Stability of Discrete Sampled Systems p. 1
Issues in the Refinement of Distributed Programs p. 12
Challenges in the Verification of Electronic Control Units p. 18
Scaling up Uppaal Automatic Verification of Real-Time Systems Using Compositionality and Abstraction p. 19
Decidable Model Checking of Probabilistic Hybrid Automata p. 31
Invariant-Based Synthesis of Fault-Tolerant Systems p. 46
Modeling Faults of Distributed, Reactive Systems p. 58
Threshold and Bounded-Delay Voting in Critical Control Systems p. 70
Automating the Addition of Fault-Tolerance p. 82
Reliability Modelling of Time-Critical Distributed Systems p. 94
A Methodology for the Construction of Scheduled Systems p. 106
A Dual Interpretation of "Standard Constraints" in Parametric Scheduling p. 121
Co-simulation of Hybrid Systems: Signal-Simulink p. 134
A System for Object Code Validation p. 152
Real-Time Program Refinement Using Auxiliary Variables p. 170
On Refinement and Temporal Annotations p. 185
Generalizing Action Systems to Hybrid Systems p. 202
Compositional Verification of Synchronous Networks p. 214
Modelling Coordinated Atomic Actions in Timed CSP p. 228
A Logical Characterisation of Event Recording Automata p. 240
Using Cylindrical Algebraic Decomposition for the Analysis of Slope Parametric Hybrid Automata p. 252
Probabilistic Neighbourhood Logic p. 264
An On-the-Fly Tableau Construction for a Real-Time Temporal Logic p. 276
Verifying Universal Properties of Parameterized Networks p. 291
Author Index p. 305

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.