
- Applied and computational mechanics
- Nuclear fuel performance simulation
- Performance optimization of virtual reactors
- Deep learning in virtual reactors
- Validation and uncertainty quantification
- Virtual operating environment
- Parallel techniques and hybrid programming
- Performance modeling and auto-tuning methods
- Scalable algorithms and advanced computational techniques
- Collaborative computing models of computation and data
- Interactive models of parallel and distributed systems
- High-performance virtual dataspace
- Performance of virtual domain data centers
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Important Dates

Abstract Submission:	March 1st, 2018 AOE
Paper Submission:	March 9th, 2018 AOE
Author Notification:	April 9th, 2018 AOE
Camera-Ready Copy:	May 1st, 2018 AOE
Workshop Dates:	June 12th, 2018 AOE

Call for Papers

Papers should be prepared in the LNCS/CCIS one-column page format of the Springer conference paper templates. Full papers are limited to 12-15 pages. Short papers are limited to 6-8 pages.

Please submit your papers in PDF or doc format via the EasyChair conference system:

<https://easychair.org/conferences/?conf=hpcms2018>

More

If you have any questions, please e-mail them to

wangan@xs.ustb.edu.cn

See more information about HPCMS 2018 at

<http://hpcms18.hpc.gensh.me/>



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Call for Papers