

**MODAL LOGIC
AND
PROCESS ALGEBRA**
A Bisimulation Perspective

Modal Logic And Process Algebra A Bisimulation Perspective

**Dov M. Gabbay, Michael
Zakharyashev**



Modal Logic And ProceB Algebra A Bisimulation Perspective:

Modal Logic and Process Algebra Alban Ponse, 2000 **Modal Logic and Process Algebra** Alban Ponse, 1995-01 A collection of papers by leading researchers in modal logic and theoretical computer science *Handbook of Process Algebra* J.A. Bergstra, A. Ponse, S.A. Smolka, 2001-03-16 Process Algebra is a formal description technique for complex computer systems especially those involving communicating concurrently executing components It is a subject that concurrently touches many topic areas of computer science and discrete math including system design notations logic concurrency theory specification and verification operational semantics algorithms complexity theory and of course algebra This Handbook documents the fate of process algebra since its inception in the late 1970 s to the present It is intended to serve as a reference source for researchers students and system designers and engineers interested in either the theory of process algebra or in learning what process algebra brings to the table as a formal system description and verification technique The Handbook is divided into six parts spanning a total of 19 self contained Chapters The organization is as follows Part 1 consisting of four chapters covers a broad swath of the basic theory of process algebra Part 2 contains two chapters devoted to the sub specialization of process algebra known as finite state processes while the three chapters of Part 3 look at infinite state processes value passing processes and mobile processes in particular Part 4 also three chapters in length explores several extensions to process algebra including real time probability and priority The four chapters of Part 5 examine non interleaving process algebras while Part 6 s three chapters address process algebra tools and applications **Advanced Topics in Bisimulation and Coinduction** Davide Sangiorgi, Jan Rutten, 2011-10-13 Coinduction is a method for specifying and reasoning about infinite data types and automata with infinite behaviour In recent years it has come to play an ever more important role in the theory of computing It is studied in many disciplines including process theory and concurrency modal logic and automata theory Typically coinductive proofs demonstrate the equivalence of two objects by constructing a suitable bisimulation relation between them This collection of surveys is aimed at both researchers and Master s students in computer science and mathematics and deals with various aspects of bisimulation and coinduction with an emphasis on process theory Seven chapters cover the following topics history algebra and coalgebra algorithmics logic higher order languages enhancements of the bisimulation proof method and probabilities Exercises are also included to help the reader master new material *Modal Logic* Patrick Blackburn, Maarten de Rijke, Yde Venema, 2002-08-22 This is an advanced 2001 textbook on modal logic a field which caught the attention of computer scientists in the late 1970s Researchers in areas ranging from economics to computational linguistics have since realised its worth The book is for novices and for more experienced readers with two distinct tracks clearly signposted at the start of each chapter The development is mathematical prior acquaintance with first order logic and its semantics is assumed and familiarity with the basic mathematical notions of set theory is required The authors focus on the use of modal languages as tools to analyze the properties of relational

structures including their algorithmic and algebraic aspects and applications to issues in logic and computer science such as completeness computability and complexity are considered Three appendices supply basic background information and numerous exercises are provided Ideal for anyone wanting to learn modern modal logic

Handbook of Modal Logic

Patrick Blackburn, Johan F.A.K. van Benthem, Frank Wolter, 2006-11-03 The Handbook of Modal Logic contains 20 articles which collectively introduce contemporary modal logic survey current research and indicate the way in which the field is developing The articles survey the field from a wide variety of perspectives the underlying theory is explored in depth modern computational approaches are treated and six major applications areas of modal logic in Mathematics Computer Science Artificial Intelligence Linguistics Game Theory and Philosophy are surveyed The book contains both well written expository articles suitable for beginners approaching the subject for the first time and advanced articles which will help those already familiar with the field to deepen their expertise Please visit http://people.uleth.ca/~woods/RedSeriesPromo_WP_PubSLPR.html Compact modal logic reference Computational approaches fully discussed Contemporary applications of modal logic covered in depth

Dick de Jongh on Intuitionistic and Provability Logics Nick Bezhanishvili, Rosalie Iemhoff, Fan

Yang, 2024-07-25 This book is dedicated to Dick de Jongh's contributions to the theory of intuitionistic and provability logics Consisting of 13 chapters written by leading experts this book discusses de Jongh's original contributions and consequent developments that have helped to shape these fields The book begins with an autobiographic note by Dick de Jongh which discusses the main themes of his work and places the other contributions in context The next four chapters explore the De Jongh Sambin fixed point theorem and other contributions to provability and interpretability logics The following four chapters focus on modal intuitionistic and intuitionistic modal logics They discuss independence of formulas unification and de Jongh formulas in intuitionistic and modal logics Then there follow two chapters on the other two areas to which Dick de Jongh made important contributions the theory of well partial orders and formal learning theory The second to last chapter on Origami Geometry can be seen as representing the Master of Logic program of the Institute for Logic Language and Computation ILLC in which de Jongh invested a lot of energy The book ends with a complete bibliography of Dick de Jongh in the last chapter This volume provides a vital overview and continuation of de Jongh's prolific work in the theory of intuitionistic and provability logics

Hajnal Andréka and István Németi on Unity of Science Judit Madarász, Gergely

Székelly, 2021-05-31 This book features more than 20 papers that celebrate the work of Hajnal Andréka and István Németi It illustrates an interaction between developing and applying mathematical logic The papers offer new results as well as surveys in areas influenced by these two outstanding researchers They also provide details on the after life of some of their initiatives Computer science connects the papers in the first part of the book The second part concentrates on algebraic logic It features a range of papers that hint at the intricate many way connections between logic algebra and geometry The third part explores novel applications of logic in relativity theory philosophy of logic philosophy of physics and spacetime and

methodology of science They include such exciting subjects as time travelling in emergent spacetime The short autobiographies of Hajnal Andr ka and Istv n N meti at the end of the book describe an adventurous journey from electric engineering and Maxwell s equations to a complex system of computer programs for designing Hungary s electric power system to exploring and contributing deep results to Tarskian algebraic logic as the deepest core theory of such questions then on to applications of the results in such exciting new areas as relativity theory in order to rejuvenate logic itself

Logic and the Modalities in the Twentieth Century Dov M. Gabbay, John Woods, 2006-05-10 Logic and the Modalities in the Twentieth Century is an indispensable research tool for anyone interested in the development of logic including researchers graduate and senior undergraduate students in logic history of logic mathematics history of mathematics computer science and artificial intelligence linguistics cognitive science argumentation theory philosophy and the history of ideas This volume is number seven in the eleven volume Handbook of the History of Logic It concentrates on the development of modal logic in the 20th century one of the most important undertakings in logic s long history Written by the leading researchers and scholars in the field the volume explores the logics of necessity and possibility knowledge and belief obligation and permission time tense and change relevance and more Both this volume and the Handbook as a whole are definitive reference tools for students and researchers in the history of logic the history of philosophy and any discipline such as mathematics computer science artificial intelligence for whom the historical background of his or her work is a salient consideration Detailed and comprehensive chapters covering the entire range of modal logic Contains the latest scholarly discoveries and interpretative insights that answer many questions in the field of logic *UML 2 Semantics and Applications* Kevin Lano, 2009-10-13 A coherent and integrated account of the leading UML 2 semantics work and the practical applications of UML semantics development With contributions from leading experts in the field the book begins with an introduction to UML and goes on to offer in depth and up to date coverage of The role of semantics Considerations and rationale for a UML system model Definition of the UML system model UML descriptive semantics Axiomatic semantics of UML class diagrams The object constraint language Axiomatic semantics of state machines A coalgebraic semantic framework for reasoning about interaction designs Semantics of activity diagrams Verification of UML models State invariants Model transformation specification and verification Additionally readers are provided with expert guidance on how to resolve semantic problems and a section on applications of UML semantics with model analysis UML 2 Semantics and Applications is an ideal resource for researchers and tool builders working in UML among others It is also an excellent textbook for postgraduate teaching and research **Introduction to Mathematical Logic** Elliott Mendelson, 2009-08-11 Retaining all the key features of the previous editions Introduction to Mathematical Logic Fifth Edition explores the principal topics of mathematical logic It covers propositional logic first order logic first order number theory axiomatic set theory and the theory of computability The text also discusses the major results of Godel Church *Encyclopedia of Parallel Computing*

David Padua,2011-09-08 Containing over 300 entries in an A Z format the Encyclopedia of Parallel Computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing Topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field The Encyclopedia is broad in scope covering machine organization programming languages algorithms and applications Within each area concepts designs and specific implementations are presented The highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searchers for immediate access to useful information Key concepts presented in the Encyclopedia of Parallel Computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as Cray supercomputers IBM s cell processor and Intel s multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems Topics covered Speedup Efficiency Isoefficiency Redundancy Amdahls law Computer Architecture Concepts Parallel Machine Designs Benmarks Parallel Programming concepts design Algorithms Parallel applications This authoritative reference will be published in two formats print and online The online edition features hyperlinks to cross references and to additional significant research Related Subjects supercomputing high performance computing distributed computing Gödel '96 Petr Hájek,2017-03-02 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again This volume the sixth publication in the Lecture Notes in Logic series collects the proceedings of the conference Logical Foundations of Mathematics Computer Science and Physics Kurt G del s Legacy held in Brno Czech Republic on the 90th anniversary of G del s birth The broad range of speakers who participated in this event affirms the continuing importance of G del s work in logic physics and the philosophy and foundations of mathematics and computer science The papers in this volume range over all these topics and contribute to our present understanding of them

Logic, Language, and Computation Martin Aher,Daniel Hole,Emil Jeřábek,Clemens Kupke,2015-05-04 This book constitutes the refereed proceedings of the 10th International Tbilisi Symposium on Logic Language and Computation TbiLLC 2013 held in Gudauri Georgia in September 2013 The conference series is centered around the interaction between logic language and computation The contributions represent these three fields and the symposia aim to foster interaction between them The book consists of 16 papers that were carefully reviewed and selected from 26 submissions Each paper has passed through a rigorous peer review process before being accepted for publication The volume also contains two

summaries of the tutorials that took place at the symposium the one on admissible rules and the one on the formal semantics of aspectual meaning from a cross linguistic perspective Mathematical Problems from Applied Logic I Dov M.

Gabbay, Michael Zakharyashev, 2006-07-02 Mathematical Problems from Applied Logic I presents chapters from selected world renowned logicians Important topics of logic are discussed from the point of view of their further development in light of requirements arising from their successful application in areas such as Computer Science and AI language An overview of the current state as well as open problems and perspectives are clarified in such fields as non standard inferences in description logics logic of provability logical dynamics and computability theory The book contains interesting contributions concerning the role of logic today including some unexpected aspects of contemporary logic and the application of logic

Mathematical Frameworks For Component Software: Models For Analysis And Synthesis Zhiming Liu, Jifeng He, 2006-11-29 The range of components technology is both wide and diverse but some common understanding is emerging through the ideas of model based development These include the notions of interfaces contracts services connectors and architectures Key issues in the application of the technology are becoming clearer including the consistent integration of different views of a component component composition component coordination and transformation for platforms However we still know little about theories that support analysis and synthesis of component based systems The distinct feature of this volume is its focus on mathematical models that identify the core concepts as first class modeling elements and its providing of techniques for integrating and relating them The volume contains eleven chapters by well established researchers writing from different perspectives Each chapter gives explicit definitions of components in terms of a set of key aspects and addresses some of the problems of integration and analysis of various views component specification component composition component coordination refinement and substitution and techniques for solving problems The concepts and techniques are motivated and explained with the help of examples and case studies Handbook of Proof Theory S.R. Buss, 1998-07-09 This

volume contains articles covering a broad spectrum of proof theory with an emphasis on its mathematical aspects The articles should not only be interesting to specialists of proof theory but should also be accessible to a diverse audience including logicians mathematicians computer scientists and philosophers Many of the central topics of proof theory have been included in a self contained expository of articles covered in great detail and depth The chapters are arranged so that the two introductory articles come first these are then followed by articles from core classical areas of proof theory the handbook concludes with articles that deal with topics closely related to computer science Information

Systems-correctness And Reusability - Selected Papers From The Is-core Workshop Roel J Wieringa, R B Feenstra, 1995-06-09 This volume contains papers on formal system specification The chapters treat algebraic specification temporal logic specification default specifications and deontic logic specification Applications include information systems distributed systems and real time systems One of the major themes in the book is the motivation to bring formal specification techniques

one step further towards realistic applications

Categorical Structures and Their Applications Werner G hler, Gerhard Preuss, Horst Herrlich, 2004 The book collects original research papers on applied categorical structures most of which have been presented at the North West European Category Seminar 2003 in Berlin The spectrum of these mathematical results reflects the varied interests of Horst Herrlich OCo one of the leading category theorists of the world OCo to whom this volume is dedicated in view of his 65th birthday The book contains applications of categorical methods in various branches of mathematics such as algebra analysis logic and topology as well as fuzzy structures and computer science At the end of the book the reader will find a complete list of Horst Herrlich OCOs publications The proceedings have been selected for coverage in OCo Index to Scientific Technical Proceedings ISTP ISI Proceedings OCo Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings OCo CC Proceedings OCo Engineering Physical Sciences **New Frontiers in Artificial Intelligence** Ken Satoh, Akihiro Inokuchi, Katashi Nagao, Takahiro Kawamura, 2008-02-26 The technology of arti cial intelligence is increasing its importance thanks to the rapid growth of the Internet and computer technology In Japan the annual conference series of JSAI The Japanese Society for Arti cial Intelligence has been playing a leading role in promoting AI research and selected papers of the annual conferences have been published in the LNAI series since 2003 This book consists of award papers from the 21st annual conference of JSAI JSAI 2007 and selected papers from the four co located workshops Seven papers were awarded among more than 335 presentations in the conference and 24 papers were selected from a total of 48 presentations in the co located workshops Logic and Engineering of Natural Language Semantics 2007 LENLS 2007 the International Workshop on Risk Informatics RI 2007 the 5th Wo shop on Learning with Logics and Logics for Learning LLLL 2007 and the 1st International Workshop on Juris informatics JURISIN 2007 The award papers from JSAI 2007 underwent a rigorous selection process Firstly recommendations were made from three people Session Chair session commentator and one PC member in each session and then recommended pers were carefully reviewed and voted for by PC members for nal selection

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