

## Foreword from the General Chairs

It is our pleasure to welcome you to the 43rd IFIP PERFORMANCE International Conference, held at Centrum Wiskunde & Informatica (CWI) in Amsterdam, The Netherlands, from 11 to 13 November 2025. This edition of the conference was organized as a fully in-person event, providing an excellent opportunity for researchers and practitioners to meet, exchange ideas, and engage in scientific discussion.

The IFIP PERFORMANCE conference continues to be one of the leading international venues for research on the performance evaluation of computing and communication systems, encompassing modeling, measurement, and analytical and methodological advances. The technical program reflects the breadth and depth of current research in the field and is described in more detail in the program chairs' welcome that follows.

The conference program included four tutorials, which took place alongside the main sessions. These tutorials covered a diverse range of timely topics: *A gentle introduction to quantum communication and networking* by Samuel Oslovich and Sounak Kar; *From multiarmed bandits to weakly coupled Markov decision processes* by Nicolas Gast and Bruno Gaujal; *Performability and survivability quantification* by Poul Heegaard; and *Performance analysis of future smart grids* by Bert Zwart. We thank the tutorial speakers for sharing their expertise and contributing to the educational dimension of the conference.

We were also honored to host four distinguished keynote speakers. Mark Squillante (IBM Research) presented a keynote on the intersection of applied probability, performance evaluation, and quantum computing. Pierre Pinson (Imperial College London) spoke on analytics of energy markets and networks. Nelly Litvak (TU Eindhoven) delivered a keynote on random walks on complex networks. Remco Litjens (TNO and TU Delft) addressed resource management challenges for 6G mobile networks. We are grateful to all keynote speakers for their insightful and inspiring contributions.

We sincerely thank the Technical Program Committee Chairs, Konstantin Avrachenkov, Hans van den Berg, and Cathy Xia, for their careful and professional management of the review process. We also thank the members of the Technical Program Committee and all reviewers for their dedication and effort, which ensured the high quality of the conference program. Our thanks further extend to the Publicity Chair, Alessandro Zocca, for his work in promoting the conference.

We gratefully acknowledge the support of our sponsors: CWI, Vrije Universiteit Amsterdam, STAR, Networks, ACM SIGMETRICS, and IFIP. Their support was essential for the successful organization of this conference.

Finally, we thank all authors and participants for their contributions and for making the 43rd IFIP PERFORMANCE conference a stimulating and rewarding event. We hope that you find the proceedings both valuable and inspiring, and that the discussions initiated during the conference will continue to foster progress in our research community.

General Chairs

Rob van der Mei (Centrum Wiskunde & Informatica)

Sandjai Bhulai (Vrije Universiteit Amsterdam)