

Preface

The 9th Russian Supercomputing Days Conference (RuSCDays 2023) was held during September 25–26, 2023. The conference was organized by the Supercomputing Consortium of Russian Universities, the Russian Academy of Sciences, and the Moscow Center of Fundamental and Applied Mathematics. The conference organization coordinator was the Moscow State University Research Computing Center. The conference was supported by platinum sponsors (Cloud.ru, RSC, AMD Technologies, and E-Flops) and silver sponsors (Norsi-Trans and Forsite).

To make the event as safe as possible, the conference was held in a hybrid way, combining offline and online sessions. Every offline session was also available online for remote attendees. There were also several online-only sessions.

RuSCDays was born in 2015 as a union of several supercomputing event series in Russia and quickly became one of the most notable Russian supercomputing international meetings. The conference caters to the interests of a wide range of representatives from science, industry, business, education, government, and academia – 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-scale computing issues, supercomputing co-design technologies, supercomputing education, and others.

All 104 papers submitted to the conference were reviewed by three referees in the first review round. During single-blind peer reviewing, the papers were evaluated according to their relevance to the conference topics, scientific contribution, presentation, approbation, and related works description. After notification of conditional acceptance, a second review round was arranged which aimed at the final polishing of papers and also at the evaluation of authors' work following revision based on the referees' comments. After the conference, the 45 best papers were carefully selected to be included in this volume.

The proceedings editors would like to thank all the conference committee members, especially the Organizing and Program Committee members as well as the referees and reviewers for their contributions. We also thank Springer for producing these high-quality proceedings of RuSCDays 2023.

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Vladimir Voevodin
Sergey Sobolev
Rashit Shagaliev
Mikhail Yakobovskiy