



Stochastic
Modeling &
Applied
Research of
Technology

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Preface

Stochastic modeling and applied probability continue to be a hot topic in the theoretical computer science and applied mathematics domain. For various technical systems, such as high performance, distributed and quantum computing and communications systems, networks, healthcare applications, the methods of applied probability, statistics, stochastic simulation and computations provide qualitative and quantitative results in effort to achieve goals of high practical value.

The Fourth International Workshop on Stochastic Modeling and Applied Research of Technology (SMARTY 2024) was held in Petrozavodsk, Karelia, one of the beautiful places in the North-West Russia, on August 26-30, 2024.

SMARTY workshop aims to bring together researchers working on the theoretical, algorithmic and methodological aspects of queueing theory, stochastic modeling and applied probability, focusing on applications of such methods across a broad spectrum of technical systems with primary interest in high-performance and distributed computing systems and, recently, modern computing trends such as quantum computing. Special accent of 2024 event was made on reliability. Out of 42 talks in total, 4 full papers were processed into proceedings. The accepted papers cover various topics within applied probability and discrete mathematics.

We thank the authors, invited and keynote speakers for the submissions as well as for their contribution which have made the Workshop useful and successful in all respects. We thank the Organizing Committee and Technical Program Committee for their hard work.

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