

Table of Contents

Invited Contributions

- Failure Detection vs Group Membership in Fault-Tolerant Distributed Systems: Hidden Trade-Offs..... 1
André Schiper
- Probability and Timing: Challenges for Secure Programming..... 16
David Sands

Selected Papers

- Security Analysis of a Probabilistic Non-repudiation Protocol..... 17
Alessandro Aldini and Roberto Gorrieri
- The Mean Value of the Maximum..... 37
Henrik Bohnenkamp and Boudewijn Haverkort
- Reduction and Refinement Strategies for Probabilistic Analysis..... 57
Pedro R. D'Argenio, Bertrand Jeannot, Henrik E. Jensen, and Kim G. Larsen
- Action Refinement for Probabilistic Processes with True Concurrency Models..... 77
Harald Fecher, Mila Majster-Cederbaum, and Jinzhao Wu
- Probabilistic Unfoldings and Partial Order Fairness in Petri Nets..... 95
Stefan Haar
- Possibilistic and Probabilistic Abstraction-Based Model Checking..... 115
Michael Huth
- Out-of-Core Solution of Large Linear Systems of Equations Arising from Stochastic Modelling..... 135
Marta Kwiatkowska and Rashid Mehmood
- Model Checking CSL until Formulae with Random Time Bounds..... 152
Marta Kwiatkowska, Gethin Norman, and António Pacheco
- Probabilistic Model Checking of the IEEE 802.11 Wireless Local Area Network Protocol..... 169
Marta Kwiatkowska, Gethin Norman, and Jeremy Sproston
- Deriving Symbolic Representations from Stochastic Process Algebras..... 188
Matthias Kuntz and Markus Siegle

Short Abstracts

A Generalization of Equational Proof Theory?	207
<i>Olivier Bournez</i>	
An Integrated Approach for the Specification and Analysis of Stochastic Real-Time Systems	209
<i>Mario Bravetti</i>	
Probabilistic Abstract Interpretation and Statistical Testing	211
<i>Alessandra Di Pierro and Herbert Wiklicky</i>	
Approximate Verification of Probabilistic Systems	213
<i>Richard Lassaigne and Sylvain Peyronnet</i>	
Author Index	215