Preface

These proceedings contain the papers presented at the 2016 IFIP International Conference on Network and Parallel Computing (NPC 2016), held in Xi'An, China, during October 28–29, 2016. The goal of the conference was to establish an international forum for engineers and scientists to present their ideas and experiences in network and parallel computing.

A total of 99 submissions were received in response to our Call for Papers. These papers originate from Australia, Asia (China, Japan), and North America (USA). Each submission was sent to at least three reviewers. Each paper was judged according to its originality, innovation, readability, and relevance to the expected audience. Based on the reviews received, a total of 19 papers were retained for inclusion in the proceedings. Among the 19 papers, 12 were accepted as full papers for presentation at the conference. We also accepted seven papers as short papers for a possible brief presentation at the conference. We accepted another ten papers for a poster session (but without proceedings). Thus, only 19 % of the total submissions could be included in the final program, and 29 % of the submitted work was proposed to be presented at the conference.

The topics tackled at this year's conference include resource management, in particular solid-state drives and other non volatile memory systems; resiliency and reliability; job and task scheduling for batch systems and big data frameworks; heterogeneous systems based on accelerators; data processing, in particular in the context of big data; and more fundamental algorithms and abstractions for parallel computing.

We wish to thank the contributions of the other members of the Organizing Committee. We thank the publicity chairs, Xiaofei Liao, Cho-Li Want, and Koji Inoue, for their hard work to publicize NPC 2016 under a very tight schedule. We are deeply grateful to the Program Committee members. The large number of submissions received and the diversified topics made this review process a particularly challenging one.

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