

**TEMPORAL LOGICS  
AND THEIR  
APPLICATIONS**

Edited by  
**ANTONY GALTON**

# Temporal Logics And Their Applications

**Yixiang Chen, Songmao Zhang**



## **Temporal Logics And Their Applications:**

*Temporal Logics and Their Applications* Antony Galton, 1987 FROM THE PREFACE This book has risen from a conference on Temporal Logic and Its Applications held at the University of Leeds in January 1986 under the auspices of the then newly created Centre for Theoretical Computer Science Temporal logic is a field which having originated within philosophy has now proved to be of relevance to several distinct areas in computer science In this publication all of the aspects of temporal logic are treated together hopefully providing a stimulus to further inter disciplinary collaboration not only as regards temporal logic itself but also in connection with other logical and philosophical issues which lie at the interface between computing and philosophy

**Logic and Its Applications** R. Ramanujam, Sundar Sarukkai, 2009-02-13 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the 5th volume of the FoLLI LNAI subline It contains the refereed proceedings of the Third Indian Conference on Logic and Its Applications ICLA 2009 held in Chennai India in January 2009 The 12 revised full papers presented together with 7 invited lectures were carefully reviewed and selected from numerous submissions The papers present current research in all aspects of formal logic They address in detail algebraic logic and set theory combinatorics and philosophical logic modal logics with applications to computer science and game theory and connections between ancient logic systems and modern systems

Logics for Databases and Information Systems Jan Chomicki, Gunter Saake, 2012-12-06 Time is ubiquitous in information systems Almost every enterprise faces the problem of its data becoming out of date However such data is often valuable so it should be archived and some means to access it should be provided Also some data may be inherently historical e g medical cadastral or judicial records Temporal databases provide a uniform and systematic way of dealing with historical data Many languages have been proposed for temporal databases among others temporal logic Temporal logic combines abstract formal semantics with the amenability to efficient implementation This chapter shows how temporal logic can be used in temporal database applications Rather than presenting new results we report on recent developments and survey the field in a systematic way using a unified formal framework GHR94 Ch094 The handbook GHR94 is a comprehensive reference on mathematical foundations of temporal logic In this chapter we study how temporal logic is used as a query and integrity constraint language Consequently model theoretic notions particularly for model satisfaction are of primary interest Axiomatic systems and proof methods for temporal logic GHR94 have found so far relatively few applications in the context of information systems Moreover one needs to bear in mind that for the standard linearly ordered time domains temporal logic is not recursively axiomatizable GHR94 so recursive axiomatizations are by necessity incomplete

Logic and Its Applications Kamal Lodaya, 2012-12-22 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 5th Indian Conference on Logic and Its Applications ICLA 2013 held in Chennai India in January 2013 The 15 revised full papers presented together with 7 invited talks were carefully reviewed and selected from numerous submissions The

papers cover the topics related to pure and applied logic foundations and philosophy of mathematics and the sciences set theory model theory proof theory areas of theoretical computer science artificial intelligence and other disciplines which are of direct interest to mathematical and philosophical logic      *Intelligent Computing Theories and Application* De-Shuang Huang, Vitoantonio Bevilacqua, Prashan Premaratne, Phalguni Gupta, 2018-08-08 This two volume set LNCS 10954 and LNCS 10955 constitutes in conjunction with the volume LNAI 10956 the refereed proceedings of the 14th International Conference on Intelligent Computing ICIC 2018 held in Wuhan China in August 2018 The 275 full papers and 72 short papers of the three proceedings volumes were carefully reviewed and selected from 632 submissions The papers are organized in topical sections such as Neural Networks Pattern Recognition Image Processing Intelligent Computing in Robotics Intelligent Control and Automation Intelligent Data Analysis and Prediction Fuzzy Theory and Algorithms Supervised Learning Unsupervised Learning Kernel Methods and Supporting Vector Machines Knowledge Discovery and Data Mining Natural Language Processing and Computational Linguistics Gene Expression Array Analysis Systems Biology Computational Genomics Computational Proteomics Gene Regulation Modeling and Analysis Protein Protein Interaction Prediction Next Gen Sequencing and Metagenomics Structure Prediction and Folding Evolutionary Optimization for Scheduling High Throughput Biomedical Data Integration and Mining Machine Learning Algorithms and Applications Heuristic Optimization Algorithms for Real World Applications Evolutionary Multi Objective Optimization and Its Applications Swarm Evolutionary Algorithms for Scheduling and Combinatorial Optimization Swarm Intelligence and Applications in Combinatorial Optimization Advances in Metaheuristic Optimization Algorithm Advances in Image Processing and Pattern Recognition Techniques AI in Biomedicine Bioinformatics Biometrics Recognition Information Security Virtual Reality and Human Computer Interaction Healthcare Informatics Theory and Methods Intelligent Computing in Computer Vision Intelligent Agent and Web Applications Reinforcement Learning Machine Learning Modeling Simulation and Optimization of Biological Systems Biomedical Data Modeling and Mining Cheminformatics Intelligent Computing in Computational Biology Protein Structure and Function Prediction Biomarker Discovery Hybrid Computational Intelligence Theory and Application in Bioinformatics Computational Biology and Systems Biology IoT and Smart Data Intelligent Systems and Applications for Bioengineering Evolutionary Optimization Foundations and Its Applications to Intelligent Data Analytics Protein and Gene Bioinformatics Analysis Algorithms and Applications      **Theory and Applications of Relational Structures as Knowledge Instruments II** Harrie de Swart, Ewa Orłowska, Gunther Schmidt, Marc Roubens, 2007-01-23 This book constitutes the major results of the EU COST European Cooperation in the field of Scientific and Technical Research Action 274 TARSKI Theory and Applications of Relational Structures as Knowledge Instruments running from July 2002 to June 2005 The papers are devoted to further understanding of interdisciplinary issues involving relational reasoning by addressing relational structures and the use of relational methods in applicable object domains      *Dual Tableaux: Foundations, Methodology, Case Studies* Ewa

Orlowska, Joanna Golińska Pilarek, 2012-01-07 This book presents logical foundations of dual tableaux together with a number of their applications both to logics traditionally dealt with in mathematics and philosophy such as modal intuitionistic relevant and many valued logics and to various applied theories of computational logic such as temporal reasoning spatial reasoning fuzzy set based reasoning rough set based reasoning order of magnitude reasoning reasoning about programs threshold logics logics of conditional decisions The distinguishing feature of most of these applications is that the corresponding dual tableaux are built in a relational language which provides useful means of presentation of the theories In this way modularity of dual tableaux is ensured We do not need to develop and implement each dual tableau from scratch we should only extend the relational core common to many theories with the rules specific for a particular theory Logic for Programming, Artificial Intelligence, and Reasoning Robert Nieuwenhuis, Andrei Voronkov, 2001-11-21 This volume contains the papers presented at the Eighth International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 2001 held on December 3-7 2001 at the University of Havana Cuba together with the Second International Workshop on Implementation of Logics There were 112 submissions of which 19 belonged to the special submission category of experimental papers intended to describe implementations or comparisons of systems or experiments with systems Each submission was viewed by at least three program committee members and an electronic program committee meeting was held via the Internet The high number of submissions caused a large amount of work and we are very grateful to the other 31 PC members for their efficiency and for the quality of their reviews and discussions Finally the committee decided to accept 40 papers in the theoretical category and 9 experimental papers In addition to the refereed papers this volume contains an extended abstract of the invited talk by Frank Wolter Two other invited lectures were given by Matthias Baaz and Manuel Hermenegildo Apart from the program committee we would also like to thank the other people who made LPAR 2001 possible the additional referees the Local Arrangements Chair Luciano Garcia Andres Navarro and Oscar Guell who ran the internet based submission software and the program committee discussion software at the LSI Department lab in Barcelona and Bill McCune whose program committee management software was used **Time & Logic** Leonard Bolc, Andrzej Szalas, 2019-10-24 Originally published in 1995 Time and Logic examines understanding and application of temporal logic presented in computational terms The emphasis in the book is on presenting a broad range of approaches to computational applications The techniques used will also be applicable in many cases to formalisms beyond temporal logic alone and it is hoped that adaptation to many different logics of program will be facilitated Throughout the authors have kept implementation orientated solutions in mind The book begins with an introduction to the basic ideas of temporal logic Successive chapters examine particular aspects of the temporal theoretical computing domain relating their applications to familiar areas of research such as stochastic process theory automata theory established proof systems model checking relational logic and classical predicate logic This is an essential addition to the library of all theoretical computer scientists It

is an authoritative work which will meet the needs both of those familiar with the field and newcomers to it      Frontiers of Combining Systems Helene Kirchner, Christophe Ringeissen, 2006-12-30 This book constitutes the refereed proceedings of the Third International Workshop on Frontiers of Combining Systems FroCoS 2000 held in Nancy France in March 2000 The 14 revised full papers presented together with four invited papers were carefully reviewed and selected from a total of 31 submissions Among the topics covered are constraint processing interval narrowing rewriting systems proof planning sequent calculus type systems model checking theorem proving declarative programming logic programming and equational theories      *Many-Dimensional Modal Logics: Theory and Applications* A. Kurucz, F. Wolter, M. Zakharyashev, Dov M. Gabbay, 2003-10-21 Modal logics originally conceived in philosophy have recently found many applications in computer science artificial intelligence the foundations of mathematics linguistics and other disciplines Celebrated for their good computational behaviour modal logics are used as effective formalisms for talking about time space knowledge beliefs actions obligations provability etc However the nice computational properties can drastically change if we combine some of these formalisms into a many dimensional system say to reason about knowledge bases developing in time or moving objects To study the computational behaviour of many dimensional modal logics is the main aim of this book On the one hand it is concerned with providing a solid mathematical foundation for this discipline while on the other hand it shows that many seemingly different applied many dimensional systems e g multi agent systems description logics with epistemic temporal and dynamic operators spatio temporal logics etc fit in perfectly with this theoretical framework and so their computational behaviour can be analyzed using the developed machinery We start with concrete examples of applied one and many dimensional modal logics such as temporal epistemic dynamic description spatial logics and various combinations of these Then we develop a mathematical theory for handling a spectrum of abstract combinations of modal logics fusions and products of modal logics fragments of first order modal and temporal logics focusing on three major problems decidability axiomatizability and computational complexity Besides the standard methods of modal logic the technical toolkit includes the method of quasimodels mosaics tilings reductions to monadic second order logic algebraic logic techniques Finally we apply the developed machinery and obtained results to three case studies from the field of knowledge representation and reasoning temporal epistemic logics for reasoning about multi agent systems modalized description logics for dynamic ontologies and spatio temporal logics The genre of the book can be defined as a research monograph It brings the reader to the front line of current research in the field by showing both recent achievements and directions of future investigations in particular multiple open problems On the other hand well known results from modal and first order logic are formulated without proofs and supplied with references to accessible sources The intended audience of this book is logicians as well as those researchers who use logic in computer science and artificial intelligence More specific application areas are e g knowledge representation and reasoning in particular terminological temporal and spatial reasoning or reasoning about agents And we

also believe that researchers from certain other disciplines say temporal and spatial databases or geographical information systems will benefit from this book as well

**Key Features** Integrated approach to modern modal and temporal logics and their applications in artificial intelligence and computer science Written by internationally leading researchers in the field of pure and applied logic Combines mathematical theory of modal logic and applications in artificial intelligence and computer science Numerous open problems for further research Well illustrated with pictures and tables

*Catalogue of Artificial Intelligence Techniques* Alan Smaill, Alan Bundy, 2012-12-06 The purpose of the Catalogue of Artificial Intelligence Techniques is to promote interaction between members of the AI community It does this by announcing the existence of AI techniques and acting as a pointer into the literature Thus the AI community will have access to a common extensional definition of the field which will promote a common terminology discourage the reinvention of wheels and act as a clearing house for ideas and algorithms The catalogue is a reference work providing a quick guide to the AI techniques available for different jobs It is not intended to be a textbook like the Artificial Intelligence Handbook Intentionally it only provides a brief description of each technique with no extended discussion of its historical origin or how it has been used in particular AI programs The original version of the catalogue was hastily built in 1983 as part of the UK SERC DoI IKBS Architecture Study It was adopted by the UK Alvey Programme and during the life of the programme was both circulated to Alvey grant holders in hard copy form and maintained as an on line document A version designed for the international community was published as a paperback by Springer Verlag All these versions have undergone constant revision and refinement Springer Verlag has agreed to reprint the catalogue at frequent intervals in order to keep it up to date and this is the third edition of their paperback version

*Logic Programming and Nonmonotonic Reasoning* Francesco Calimeri, Giovambattista Ianni, Mirosław Truszczyński, 2015-09-14 This volume contains the refereed proceedings of the 13th International Conference on Logic Programming and Nonmonotonic Reasoning LPNMR 2015 held in September 2015 in Lexington KY USA The 290 long and 11 short papers presented together with 3 invited talks the paper reporting on the Answer Set Programming competition and four papers presented by LPNMR student attendees at the doctoral consortium were carefully reviewed and selected from 60 submissions LPNMR is a forum for exchanging ideas on declarative logic programming nonmonotonic reasoning and knowledge representation The aim of the LPNMR conferences is to facilitate interactions between researchers interested in the design and implementation of logic based programming languages and database systems and researchers who work in the areas of knowledge representation and nonmonotonic reasoning

**Computer Science -- Theory and Applications** Dima Grigoriev, 2006-05-15 The International Symposium on Computer Science in Russia CSR 2006 was held on June 8 12 2006 in St Petersburg Russia hosted by the Steklov Institute of Mathematics at St Petersburg

**Graph Grammars and Their Application to Computer Science** Janice Cuny, 1996-05-08 This book describes the functional properties and the structural organization of the members of the thrombospondin gene family These proteins comprise a family of extracellular

calcium binding proteins that modulate cellular adhesion migration and proliferation Thrombospondin 1 has been shown to function during angiogenesis wound healing and tumor cell metastasis

*Formal Methods in Programming and Their Applications* Dines Bjorner, Manfred Broy, Igor V. Pottosin, 1993-10-05 This volume comprises the papers selected for presentation at the international conference on Formal Methods in Programming and Their Applications held in Akademgorodok Novosibirsk Russia June July 1993 The conference was organized by the Institute of Informatics Systems of the Siberian Division of the Russian Academy of Sciences and was the first forum organized by the Institute which was entirely dedicated to formal methods The main scientific tracks of the conference were centered around formal methods of program development and program construction The papers in the book are grouped into the following parts formal semantics methods algebraic specification methods semantic program analysis and abstract interpretation semantics of parallelism logic of programs software specification and verification transformational development and program synthesis

**Semantic Grid: Model, Methodology, and Applications** Zhaohui Wu, Huajun Chen, 2008-11-16 Semantic Grid Model Methodology and Applications introduces to the science core technologies and killer applications First scientific issues of semantic grid systems are covered followed by two basic technical issues data level semantic mapping and service level semantic interoperating Two killer applications are then introduced to show how to build a semantic grid for specific application domains Although this book is organized in a step by step manner each chapter is independent Detailed application scenarios are also presented In 1990 Prof Wu invented the first KB system tool ZIPE based on C on a SUN platform He proposed the first coupling knowledge representing model Couplingua which embodies Rule Frame Semantic Network and Nerve Cell Network and supports symbol computing and data processing computing His current focus is on semantic web grid ubiquitous computing and their applications in the life sciences

*Artificial Intelligence Logic and Applications* Yixiang Chen, Songmao Zhang, 2022-12-09 This book constitutes refereed proceedings of the 2nd International Conference on Artificial Intelligence Logic and Applications 2022 held in Shanghai China from August 26 28 2022 The 20 full papers presented in this volume were carefully reviewed and selected from a total of 27 submissions The papers in the volume are organised according to the following topical headings program logic fuzzy logic applications author index

*ECAI 2000* European Coordinating Committee for Artificial Intelligence, 2000 This volume covers the whole spectrum of artificial intelligence including knowledge representation automated reasoning constraint based reasoning machine learning autonomous agents human language technology planning vision and robotics and AI aspects of uncertainty and of creativity The book further includes contributions on innovative application All contributions are peer reviewed by an international Programme Committee

Formal Methods for Computational Systems Biology Marco Bernardo, Pierpaolo Degano, Gianluigi Zavattaro, 2008-05-31 This book presents a set of 14 papers accompanying the lectures of leading researchers given at the 8th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems



SFM 2008 held in Bertinoro Italy in June 2008 SFM 2008 was devoted to formal techniques for computational systems biology and covered several aspects of the field including computational models calculi and logics for biological systems and verification and simulation methods The first part of this volume comprises nine papers based on regular lectures the second part of this volume comprises five papers based on talks given by people involved in the Italian BISCAs research project on Bio Inspired Systems and Calculi with Applications

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