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Universal Control Hub -- Model Solutions and Bounds -- Accurate Performance Estimation for Stochastic Marked Graphs by Bottleneck Regrowing -- A Numerical Algorithm for the Solution of Product-Form Models with Infinite State Spaces -- State-Dependent Rates and Semi-Product-Form via the Reversed Process -- Compositional Analysis -- Predictive Modelling of Peer-to-Peer Event-Driven Communication in Component-Based Systems -- A Component-Based Solution Method for Non-ergodic Markov Regenerative Processes -- Compositional Abstraction of PEPA Models for Transient Analysis -- Composing Systems While Preserving Probabilities.

Sommario/riassunto

This volume contains the proceedings of the 7th European Performance Engineering Workshop (EPEW 2010), held in Bertinoro, Italy, on September 23–24, 2010. The purpose of this workshop series is to gather academic and industrial researchers working on all aspects of performance engineering. This year the workshop was structured around three main areas: system and network performance engineering, software performance engineering, and the modeling and evaluation techniques supporting them. This edition of the workshop attracted 38 submissions, whose authors we wish to thank for their interest in EPEW 2010. After a careful review process during which every paper was refereed by at least three reviewers, the Program Committee selected 16 papers for presentation at the workshop. We warmly thank all the members of the Program Committee and all the reviewers for their fair and constructive comments and discussions. The workshop program was enriched by two keynote talks given by Marco Roccetti and Ralf Reussner. We conclude by expressing our gratitude to all the people who contributed to the organization of EPEW 2010, in particular the staff of the University Residential Center of Bertinoro. We are also grateful to the EasyChair team for having allowed us to use their conference system and Springer for the continued editorial support of this workshop series.
