Lectures on Formal Methods and Performance Analysis: First EefEuro Summer School on Trends in Computer Science Berg En Dal, the Netherlands, July 3-7, 2000. Revised Lectures

By -

Springer. Paperback. Condition: New. 434 pages. Dimensions: 9.1in. x 6.8in. x 1.0in.Traditionally, models and methods for the analysis of the functional correctness of reactive systems, and those for the analysis of their performance (and - pendability) aspects, have been studied by dierent research communities. This has resulted in the development of successful, but distinct and largely unrelated modeling and analysis techniques for both domains. In many modern systems, however, the dierence between their functional features and their performance properties has become blurred, as relevant functionalities become inextricably linked to performance aspects, e. g. isochronous data transfer for live video tra- mission. During the last decade, this trend has motivated an increased interest in c- bining insights and results from the eld of formal methods traditionally - cused on functionality with techniques for performance modeling and analysis. Prominent examples of this cross-fertilization are extensions of process algebra and Petri nets that allow for the automatic generation of performance models, the use of formal proof techniques to assess the correctness of randomized - gorithms, and extensions of model checking techniques to analyze performance requirements automatically. We believe that these developments markthe - ginning of a new paradigm for the modeling and analysis...

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