<<Formal Modeling and >>

<<Formal Modeling and Analysis of Timed Systems   /   >>

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    Paul Pettersson

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This book constitutes the thoroughly refereed post-proceedings of the Third International Conference on Formal Modeling and Analysis of Timed Systems, FORMATS 2005, held in Uppsala, Sweden in September 2005 in conjunction with ARTIST2 summer school on Component Modelling, Testing and Verification, and Static analysis of embedded systems. The 19 revised full papers presented together with the abstracts of 3 invited talks were carefully selected from 43 submissions. The papers cover work on semantics and modeling of timed systems, formalisms for modeling and verification including timed automata, hybrid automata, and timed petri nets, games for verification and synthesis, model-checking, case studies and issues related to implementation, security and performance analysis.

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Invited Talk Modular Performance Analysis of Distributed Embedded SystemsLogic and Specification Real Time Temporal Logic: Past, Present, Future Translating Timed I/O Automata Specifications for Theorem Proving in PVS SpecificAtion and Refinement of Soft Real-Time Requirements Using Sequence DiagramsTimes Games and Synthesis On Optimal Timed Strategies Average Reward Timed Games Beyond Liveness: Efficient Parameter Synthesis for Time Bounded LivenessInvited Talk Verification of Parameterized Timed SystemsModel Checking Model Checking the Time to Reach Agreement Diagonal Constraints in Timed Automata: Forward Analysis of Timed Systems A New Verification Procedure for Partially Clairvoyant SchedulingInvited Talk Timing Analysis and Simulation Tools for Real-Time ControlHybrid Systems Automatic Rectangular Refinement of Affine Hybrid Systems Reachability Problems on Extended O-Minimal Hybrid Automata Counterexamples for Timed Probabilistic ReachabilityPetri Nets Time Supervision of Concurrent Systems Using Symbolic Unfoldings of Time Petri Nets Comparison of the Expressiveness of Timed Automata and Time Petri NetsSemantics Quantifying Similarities Between Timed Systems Performance of Pipelined Asynchronous Systems ……Semantics and ModellingAuthor Index

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