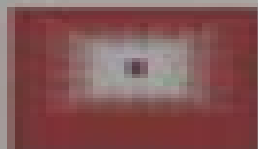


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Formal Techniques in Real-Time and Fault-Tolerant Systems

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Proceedings



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Formal Techniques In Real Time And Fault Tolerant Systems

Clifford Lane



Formal Techniques In Real Time And Fault Tolerant Systems:

Formal Techniques in Real-Time and Fault-Tolerant Systems Jan Vytopil, 2012-12-06 Formal Techniques in Real Time and Fault Tolerant Systems focuses on the state of the art in formal specification development and verification of fault tolerant computing systems The term fault tolerance refers to a system having properties which enable it to deliver its specified function despite certain faults of its subsystem Fault tolerance is achieved by adding extra hardware and or software which corrects the effects of faults In this sense a system can be called fault tolerant if it can be proved that the resulting extended system under some model of reliability meets the reliability requirements The main theme of Formal Techniques in Real Time and Fault Tolerant Systems can be formulated as follows how do the specification development and verification of conventional and fault tolerant systems differ How do the notations methodology and tools used in design and development of fault tolerant and conventional systems differ Formal Techniques in Real Time and Fault Tolerant Systems is divided into two parts The chapters in Part One set the stage for what follows by defining the basic notions and practices of the field of design and specification of fault tolerant systems The chapters in Part Two represent the how to section containing examples of the use of formal methods in specification and development of fault tolerant systems The book serves as an excellent reference for researchers in both academia and industry and may be used as a text for advanced courses on the subject

Formal Techniques in Real-Time and Fault-Tolerant Systems Jan Vytopil, 1991-12-11 This book presents state of the art research results in the area of formal methods for real time and fault tolerant systems The papers consider problems and solutions in safety critical system design and examine how well the use of formal techniques for design analysis and verification serves in relating theory to practical realities The book contains papers on real time and fault tolerance issues Formal logic process algebra and action event models are applied to specify and model qualitative and quantitative real time and fault tolerant behavior to analyze timeliness requirements and consequences of fault hypotheses to verify protocols and program code to formulate formal frameworks for development of real time and fault tolerant systems to formulate semantics of languages The integration and cross fertilization of real time and fault tolerance issues have brought new insights in recent years and these are presented in this book

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Formal Techniques in Real-time and Fault-tolerant Systems, 1988

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Hans Langmaack, W.-P. de Roever, Working Group Provably Correct Systems, 1994-09-07 This volume presents the proceedings of the Third International Symposium on Formal Techniques in Real Time and Fault Tolerant Systems held jointly with the Working Group Provably Correct Systems ProCoS at Lbeck Germany in September 1994 The book contains full versions of 5 invited talks and 33 carefully selected refereed contributions as well as 12 tool demonstrations It documents that formal techniques constitute the foundation of a systematic design of real time fault tolerant and hybrid systems throughout the whole engineering process from the capture of requirements through specification design coding and compilation right down to the hardware that embeds the system into its environment

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