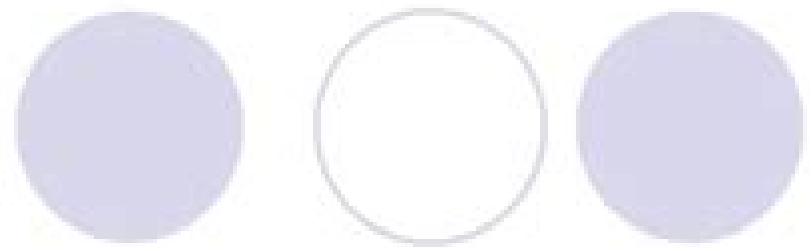


# Temporal Logic



- TL is used to describe **dynamic** behavior of programs.
- TL is used to **formulate properties** of **reactive programs** which do not compute an 'answer', but are intended to **run indefinitely** and still **correctly** exhibit dynamic behavior in response to **external stimuli**.
- A good example is the **clock system**.

Hour,  $hr \in \{1 \dots 12\}$ ; Minute,  $min \in \{1 \dots 60\}$

if  $hr < 12$  then  $hr' = hr + 1$  else  $hr' = 1$

*where  $hr'$  is the **next hour**. Property minute can change while the hour remains the same.*

# Temporal Logic Of Programs

**SJ Ball**



## **Temporal Logic Of Programs:**

**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

**Executing Temporal Logic Programs** B. C. Moszkowski, 1986-03-06 Temporal logic is gaining recognition as an attractive and versatile formalism for rigorously specifying and reasoning about computer programs digital circuits and message passing systems This book introduces Tempura a programming language based on temporal logic Tempura provides a way of directly executing suitable temporal logic specifications of digital circuits parallel programs and other dynamic systems Since every Tempura statement is also a temporal formula the entire temporal logic formalism can be used as the assertion language and semantics One result is that Tempura has the two seemingly contradictory properties of being a logic programming language and having imperative constructs such as assignment statements The presentation investigates Interval Temporal Logic a formalism with conventional temporal operators such as next and always as well as lesser known ones such as chop This provides the basis for Tempura The design of an interpreter for Tempura is also included as are a variety of sample Tempura programs illustrating how to model both hardware and software

**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

*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

**Executing Temporal Logic Programs** Ben Moszkowski, 1985 **An Introduction to Practical Formal Methods Using Temporal Logic** Michael Fisher, 2011-03-16 The name temporal logic may sound complex and daunting but while they describe potentially complex scenarios temporal logics are often based on a few simple and fundamental concepts

highlighted in this book *An Introduction to Practical Formal Methods Using Temporal Logic* provides an introduction to formal methods based on temporal logic for developing and testing complex computational systems. These methods are supported by many well developed tools, techniques and results that can be applied to a wide range of systems. Fisher begins with a full introduction to the subject covering the basics of temporal logic and using a variety of examples, exercises and pointers to more advanced work to help clarify and illustrate the topics discussed. He goes on to describe how this logic can be used to specify a variety of computational systems looking at issues of linking specifications, concurrency, communication and composition ability. He then analyses temporal specification techniques such as deductive verification, algorithmic verification and direct execution to develop and verify computational systems. The final chapter on case studies analyses the potential problems that can occur in a range of engineering applications in the areas of robotics, railway signalling, hardware design, ubiquitous computing, intelligent agents and information security and explains how temporal logic can improve their accuracy and reliability. Models temporal notions and uses them to analyze computational systems. Provides a broad approach to temporal logic across many formal methods including specification, verification and implementation. Introduces and explains freely available tools based on temporal logics and shows how these can be applied. Presents exercises and pointers to further study in each chapter as well as an accompanying website providing links to additional systems based upon temporal logic as well as additional material related to the book.

**Computational Logic: Logic Programming and Beyond** Antonis C. Kakas, Fariba Sadri, 2003-08-02 Alan Robinson This set of essays pays tribute to Bob Kowalski on his 60th birthday, an anniversary which gives his friends and colleagues an excuse to celebrate his career as an original thinker, a charismatic communicator and a forceful intellectual leader. The logic programming community hereby and herein conveys its respect and thanks to him for his pivotal role in creating and fostering the conceptual paradigm which is its *raison d'être*. The diversity of interests covered here reflects the variety of Bob's concerns. Read on! It is an intellectual feast. Before you begin, permit me to send him a brief personal but public message: Bob, how right you were and how wrong I was! I should explain. When Bob arrived in Edinburgh in 1967, resolution was as yet fairly new, having taken several years to become at all widely known. Research groups to investigate various aspects of resolution sprang up at several institutions, the one organized by Bernard Meltzer at Edinburgh University being among the first. For the half dozen years that Bob was a leading member of Bernard's group, I was a frequent visitor to it and I saw a lot of him. We had many discussions about logic computation and language.

Programming Language Implementation and Logic Programming Jaan Penjam, 1994-08-24 This volume constitutes the proceedings of the 6th International Symposium on Programming Language Implementation and Logic Programming PLILP 94 held in Madrid, Spain in September 1994. The volume contains 27 full research papers selected from 67 submissions as well as abstracts of full versions of 3 invited talks by renowned researchers and abstracts of 11 system demonstrations and poster presentations. Among the topics covered are parallelism and concurrency implementation.

techniques partial evaluation synthesis and language issues constraint programming meta programming and program transformation functional logic programming and program analysis and abstract interpretation

**Logic Programming** Philippe Codognet, 2001-11-14 This book constitutes the refereed proceedings of the 17th International Conference on Logic Programming ICLP 2001 held in Paphos Cyprus in November December 2001 The 23 revised full papers presented were carefully reviewed and selected from 64 submissions All current aspects of logic programming and computational logics are addressed

**The Imperative Future** Howard Barringer, 1996 *Logic Programming and Automated Reasoning* Harald Ganzinger, David McAllester, Andrei Voronkov, 2007-07-12 This volume contains the papers presented at the Sixth International Conference on Logic for Programming and Automated Reasoning LPAR 99 held in Tbilisi Georgia September 6 10 1999 and hosted by the University of Tbilisi Forty four papers were submitted to LPAR 99 Each of the submissions was reviewed by three program committee members and an electronic program committee meeting was held via the Internet Twenty three papers were accepted We would like to thank the many people who have made LPAR 99 possible We are grateful to the following groups and individuals to the program committee and the additional referees for reviewing the papers in a very short time to the organizing committee and to the local organizers of the INTAS workshop in Tbilisi in April 1994 Khimuri Rukhaia Konstantin Pkhakadze and Gela Chankvetadze And last but not least we would like to thank Konstantin rovin who maintained the program committee Web page Uwe Waldmann who supplied macros for these proceedings and helped us to install some programs for the electronic management of the program committee work and Bill McCune who implemented these programs

Logic Programming David S. Warren, 1993 The Tenth International Conference on Logic Programming sponsored by the Association for Logic Programming is a major forum for presentations of research applications and implementations in this important area of computer science Logic programming is one of the most promising steps toward declarative programming and forms the theoretical basis of the programming language Prolog and its various extensions Logic programming is also fundamental to work in artificial intelligence where it has been used for nonmonotonic and commonsense reasoning expert systems implementation deductive databases and applications such as computer aided manufacturing David S Warren is Professor of Computer Science at the State University of New York Stony Brook Topics covered Theory and Foundations Programming Methodologies and Tools Meta and Higher order Programming Parallelism Concurrency Deductive Databases Implementations and Architectures Applications Artificial Intelligence Constraints Partial Deduction Bottom Up Evaluation Compilation Techniques

**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

**Programming Languages: Implementations, Logics, and Programs**, 1995      *Logic Programming and Nonmonotonic Reasoning* Pedro Cabalar, Tran Cao Son, 2013-09-12 This volume contains the refereed proceedings of the 12th International Conference on Logic Programming and Nonmonotonic Reasoning LPNMR 2013 held in September 2013 in Corunna Spain The 34 revised full papers 22 technical papers 9 application description and 3 system descriptions and 19 short papers 11 technical papers 3 application descriptions and 5 system descriptions presented together with 2 invited talks were carefully reviewed and selected from 91 submissions Being a forum for exchanging ideas on declarative logic programming nonmonotonic reasoning and knowledge representation the conference aims to facilitate interactions between those researchers and practitioners interested in the design and implementation of logic based programming languages and database systems and those who work in the area of knowledge representation and nonmonotonic reasoning

The Temporal Logic of Programs Amir Pnueli, 1997      *Temporal Logic and State Systems* Fred Kröger, Stephan Merz, 2008-03-27 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 Szałas, 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

*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 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

**Temporal Logic for Real-time Systems** Jonathan S. Ostroff, 1989  
Providing a framework for modelling specifying and verifying systems composed of real time discrete event processes this text combines a formal framework in computer science with applications in software and control engineering

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