



Formal Modeling and Analysis of Timed Systems

By Krishnendu Chatterjee

Springer-Verlag GmbH Sep 2010, 2010. Taschenbuch. Book Condition: Neu. 239x155x15 mm. Neuware - This volume contains the papers that were presented at the 8th International Conference on Formal Modeling and Analysis of Timed Systems (FORMATS 2010), held September 8-10, 2010, at IST (Institute of Science and Technology) Austria, in Klosterneuburg, Austria. The modeling and analysis of timing aspects of systems is a key problem that has been treated independently in several different communities in computer science and related areas. Researchers interested in semantics, verification, real-time scheduling, and performance analysis study models such as timed automata and timed Petri nets, the digital design community focuses on propagation and switching delays, and designers of embedded controllers need to take into account the time required by controllers to compute their responses after sampling the environment. Although the timing-related questions in these separate communities have their own specific nature, there is a growing awareness that there are basic problems that are common to all of them. In particular, all of these disciplines model and analyze systems whose behavior depends on combinations of logical and timing constraints between occurrences of events. The aim of FORMATS is to promote the study of fundamental and practical aspects of timed systems, and to bring together researchers from...



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