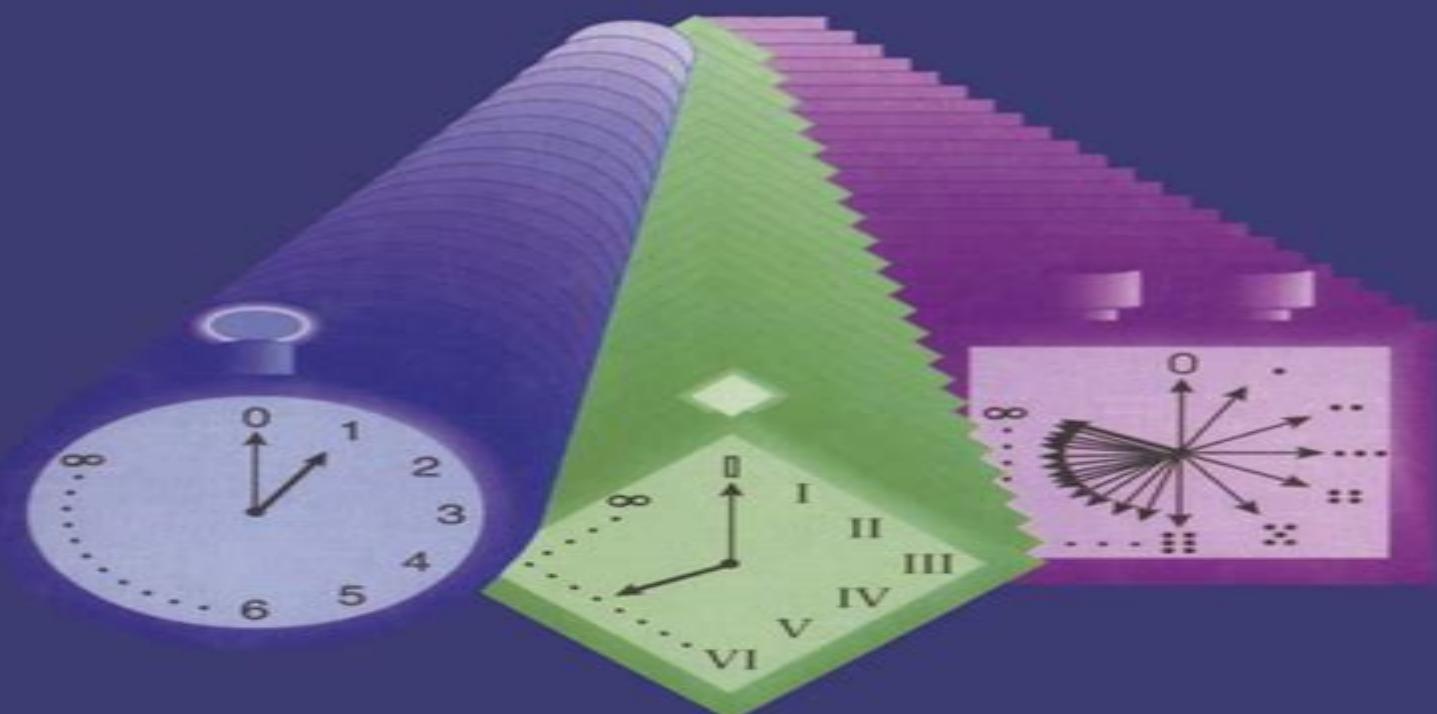


Zohar Manna
Amir Pnueli

The Temporal Logic of Reactive and Concurrent Systems

•Specification•



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The Temporal Logic Of Reactive And Concurrent Systems Specification

Zohar Manna, A. Pnueli

The Temporal Logic Of Reactive And Concurrent Systems Specification:

The Temporal Logic of Reactive and Concurrent Systems Zohar Manna,Amir Pnueli,2012-12-06 Reactive systems are computing systems which are interactive such as real time systems operating systems concurrent systems control systems etc They are among the most difficult computing systems to program Temporal logic is a formal tool language which yields excellent results in specifying reactive systems This volume the first of two subtitled Specification has a self contained introduction to temporal logic and more important an introduction to the computational model for reactive programs developed by Zohar Manna and Amir Pnueli of Stanford University and the Weizmann Institute of Science Israel respectively

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Specification of Software Systems V.S. Alagar,K. Periyasamy,2013-03-14 This is a textbook on software specification emphasizing formal methods that are relevant to requirements and design stages of software development The aim of the book is to teach the fundamental principles of formal methods in the construction of modular and verifiable formal specifications The book introduces several formal specification techniques and illustrates the expressive power of each technique with a number of examples General Characteristics Traditional textbooks on software engineering discuss the difficulties and challenges that lie on the path from requirements analysis to implementation of a software product Most of these books describe some techniques in detail and give hints on implementation of these techniques Only a few among them deal with important software engineering principles and techniques and discuss how a particular technique may be used to implement a given principle There is very little exposure in these books to a rigorous approach to or a systematic study of the construction of verifiable software Those who have acquired an understanding of the fundamental principles of software engineering from traditional textbooks will find the following characteristics of this book quite relevant to the practice of software engineering The book deals with specification The principal characteristic of this book is to discuss formalisms that provide a theoretical foundation for the principles of software engineering and are appropriate to the requirements and design stages of software development

CONCUR 2002 - Concurrency Theory Lubos Brim,Petr Jancar,Mojmir Kretinsky,Antonin Kucera,2003-08-02 This book constitutes the refereed proceedings of the 13th International Conference on Concurrency Theory CONCUR 2002 held in Brno Czech Republic in August 2002 The 32 revised full papers presented together with abstracts of seven invited contributions were carefully reviewed and selected from 101 submissions The papers

are organized in topical sections on verification and model checking logic mobility probabilistic systems models of computation and process algebra security Petri nets and bisimulation **A Decade of Concurrency** J.W.de Bakker,W.-P.de Roever,G. Rozenberg,1994-06-28 The REX School Symposium A Decade of Concurrency Reflections and Perspectives was the final event of a ten year period of cooperation between three Dutch research groups working on the foundations of concurrency Ever since its inception in 1983 the goal of the project has been to contribute to the cross fertilization between formal methods from the fields of syntax semantics and proof theory aimed at an improved understanding of the nature of parallel computing The material presented in this volume was prepared by the lecturers and their coauthors after the meeting took place In total the volume constitutes a thorough state of the art report of the research activities in concurrency

Algorithms, Concurrency and Knowledge Kanchana Kanchanasut,Jean-Jacques Levy,1995-11-28 This volume constitutes the refereed proceedings of the 1995 Asian Computing Science Conference ACSC 95 held in Pathumthani Thailand in December 1995 The 29 fully revised papers presented were selected from a total of 102 submissions clearly the majority of the participating researchers come from South East Asian countries but there is also a strong international component The volume reflects research activities particularly by Asian computer science researchers in different areas Special attention is paid to algorithms knowledge representation programming and specification languages verification concurrency networking and distributed systems and databases [Algebraic Methodology and Software Technology \(AMAST'93\)](#) Maurice Nivat,Charles Rattray,Teodor Rus,Giuseppe Scollo,2012-12-06 The goal of the AMAST conferences is to foster algebraic methodology as a foundation for software technology and to show that this can lead to practical mathematical alternatives to the ad hoc approaches commonly used in software engineering and development The first two AMAST conferences held in May 1989 and May 1991 at the University of Iowa were well received and encouraged the regular organization of further AMAST conferences on a biennial schedule The third Conference on Algebraic Methodology and Software Technology was held in the campus of the University of Twente The Netherlands during the first week of Summer 1993 Nearly a hundred people from all continents attended the conference The largest interest received by the AMAST conference among the professionals extended to include the administration organizations as well AMAST 93 was opened by the Rector of the University of Twente followed by the Local Chairman Their opening addresses open this proceedings too The proceedings contains 8 invited papers and 32 selected communications The selection was very strict for 121 submissions were received [The Electrical Engineering Handbook](#) Wai Kai Chen,2004-11-16 The Electrical Engineer's Handbook is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer's first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for

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Partial-Order Methods for the Verification of Concurrent Systems Patrice Godefroid,1996-01-24 This monograph is a revised version of the author s Ph D thesis submitted to the University of Li ge Belgium with Pierre Wolper as thesis advisor The general pattern of this work is to turn logical and semantic ideas into exploitable algorithms Thus it perfectly fits the modern trend viewing verification as a computer aided activity and as algorithmic as possible not as a paper and pencil one dealing exclusively with semantic and logical issues Patrice Godefroid uses state space exploration as the key technique which as such or elaborated into model checking is attracting growing attention for the verification of concurrent systems For most realistic examples the methods presented provide a significant reduction of memory and time requirements for protocol verification

Workshop on Industrial-Strength Formal Specification Techniques ,1995 **ACM Transactions on Programming Languages and Systems** Association for Computing Machinery,1999 *Resources in Parallel and Concurrent Systems* ,1991 Computer Systems Organization Parallel architecture *Foundations of Software Science and Computation Structures* ,2000 *Proceedings of the Fourth International Conference Information Systems Development - ISD '94* Jože Zupančič,Stanislaw Wrycza,1994 *Proceedings of the Sixteenth ACM Symposium on Principles of Distributed Computing* ,1997 **ACM SIGPLAN Notices** ,1996

Computer-aided Verification ,1998 **SIGSOFT '96** Symposium on the Foundations of Software Engineering,1996 **Software Engineering for Parallel and Distributed Systems** Innes Jelly,Ian Gorton,Peter Croll,1996-03-31 A wide range of modern computer applications require the performance and flexibility of parallel and distributed systems Better software support is required if the technical advances in these systems are to be fully exploited by commerce and industry This involves the provision of specialised techniques and tools as well as the integration of standard software engineering methods This book will reflect current advances in this area and will address issues of theory and practice with contributions

from academia and industry It is the aim of the book to provide a focus for information on this developing which will be of use to both researchers and practitioners **International Symposium on Software Engineering for Parallel and Distributed Systems** Peter Croll, Hesham El-Rewini, 1999 Contains 22 papers from the May 1999 symposium The 12 regular papers discuss distributed object systems analysis testing and debugging validation of concurrent programs and applications and methods Among the titles are state based reproducible testing for CORBA applications channel dependenc

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