

TEMPORAL LOGICS
AND THEIR
APPLICATIONS

Edited by
ANTONY GALTON

Temporal Logics And Their Applications

**Marianne Baudinet, Stanford
University. Computer Science
Department**



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

Temporal Logic and State Systems Fred Kröger, Stephan Merz, 2008-03-12 Temporal logic has developed over the last 30 years into a powerful formal setting for the specification and verification of state based systems Based on university lectures given by the authors this book is a comprehensive concise uniform up to date presentation of the theory and applications of linear and branching time temporal logic TLA Temporal Logic of Actions automata theoretical connections model checking and related theories All theoretical details and numerous application examples are elaborated carefully and with full formal rigor and the book will serve as a basic source and reference for lecturers graduate students and researchers

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

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

Dual Tableaux: Foundations, Methodology, Case Studies Ewa Orłowska, 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

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

Formal Methods in Programming and Their Applications Dines Björner, 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

Time And Logic Leonard Bolc, 1995-02-23 Time and logic are central driving concepts in science and technology In this book some of the major current developments in our understanding and application of temporal logic are presented in computational terms Time and Logic A Computational Approach should be a useful sourcebook for those within the specific field of temporal logic as well as providing valuable introductory material for those seeking an entry into this increasingly important area of theoretical computing The emphasis of the book is on presenting a broad range of approaches to computational applications The techniques used will also be applicable in many cases to formalize beyond temporal logic

alone and it is hoped that adaptation to many different logics of programmes will be facilitated Throughout the authors have kept implementation oriented solutions in mind The book begins with an introduction to the basic ideas of temporal logic Successive chapters then 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 should be a useful addition to the library of all theoretical computer scientists providing a synthesis of well established results in temporal logic with the most up to date findings of some of the world s leading theoreticians

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 query ing granularity of time update mechanisms active temporal data bases hypothetical reasoning Temporal Aspects in AI e g modelling temporal phenomena in terval 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 tempo ral statements Temporal Theorem Proving e g translation methods clausal and non clausal resolution tableaux automata theoretic approaches tools and practical systems

European Control Conference 1991 , 1991-07-02 Proceedings of the European Control Conference 1991 July 2 5 1991 Grenoble France

Logic and Reality B. Jack Copeland, Jack Copeland, 1996 A N Prior has a special place in the history of postwar philosophy for his highly original work at the intersection of logic and metaphysics His logical innovations have found many applications in the areas of philosophical logic mathematics linguistics and increasingly computer science In addition he made seminal contributions to debates in metaphysics particularly on modality and the nature of time This volume presents a selection of current research in the areas that were of most interest to Prior temporal and tense logic modal logic proof theory quantification and individuation and the logic of agency Both title and contents reflect Prior s view that logic is about the real world and the orientation of the volume is towards the application of logic in philosophy computer science and elsewhere Following Prior modal syntax is now widely applied to the formalization of a variety of subject matters

and tense logic has found numerous applications in computing for example in natural language processing logical deduction involving time dependent data program verification and VLSI A special feature of the volume is the inclusion of three hitherto unpublished pieces by Prior on modal logic and the philosophy of time along with a complete bibliography of Prior s published philosophical writings

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

Logic Programming Semantics Marianne Baudinet,Stanford University. Computer Science Department,1989

Proceedings of the ... International Joint Conference on Artificial Intelligence ,1991

Intensional Logics for Programming Luis Fariñas del Cerro,Martti Penttonen,1992 This volume is a collection of papers around the theme of extending the logic programming paradigm to the area of intensional logics Intensional logics play a central role in AI and computing as well as in the theoretical foundation of logic programming Intensional logic programming is one of the current frontline research areas of computational logics This not only helps the understanding of logic programs but will have a significant impact on future developments of logic programming itself

An Introduction to Global Spectral Modeling Jacobus Willem Bakker,W.-P. de Roever,Grzegorz Rozenberg,1989 This volume is based on the School Workshop on Linear Time Branching Time and Partial Order in Logics and Models for Concurrency organized by the editors and held in the period May 30 June 3 1988 at Noordwijkerhout The Netherlands The School Workshop was an activity of the project REX Research and Education in Concurrent Systems The volume contains tutorials and research contributions to the three approaches linear time branching time and partial order in semantics and proof theory of concurrent programs by the main specialists in this field It promotes an in depth understanding of the relative merits and disadvantages of these three approaches An introduction to the recent literature on the subject is provided by the invited research contributions

Publisher s website

On the Application of Temporal Logic to the Verification of Real-time Programs Paul Karl Harter,1985

Logics for Artificial Intelligence Raymond Turner,1984 In Logics for Artificial Intelligence Raymond Turner leads us on a whirl wind tour of nonstandard logics and their general applications to AI and computer science

SIGSOFT '90 Richard N. Taylor,1990

Protocol Specification, Testing, and Verification, IV Yechiam Yemini,Robert Strom,Shaula Yemini,1985 Hardbound This book covers research in protocol theory and analysis specification and formal models of protocols protocol validation and verification performance analysis of protocols and protocol design implementation and testing Main Features 1 Broad coverage of the research in the area of computer communication protocols 2 A combination of theoretical and experimental research on protocol modelling design analysis synthesis verification and testing 3 A description of international research activities conducted by leading researchers in the field from over 13 countries

Reviewing **Temporal Logics And Their Applications**: Unlocking the Spellbinding Force of Linguistics

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