PREFACE

This special issue contains extended versions of papers presented at STACS 2022, the 39th International Symposium on Theoretical Aspects of Computer Science, which was virtually held from March 15 to March 18.

STACS (`https://www.stacs-conf.org`) is a conference on theoretical aspects of computer science. Typical areas include (but are not limited to):

- Algorithms and data structures, including: design of parallel, distributed, approximation, parameterized and randomized algorithms; analysis of algorithms and combinatorics of data structures; computational geometry, cryptography, algorithmic learning theory, algorithmic game theory.
- Automata and formal languages, including: algebraic and categorical methods, coding theory.
- Complexity and computability, including: computational and structural complexity theory, parameterized complexity, randomness in computation;
- Logic in computer science, including: finite model theory, database theory, semantics, specification verification, rewriting and deduction.
- Current challenges, for example: natural computing, quantum computing, mobile and net computing, computational social choice.

The conference STACS 2022 was attended by more than 300 participants online, and welcomed four invited speakers:

- Marie Albenque (LIX, École Polytechnique, France)
- Maria-Florina Balcan (Carnegie Mellon University, USA)
- Amina Doumane (CNRS, LIP, ENS Lyon, France)
- Fabian Kuhn (University of Freiburg, Germany)

The articles selected for this special issue underwent a reviewing process in two stages. In the first stage, the STACS program committee selected 57 submissions out of 203. From the works presented at the conference, we invited authors of 5 selected articles to submit revised and extended versions of their work to this special issue. In the second stage, the submitted extended articles were reviewed following the usual high standards of LMCS, and all the submissions were accepted at the end. The topics of the articles include dynamical systems, logic, complexity and games.

We thank all the authors for their professional work to prepare submissions, and the reviewers for their constructive suggestions to improve the original submissions.

Petra Berenbrink and Benjamin Monmege
Guest Editors of the STACS 2022 Special Issue