

Preface

The Third Russian Supercomputing Days Conference (RuSCDays 2017) was held September 25–26, 2017, in Moscow, Russia. It was organized by the Supercomputing Consortium of Russian Universities and the Federal Agency for Scientific Organizations. The conference was supported by the Russian Foundation for Basic Research and our respected platinum educational partner (Intel), platinum sponsors (T-Platforms, NVIDIA, RSC), gold sponsor (Mellanox), and silver sponsors (Almaz-SP, Atos, Dell EMC, IBM, Xilinx). The conference was organized in a partnership with the ISC High-Performance conference series and the NESUS project.

The conference was born in 2015 as a union of several supercomputing events in Russia and quickly became one of the most notable Russian supercomputing meetings. The conference caters to the interests of a wide range of representatives from science, industry, business, education, government, and students – anyone connected to the development or the use of supercomputing technologies. The conference topics cover all aspects of supercomputing technologies: software and hardware design, solving large tasks, application of supercomputing technologies in industry, exaflops computing issues, supercomputing co-design technologies, supercomputing education, and others.

All papers submitted to the conference were reviewed by three referees in the first review round. The papers were evaluated according to the quality of relevance to the conference topics, scientific contribution, presentation, approbation, and related works description. After notification of the conditional acceptance of a paper, the second review round was arranged. It was aimed at the final polishing of papers and also at evaluating the authors work after the referees' comments. After the conference, the final selection was made, and the 42 best works were carefully selected to be included in this volume.

The proceedings editors would like to thank all conference committee members, especially the Organizing and Program Committee members as well as other referees and reviewers for their contributions. We also thank Springer for producing these high-quality proceedings of RuSCDays 2017.

October 2017

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Supercomputing

Third Russian Supercomputing Days, RuSCDays 2017,

Moscow, Russia, September 25–26, 2017, Revised

Selected Papers

Voevodin, V.; Sobolev, S. (Eds.)

2017, XVI, 532 p. 232 illus., Softcover

ISBN: 978-3-319-71254-3