Preface

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This special issue of ACM Transactions on Modeling and Computer Simulation is devoted to extensions of selected papers from the 16th International Conference on Quantitative Evaluation of Systems (QEST 2019). The conference was held during September 10–12, 2019, in Glasgow, UK.

QEST is a leading forum on quantitative evaluation and verification of computer systems and networks, through stochastic models and measurements. It aims to encourage all aspects of work centered around creating a sound methodological basis for assessing and designing systems using quantitative means. The conference covers a wide range of topics, including quantitative specification methods, stochastic and nondeterministic models, and metrics for performance, reliability, safety, correctness, and security. Systems of interest include computer hardware and software architectures, communication systems, embedded systems and biological systems.

This special issue comprises five papers which are extensions of those originally presented at QEST 2019. The guest editors selected these contributions based on the ranking of the papers from the selection process carried out by the QEST 2019 Program Committee. These revised and extended papers have then been reviewed again, in line with the normal processes for this journal. Each paper received at least three expert reviews.

We would like to thank the authors for their hard work in producing these extended papers, and the anonymous reviewers for their careful reviews and helpful suggestions for revisions. We are also grateful for the support of ACM Transactions on Modeling and Computer Simulation, in particular the Editor-in-Chief Francesco Quaglia.

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