PREFACE

This special issue of LMCS collects full versions of eleven of the strongest papers presented at the 30st Conference on Concurrency Theory, which was held in Amsterdam, the Netherlands, on August 27–30, 2019. At its 30th anniversary the CONCUR conference series returned to its place of birth, as the first two instalments, in 1990 and 1991, took place in Amsterdam.

CONCUR is a forum for the development and dissemination of leading research in concurrency theory and its applications. Its aim is to bring together researchers, developers, and students to exchange and discuss latest theoretical developments and learn about challenging practical problems. CONCUR is the reference annual event for researchers in the field.

This edition of the conference attracted 93 full paper submissions, of which 37 were selected for presentation. Eleven of those were selected for this special issue, based on the referee reports we received for their conference versions, ensuing discussions among program committee members, and their presentations at the conference. Each of them extends the version presented at CONCUR with proofs that had to be omitted in the CONCUR version and other new material. They have undergone a reviewing process in accordance with the high standards of the journal.

The selected papers witness the excellent quality of the scientific program of CONCUR 2019 and reflect current trends in research in concurrency theory. They address causal consistency in distributed databases, concurrent game theory, reachability games, probabilistic bisimilarity distances, Markov decision processes, asynchronous session subtyping, the analysis of FIFO machines, coverability in broadcast networks, and reactive synthesis.

We thank the authors for their enthusiastic participation, and the anonymous referees for their time and dedication.

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