

International Conference on Computational Science, ICCS 2011

## Preface

Mitsuhisa Sato<sup>a</sup>, Satoshi Matsuoka<sup>b</sup>G. Dick van Albada<sup>c</sup>, Jack Dongarra<sup>d</sup>, Peter.M.A. Sloot<sup>c</sup><sup>a</sup>*University of Tsukuba, Japan*<sup>b</sup>*Tokyo Institute of Technology, Japan*<sup>c</sup>*University of Amsterdam, The Netherlands*<sup>d</sup>*University of Tennessee, USA*

First of all, we would like to express our deep sympathy with the people in East-Japan that were stricken by the catastrophic earthquake on March 11<sup>th</sup>, 2011, and its aftermath. Due to the continuing uncertainty about the situation in Japan, we had to make a decision to move this conference from Tsukuba, Japan to Nanyang Technological University, Singapore. We would like to thank our colleagues who understand this situation about the change of the venue, and Dr. Lees who has helped to organize the conference in the beautiful campus of Nanyang Technological University in Singapore.

The International Conference on Computational Science aims to bring together annually researchers and scientists from mathematics and computer science as basic computing disciplines, researchers from various application areas who are pioneering advanced application of computational methods to sciences such as physics, chemistry, life sciences, and engineering, arts and humanitarian fields, along with software developers and vendors, to discuss problems and solutions in the area, to identify new issues, and to shape future directions for research, as well as to help industrial users apply various advanced computational techniques.

ICCS 2011 will be the eleventh in this series of highly successful conferences. For the previous ten very successful meetings see: <http://www.iccs-meeting.org/iccs2011/previous-iccs.html>

The theme for ICCS 2011 is "The Ascent of Computational Excellence", to mark the ever-increasing importance of and progress in computational science theory and practice. The conference will be a unique event focusing on recent developments in methods and modeling of complex systems for diverse areas of science, scalable scientific algorithms, advanced software tools, computational grids, advanced numerical methods, and novel application areas where the above novel models, algorithms and tools can be efficiently applied such as physical systems, computational and systems biology, environmental systems, finance, and others.

For this great event, we have invited world leading keynote speakers to give their current and future vision of Computational Science.

- Michele Parrinello, ETH Zürich
- Andrew Chien, University of California, San Diego
- Akira Ukawa, Center for Computational Sciences and Institute of Physics, University of Tsukuba
- David Srolovitz, Institute of High-Performance Computing, National University of Singapore
- Chris Barrett, Virginia Tech

Besides our excellent keynote speakers, out of the submitted papers to main track and workshops, we selected about 220 high-quality papers for presentation at the conference and publication in the proceedings, published by Elsevier in their new Procedia Computer Science series.

For ICCS 2011, about 580 papers were submitted in total, from numerous countries. ICCS 2011 had 28% of the submitted papers accepted for its Main Track. Workshops rely on direct invitation of topic specific authors; therefore in this case there is already a pre-selection of potential authors, resulting in a much higher acceptance rate. For ICCS 2011 this was: 41%.

ICCS relies strongly on the vital contributions of our workshop organizers to attract high quality papers in many subject areas. We would like to thank all committee members for the main track and the workshops for their contribution to ensure a high standard for the accepted papers.

We are proud to note that ICCS is an ERA 2010 A-ranked conference series.

Finally, we are deeply concerned that this severe situation is continuing in East-Japan. We hope that the Japanese people will together step forward to overcome this tragic disaster and walk the path toward recovery.

June 2011,

The ICCS 2011 Organizers,  
Mitsuhsa Sato  
Satoshi Matsuoka  
Peter M.A. Slood  
G. Dick van Albada  
Jack Dongarra

### Local organising committee in Japan



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### Local organising committee at NTU Singapore

Prof. Dr. Steve Turner  
Dr. Michael Lees

### Sponsors

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| Elsevier B.V.   |  |
| Center for computational Sciences<br>University Tsukuba |  |

### Workshop organizers

#### Simulation of Multiphysics Multiscale Systems, 8th International Workshop

V.V. Krzhizhanovskaya, University of Amsterdam, The Netherlands

#### 2nd Workshop on Computational Optimization, Modelling and Simulation (COMS 2011)

X.S. Yang, National Physical Lab, UK; S. Koziel, Reykjavik University, Iceland; L. Leifsson, Reykjavik University, Iceland

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