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FRED KRÖGER

Temporal Logic of Programs



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Temporal Logic Of Programs Eatcs Monographs On Theoretical Computer Science Volume 8

**Samson Abramsky, Thomas S. E.
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Temporal Logic Of Programs Eatcs Monographs On Theoretical Computer Science Volume 8:

Temporal Logic of Programs Fred Kröger, 2012-12-06 Introduction to the temporal logic of in particular parallel programs Divided into three main parts Presentation of the pure temporal logic language semantics and proof theory Representation of programs and their proper ties within the language of temporal logic Application of the logical apparatus to the verification of program proper ties including a new embedding of Hoare s logic into the temporal framework

Temporal Logics in Computer Science Stéphane Demri, Valentin Goranko, Martin Lange, 2016-10-13 A comprehensive modern and technically precise exposition of the theory and main applications of temporal logics in computer science

Fundamentals of Computation Theory Gabriel Ciobanu, Gheorghe Paun, 2003-07-31 This book constitutes the refereed proceedings of the 12th International Symposium on Fundamentals of Computation Theory FCT 99 held in Iasi Romania in August September 1999 The 42 revised full papers presented together with four invited papers were carefully selected from a total of 102 submissions Among the topics addressed are abstract data types algorithms and data structures automata and formal languages categorical and topological approaches complexity computational geometry concurrency cryptology distributed computing logics in computer science process algebras symbolic computation molecular computing quantum computing etc

Universal Algebra for Computer Scientists Wolfgang Wechler, 2012-12-06 A new model theoretic approach to universal algebra is offered in this book Written for computer scientists it presents a systematic development of the methods and results of universal algebra that are useful in a variety of applications in computer science The notation is simple and the concepts are clearly presented The book concerns the algebraic characterization of axiomatic classes of algebras equational implicational and universal Horn classes by closure operators generalizing the famous Birkhoff Variety Theorem and the algebraic characterization of the related theories The book also presents a thorough study of term rewriting systems Besides basic notions the Knuth Bendix completion procedure and termination proof methods are considered A third main topic is that of fixpoint techniques and complete ordered algebras Algebraic specifications of abstract data types and algebraic semantics of recursive program schemes are treated as applications The book is self contained and suitable both as a textbook for graduate courses and as a reference for researchers

Paradigms of Concurrency Ryszard Janicki, Jetty Kleijn, Maciej Koutny, Łukasz Mikulski, 2022-06-06 Paradigms of Concurrency Observations Behaviours and Systems a Petri Net View Ryszard Janicki McMaster University CA Jetty Kleijn Leiden University NL Maciej Koutny Newcastle University UK Łukasz Mikulski Nicolaus Copernicus University PL Concurrency can be studied at different yet consistent levels of abstraction from individual behavioural observations via more abstract concurrent histories that can be represented by causality structures capturing invariant dependencies between executed actions to system level constructs such as Petri nets or process algebra expressions Histories can then be understood as sets of closely related observations Depending on the nature of the observed relationships between executed actions involved in a single concurrent history one may identify

different concurrency paradigms underpinned by different kinds of causality structures such as partial orders This book studies fundamental mathematical abstractions to capture and relate observations histories and systems In particular taking a Petri net view we present system models fitting various concurrency paradigms and their associated causality structures

Calculational System Design M. Broy, Ralf Steinbrüggen, 1999 Computer Science has made considerable progress in making complex software and hardware systems more reliable This is a result of practical experience and continuous process improvement on one side and of a better and deeper understanding of the fundamentals of software and system engineering on the other side Recent encouraging trends are a strong integration of formal techniques with practical industrial development methods and more advanced support tools such as modelling verification and model checking support systems This active area of research has a relatively short term horizon with respect to transferring technology to industrial applications This volume is focusing on techniques and the scientific basis for calculation based development of software and hardware systems as a foundation for advanced methods and tools for software and system engineering This includes topics of specification description methodology refinement verification and implementation The volume presents new trends and insights reflecting the current state of the art in the scientific foundation of these techniques since such a foundation is an indispensable prerequisite for advanced development methods

Process Algebra with Timing J.C.M. Baeten, C.A.

Middelburg, 2013-03-09 This book is concerned with a number of theories that can be used for describing and analyzing systems of interacting components in case it is desirable or necessary to regard their time dependent behavior Society is becoming increasingly more dependent on complex computer based systems that are composed of several components that act concurrently and interact to synchronize and communicate with each other The complexity of these systems arises to a great extent from the many ways in which their components can interact The need that these components act and interact on time as well adds considerably to the complexity In developing such a system it is important to be able to acquire a better understanding of the relevant issues at the conceptual level to describe the system in a precise way at various levels of detail and to analyze it on the basis of the descriptions When the early algebraic theories about processes such as ACP 16 17 20 CCS 49 50 and CSP 27 39 were developed for that purpose the established opinion was still that timing is a concern that can more often than not be treated independently It is therefore not surprising that timing is deliberately ignored in those theories They have now all been extended to deal with timing

Incomplete Information: Structure, Inference, Complexity

Stephane P. Demri, Ewa Orłowska, 2013-04-18 The construction of any broadly understood theory of information or information processing system involves two major methodological processes 1 abstraction and analysis 2 reasoning and computing This monograph is a realisation of these two processes in relation to the study of incompleteness of information The paradigm we are working with is inspired by a rough set approach to data analysis the formalisms we develop enable the use of a non invasive data representation This means that the only information which is and must be used in the process of

analysis is the actual information that is to be analysed we do not require any additional sources of information An abstraction is formed in the process of conception design and development of structures Then analysis leads to a selection of a class of structures In this book we delineate a class of informational structures that enable us to represent both numerical and non numerical information and we analyse various manifestations of its incompleteness We discuss several general types of incompleteness of information which are grounded in a rough set style view of imprecision and uncertainty Manifestations of these types of incompleteness in information systems are investigated

The Structure of the Relational Database Model Jan Paredaens,Paul De Bra,Marc Gyssens,Dirk van Gucht,2012-12-06 This book presents an overview of the most fundamental aspects of the theory that underlies the Relational Database Model As such it is self contained though experience with formal models and abstract data manipulating on the one hand and with the practical use of a relational system on the other hand can help the reader Such experience will offer the reader a better understanding of and a motivation for the different concepts theories and results mentioned in the book We have focussed on the most basic concepts and aspects of the relational model without trying to give a complete overview of the state of the art of database theory Recently a lot of books on databases in general and on the relational model in particular have been published Most of them describe the use of database systems Some clarify how information has to be structured and organized before it can be used to build applications Others help the user in writing down his applications or in finding tricky ways to optimize the running time or the necessary space Another category of books treat more fundamental and more general aspects such as the description of the relational model independent of any implementation the decomposition in normal forms or the global design of distributed databases Few however are the books that describe in a formal way some of the subjects mentioned above

Parsing Theory Seppo Sippu,Eljas Soisalon-Soininen,2012-12-06 The theory of parsing is an important application area of the theory of formal languages and automata The evolution of modern high level programming languages created a need for a general and theoretically sound methodology for writing compilers for these languages It was perceived that the compilation process had to be syntax directed that is the functioning of a programming language compiler had to be defined completely by the underlying formal syntax of the language A program text to be compiled is parsed according to the syntax of the language and the object code for the program is generated according to the semantics attached to the parsed syntactic entities Context free grammars were soon found to be the most convenient formalism for describing the syntax of programming languages and accordingly methods for parsing context free languages were developed Practical considerations led to the definition of various kinds of restricted context free grammars that are parsable by means of efficient deterministic linear time algorithms

Kolmogorov Complexity and Computational Complexity Osamu Watanabe,2012-12-06 The mathematical theory of computation has given rise to two important approaches to the informal notion of complexity Kolmogorov complexity usually a complexity measure for a single object such as a string a sequence etc

measures the amount of information necessary to describe the object Computational complexity usually a complexity measure for a set of objects measures the computational resources necessary to recognize or produce elements of the set The relation between these two complexity measures has been considered for more than two decades and many interesting and deep observations have been obtained In March 1990 the Symposium on Theory and Application of Minimal Length Encoding was held at Stanford University as a part of the AAAI 1990 Spring Symposium Series Some sessions of the symposium were dedicated to Kolmogorov complexity and its relations to the computational complexity theory and excellent expository talks were given there Feeling that due to the importance of the material some way should be found to share these talks with researchers in the computer science community I asked the speakers of those sessions to write survey papers based on their talks in the symposium In response five speakers from the sessions contributed the papers which appear in this book

Advances in Temporal Logic Howard Barringer, Michael Fisher, Dov M. Gabbay, Graham Gough, 2013-11-11 Time is a fascinating subject and has long since captured mankind's imagination from the ancients to modern man both adult and child alike It has been studied across a wide range of disciplines from the natural sciences to philosophy and logic Today thirty plus years since Prior's work in laying out foundations for temporal logic and two decades on from Pnueli's seminal work applying of temporal logic in specification and verification of computer programs temporal logic has a strong and thriving international research community within the broad disciplines of computer science and artificial intelligence Areas of activity include but are certainly not restricted to Pure Temporal Logic e.g. temporal systems proof theory model theory expressiveness and complexity issues algebraic properties application of game theory Specification and Verification e.g. of reactive systems of real time components of user interaction of hardware systems techniques and tools for verification execution and prototyping methods Temporal Databases e.g. temporal representation temporal querying granularity of time update mechanisms active temporal data bases hypothetical reasoning Temporal Aspects in AI e.g. modelling temporal phenomena in interval temporal calculi temporal nonmonotonicity interaction of temporal reasoning with action knowledge belief logics temporal planning Tense and Aspect in Natural Language e.g. models ontologies temporal quantifiers connectives prepositions processing temporal statements Temporal Theorem Proving e.g. translation methods clausal and non clausal resolution tableaux automata theoretic approaches tools and practical systems

Nonsequential Processes Eike Best, Cesar Fernandez C., 2012-12-06 The theory of Petri nets is a part of computer science whose importance is increasingly acknowledged Many papers and anthologies whose subject matter is net theory and its applications have appeared to date There exist at least seven introductory textbooks on the theory The present monograph augments this literature by offering a mathematical treatment of one of the central aspects of net theory the modelling of concurrency by partially ordered sets Occurrence nets which are special nets as well as special partial orders are proposed by net theory for this purpose We study both the general properties of occurrence nets and their use in describing the concurrent behaviour of systems Occurrence

nets may be contrasted with a more language oriented approach to the modelling of concurrency known as arbitrary interleaving We will discuss some connections between these two approaches Other approaches based on partially ordered sets such as the theory of traces the theory of event structures and the theory of semi words are not considered in this book in spite of the strong links between them and net theory

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

TAPSOFT '91 - Volume 2 Samson Abramsky,Thomas S. E. Maibaum,1991 TAPSOFT 91 is the Fourth International Joint Conference on Theory and Practice of Software Development It was held in Brighton April 8 12 1991 and was organized by the Department of Computing Imperial College London The proceedings of TAPSOFT 91 are organized into three parts Advances in Distributed Computing ADC Colloquium on Trees in Algebra and Programming CAAP Colloquium on Combining Paradigms for Software Development CCPSD The proceedings are published in two volumes The first volume LNCS Vol 493 contains the papers from CAAP The second volume LNCS Vol 494 contains the papers from the ADC and CCPSD The ADC talks by distinguished invited speakers surveys current developments in distributed computing including the integration of different paradigms for concurrency algebraic logical and operational foundations and applications to software engineering and formal methods The CCPSD papers address aspects of the trend in software engineering towards unification and synthesis combining theory and practice and merging hitherto diverse approaches

PUBLISHER S WEBSITE

Structural Complexity I Jose L. Balcazar,Josep Diaz,Joaquim Gabarro,2012-12-06 Since the achievement of a formal definition of the concept of algorithm the Mathematical Theory of Computation has developed into a broad and rich discipline The notion of complexity of an algorithm yields an important area of research known as Complexity Theory that can be approached from several points of view Some

of these are briefly discussed in the Introduction and in particular our view of the Structural approach is outlined there We feel the subject is mature enough to permit collecting and interrelating many of the results in book form Let us point out that a substantial part of the knowledge in Structural Complexity Theory can be found only in specialized journals symposia proceedings and monographs like doctoral dissertations or similar texts mostly unpublished We believe that a task to be done soon is a systematization of the interconnections between all the research lines this is a serious and long task We hope that the two volumes of this book can serve as a starting point for this systematization process

Computability Klaus

Weihrach, 2012-12-06 Intends to lay a common basis for the different branches of recursion theory Leads from the very basic theory to modern concepts of computability Consists of three consecutive parts 1 Basic Concepts of Computability 2 Traditional Recursion Theory 3 Unified Type 2 theory of constructivity and computability on Baire's space including a general theory of representations

Public-Key Cryptography Arto Salomaa, 2013-03-09

Cryptography secret writing is probably as old as writing itself But only recently has it become the object of extensive scientific studies Vast new applications to data security are one explanation for this Perhaps a more important reason for the huge growth of scientific research on cryptography is the seminal idea of public key cryptography and the resulting new vistas on the possibilities of communication This book gives a broad overview of public key cryptography covering its essence and advantages various public key cryptosystems and protocols It also gives a comprehensive introduction to classical cryptography and cryptanalysis The book is self contained and suitable both as a text and as a reference It starts from the beginning but also includes some 1989 developments The presentation is in many ways new with some new results The treatment is rigorous but avoids unnecessary formalism The plaintext examples in the book form a package of basic sauna knowledge

Fundamentals of Algebraic Specification 2 Hartmut Ehrig, Bernd Mahr, 1989-12-28

Since the early seventies concepts of specification have become central in the whole area of computer science Especially algebraic specification techniques for abstract data types and software systems have gained considerable importance in recent years They have not only played a central role in the theory of data type specification but meanwhile have had a remarkable influence on programming language design system architectures and software tools and environments The fundamentals of algebraic specification lay a basis for teaching research and development in all those fields of computer science where algebraic techniques are the subject or are used with advantage on a conceptual level Such a basis however we do not regard to be a synopsis of all the different approaches and achievements but rather a consistently developed theory Such a theory should mainly emphasize elaboration of basic concepts from one point of view and in a rigorous way reach the state of the art in the field We understand fundamentals in this context as 1 Fundamentals in the sense of a carefully motivated introduction to algebraic specification which is understandable for computer scientists and mathematicians 2 Fundamentals in the sense of mathematical theories which are the basis for precise definitions constructions results and correctness proofs 3

Fundamentals in the sense of concepts from computer science which are introduced on a conceptual level and formalized in mathematical terms

Compiler Generators Mads Tofte, 2012-12-06

The Origin of this monograph is a course entitled Semantics directed Compiler Generation which Professor Neil D Jones gave in 1982 at Copenhagen University where I was a student at the time. In this course he described a compiler generator called CERES which he was developing. I immediately felt attracted to the unusual combination of mathematical reasoning about compilers and the small intricate building blocks that made up the running system. As I came to understand the system I discovered that within the existing mathematical framework one could express compiler generation as a special case of compilation. This led to a specification of a compiler generator which was bootstrapped on itself resulting in a machine generated compiler generator. The purpose of this monograph is to describe the CERES system we produced in 1983-84 and compare it with other systems including more recent ones. Also it is as relevant today as it was then to discuss the role of compiler generators as an aid in the design and implementation of programming languages. This I do in Chap 5. This monograph is a strongly revised version of the *Handbook of Compiler Construction*.

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