CALL FOR PAPERS

Ninth International Workshop on Advances in High-Performance Computational Earth Sciences: Applications and Frameworks (IHPCES 2019)

in conjunction with International Conference on Computational Science (ICCS 2019) in Faro, Algarve, Portugal, from June 12-14, 2019

https://www.cspp.cc.u-tokyo.ac.jp/IHPCES2019/

Goal of IHPCES

The objective of this series of workshops is to provide a forum for presentation and discussion of state-of-the-art research in high performance computational earth sciences. IHPCES workshops foster communication between Earth scientists, applied mathematicians, and computer scientists. The workshop therefore presents a unique opportunity to exchange advanced knowledge, computational methods, and science discoveries in computational geosciences.

Specific topics of interest include, but are not limited to

- Large-scale simulations on supercomputing systems in earth sciences
- Advanced modeling and simulations on natural disaster prevention and mitigation
- Advanced numerical methods for high performance computational earth sciences
- Parallel and distributed algorithms and programming strategies for supercomputers
- Software engineering for parallel systems with multi-core processors and accelerators
- Algorithms for Big Data analytics and applications for large-scale data processing
- Methodologies and tools designed for extreme-scale computing

All accepted papers will appear in the conference proceedings of ICCS2019, published by Springer in its LNCS series.

Important Dates (tentative)

- Full papers submission due (up to 14-pages in Springer LNCS format)   **February 17, 2019**
- Notification of acceptance of papers   March 15, 2019
- Camera ready papers due   April 5, 2019

IHPCES 2019 co-chairs (contact)

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Program committee

- Hideo Aochi - Bureau de Recherches Geologiques et Minieres, France
- Joern Behrens - University of Hamburg, Germany
- Xing Cai - Simula Research Laboratory/University of Oslo, Norway
- Yifeng Cui - San Diego Supercomputer Center, USA
- Takashi Furumura - Universuty of Tokyo, Japan
- Lutz Gross - University of Queensland, Australia
- Alexander Heinecke - Intel, USA
- Johannes Langguth - Simula Research Laboratory, Norway
- Osni Marques - Lawrence Berkeley National Laboratory, USA
- Hiromichi Nagao - The Universuty of Tokyo, Japan
- Kengo Nakajima - The University of Tokyo, Japan
- Kenji Ono - Kyushu University, Japan
- Olaf Schenk - Universita della Svizzera Italiana, Switzerland
- Osamu Tatebe - University of Tsukuba, Japan
- Peng Wang - NVIDIA, USA
- Mei Wen - National University of Defense Technology, China
- Huilin Xing - University of Queensland, Australia

We are looking forward to your contributions to IHPCES 2019.