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Recent Advances in Computational Science and Engineering Research[☆]

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The city of Porto in Portugal hosted in October 21-23, 2015, the 18th IEEE International Conference on Computational Science and Engineering (CSE 2015). CSE is a long standing and well established conference with wide acceptance in the field, sponsored by the IEEE, IEEE Computer Society and the IEEE Technical Committee on Scalable Computing (TCSC).

The Computational Science and Engineering area has earned increased relevance due to advances in electronic and integrated technologies since the 1940s. Currently, it is a very active domain, and we expect the near future to witness a proliferation in the use of various advanced computing systems. More and more, CSE is regarded as an emerging and promising discipline in shaping future research and development activities in academia and industry. These encompass engineering, science finance, economics, arts and humanitarian fields, in particular as a solution to very large and highly complex problems, more so when faced with tight timing schedules.

CSE is the natural venue to bring together academics, industrial engineers, and researchers to discuss and exchange experimental and theoretical results, novel designs, work-in-progress, experience, case studies, and trend-setting ideas in the areas of advanced computing for problems in science and engineering applications and inter-disciplinary fields. For this, a number of relevant and active research topics in the CSE domaine were addressed by dedicated program tracks on: Intelligent and Bio-inspired Computing; Scientific and Engineering Computing; Big Data Analytic, Cluster; Grid, P2P and Cloud Computing; Computational Social Systems; Mobile Computing and Wireless Communications; CSE Education; Embedded and Ubiquitous Computing; Advanced Networking and Applications; Security, Privacy and Trust; Service and Internet Computing; Distributed and Parallel Computing; and Dependable, Reliable and Autonomic Computing.

From the successful conference and the high quality programme, the Program Committee, Organizing Committee and the Steering decided to propose a Special Edition to the Journal of Computational Science, drawing from a set of invited best papers presented at this CSE edition, requiring further enhancements, substantial novel content and additional rounds of revision. The Special Issue also welcomed papers from other non-CSE authors.

[☆]Editorial to the Special Issue on selected, revised and extended papers of the IEEE CSE 2015 conference.

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