



STUDIES IN LOGIC
AND
THE FOUNDATIONS OF MATHEMATICS

VOLUME 148

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EDITORS

*Many-Dimensional
Modal Logics:
Theory and
Applications*

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Many Dimensional Modal Logics

Johan van Benthem



Many Dimensional Modal Logics:

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 *Multi-Dimensional Modal*

Logic Maarten Marx, Yde Venema, 1996-11-30 Modal Logic is a branch of logic with applications in many related disciplines such as computer science philosophy linguistics and artificial intelligence Over the last twenty years in all of these neighbouring fields modal systems have been developed that we call multi dimensional Our definition of multi dimensionality in modal logic is a technical one we call a modal formalism multi dimensional if in its intended semantics the universe of a model consists of states that are tuples over some more basic set This book treats such multi dimensional modal logics in a uniform way linking their mathematical theory to the research tradition in algebraic logic We will define and discuss a number of systems in detail focusing on such aspects as expressiveness definability axiomatics decidability and interpolation Although the book will be mathematical in spirit we take care to give motivations from the disciplines mentioned earlier on

Many-dimensional Modal Logics Dov M. Gabbay, 2003 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

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Yde Venema, 1989 **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 **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 **Cylindric-like**

Algebras and Algebraic Logic Hajnal Andréka, Miklós Ferenczi, István Németi, 2014-01-27 Algebraic logic is a subject in the interface between logic algebra and geometry it has strong connections with category theory and combinatorics Tarski's quest for finding structure in logic leads to cylindric like algebras as studied in this book they are among the main players in Tarskian algebraic logic Cylindric algebra theory can be viewed in many ways as an algebraic form of definability theory as a study of higher dimensional relations as an enrichment of Boolean Algebra theory or as logic in geometric form cylindric in the name refers to geometric aspects Cylindric like algebras have a wide range of applications in e.g. natural language theory data base theory stochastics and even in relativity theory The present volume consisting of 18 survey papers intends to give an overview of the main achievements and new research directions in the past 30 years since the publication of the Henkin Monk Tarski monographs It is dedicated to the memory of Leon Henkin

Frontiers of Combining Systems Silvio Ghilardi, Roberto Sebastiani, 2009-09-07 This volume contains the proceedings of the 7th International Symposium of Frontiers of Combining Systems FroCoS 2009 held during September 16-18 2009 in Trento Italy Previous FroCoS meetings were organized in Munich 1996 Amsterdam 1998 Nancy 2000 Santa Margherita Ligure 2002 Enna 2005 and Liverpool 2007 In 2004 2006 and 2008 FroCoS joined IJCAR the International Joint Conference on Automated Reasoning Like its predecessors FroCoS 2009 offered a forum for the presentation and discussion of research activities on the combination integration analysis modularization and interaction of formally defined systems with an emphasis on logic based ones These issues are important in many areas of computer science such as logic computation program development and verification artificial intelligence automated reasoning constraint solving declarative programming and symbolic computation There were 35 submissions to FroCoS 2009 Each submission was reviewed by at least three Program Committee members After a careful evaluation the committee decided to accept the 19 papers which are published in this volume The volume also includes four invited contributions by Alessandro Armando DIST Genova Thomas Eiter TU Wien Boris Motik OUCS Oxford and Ashish Tiwari SRI Stanford

The Bulletin of Symbolic Logic, 2008 **Products of Topological Modal Logics** Darko Sarenac, 2006 *Mathematical Reviews*, 2005 *Journal of Applied Non-classical Logics*, 2008 **The Prague Bulletin of Mathematical Linguistics**, 1997 **Computational Logic in Multi-agent Systems**, 2004 **Modal Logic for Open Minds** Johan van Benthem, 2010 In this work the author provides an introduction to the field of modal logic outlining its major ideas and exploring the numerous ways in which various academic fields have adopted it

Tools and Techniques in Modal Logic M. Kracht, 1999-06-17 This book treats modal logic as a theory with several subtheories such as completeness theory correspondence theory duality theory and transfer theory and is intended as a course in modal logic for students who have had prior contact with modal logic and who wish to study it more deeply It presupposes training in mathematical or logic Very little specific knowledge is presupposed most results which are needed are proved in this book

Many-sorted Logic and Its Applications K. Meinke, J. V. Tucker, 1993-03-09 Prominent experts present papers which

discuss problems regarding this subject Coverage includes case studies in the translation of logics for second order and propositional dynamic logic many sorted algebras and equational logic logical foundations of artificial intelligence along with a variety of methods that exist to encode information program verification techniques such as Floyd Hoare intermittent assertion and temporal logic of programs *Logics in AI.* ,1992

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