

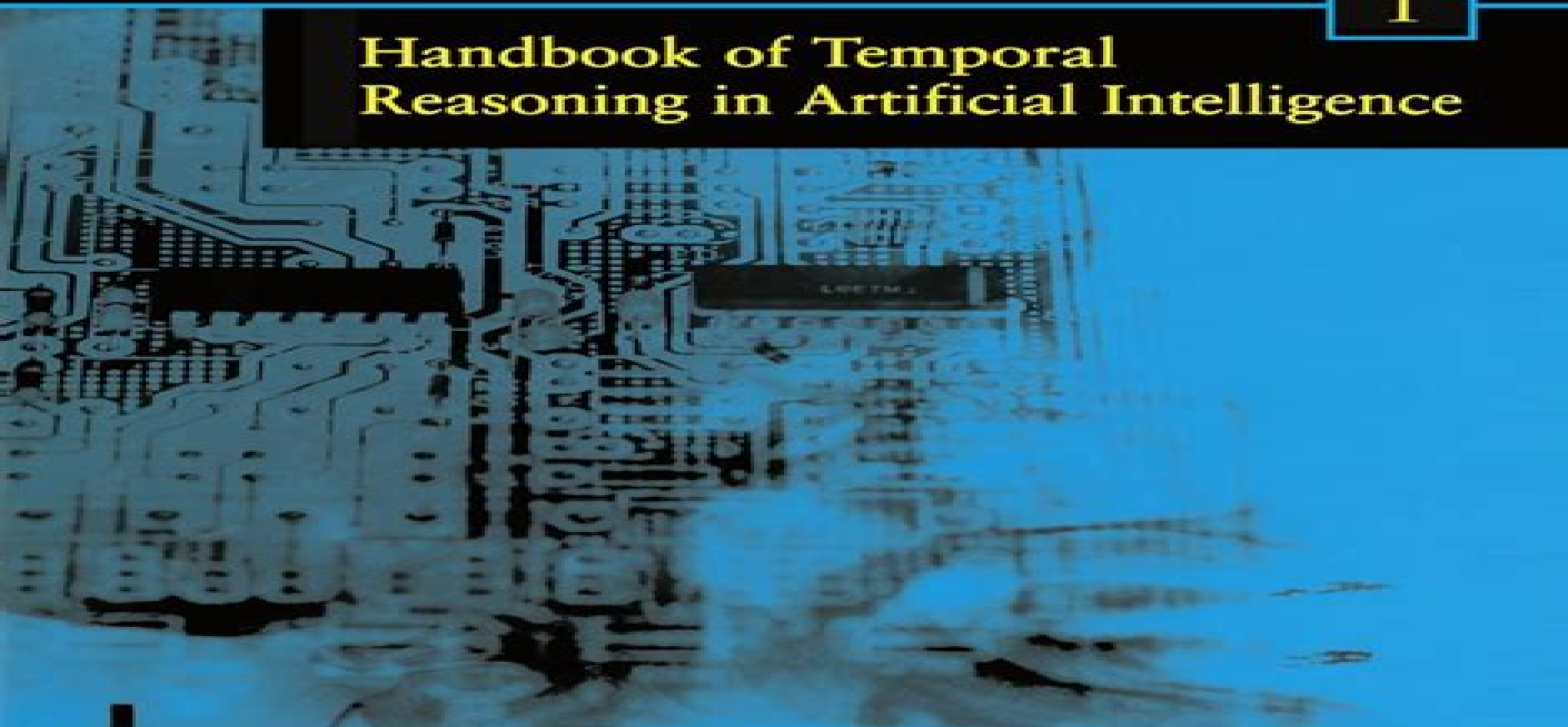


Foundations of ARTIFICIAL INTELLIGENCE

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Handbook of Temporal Reasoning in Artificial Intelligence



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Handbook Of Temporal Reasoning In Artificial Intelligence

Wolfgang Spohn



Handbook Of Temporal Reasoning In Artificial Intelligence:

Handbook of Temporal Reasoning in Artificial Intelligence Michael David Fisher,Dov M. Gabbay,Lluis Vila,2005-03-01 This collection represents the primary reference work for researchers and students in the area of Temporal Reasoning in Artificial Intelligence Temporal reasoning has a vital role to play in many areas particularly Artificial Intelligence Yet until now there has been no single volume collecting together the breadth of work in this area This collection brings together the leading researchers in a range of relevant areas and provides an coherent description of the breadth of activity concerning temporal reasoning in the filed of Artificial Intelligence Key Features Broad range foundations techniques and applications Leading researchers around the world have written the chapters Covers many vital applications Source book for Artificial Intelligence temporal reasoning Approaches provide foundation for many future software systems Broad range foundations techniques and applications Leading researchers around the world have written the chapters Covers many vital applications Source book for Artificial Intelligence temporal reasoning Approaches provide foundation for many future software systems

Logics in Artificial Intelligence Sarah Gaggl,Maria Vanina Martinez,Magdalena Ortiz,2023-09-23 This book constitutes proceedings of the 18th European Conference on Logics in Artificial Intelligence JELIA 2023 held in Dresden Germany in September 2023 The 41 full papers and 11 short papers included in this volume were carefully reviewed and selected from 111 submissions The accepted papers span a number of areas within Logics in AI including argumentation belief revision reasoning about actions causality and change constraint satisfaction description logics and ontological reasoning non classical logics and logic programming answer set programming

Proceedings of the Eighth International Scientific Conference “Intelligent Information Technologies for Industry” (IITI’24), Volume 2

Sergey Kovalev,Igor Kotenko,Andrey Sukhanov,Yin Li,Yao Li,2024-12-19 This book contains the works connected with the key advances in Intelligent Information Technologies for Industry presented at IITI 2024 the Eighth International Scientific Conference on Intelligent Information Technologies for Industry held on November 1 7 2024 in Harbin China The works were written by the experts in the field of applied artificial intelligence including topics such as Machine Learning Explainable AI Decision Making Fuzzy Logic Multi Agent and Bioinspired Systems including their modern applications The following industrial implementations were touched railway automation cyber security intelligent medical systems navigation systems The editors believe that this book will be helpful for all scientists and engineers interested in the modern state of applied artificial intelligence

Proceedings of the First International Scientific Conference “Intelligent Information Technologies for Industry” (IITI’16) Ajith Abraham,Sergey Kovalev,Valery Tarassov,Václav Snášel,2016-05-10 This volume of Advances in Intelligent Systems and Computing contains papers presented in the main track of IITI 2016 the First International Conference on Intelligent Information Technologies for Industry held in May 16 21 in Sochi Russia The conference was jointly co organized by Rostov State Transport University Russia and V B Technical University of Ostrava

Czech Republic with the participation of Russian Association for Artificial Intelligence RAAI and Russian Association for Fuzzy Systems and Soft Computing RAFSSC The volume is devoted to practical models and industrial applications related to intelligent information systems The conference has been a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries Nevertheless some theoretical talks concerning the state of the art in intelligent systems and soft computing are included in the proceedings as well Multiagent Systems, second edition Gerhard Weiss, 2016-10-28 The new edition of an introduction to multiagent systems that captures the state of the art in both theory and practice suitable as textbook or reference Multiagent systems are made up of multiple interacting intelligent agents computational entities to some degree autonomous and able to cooperate compete communicate act flexibly and exercise control over their behavior within the frame of their objectives They are the enabling technology for a wide range of advanced applications relying on distributed and parallel processing of data information and knowledge relevant in domains ranging from industrial manufacturing to e commerce to health care This book offers a state of the art introduction to multiagent systems covering the field in both breadth and depth and treating both theory and practice It is suitable for classroom use or independent study This second edition has been completely revised capturing the tremendous developments in multiagent systems since the first edition appeared in 1999 Sixteen of the book's seventeen chapters were written for this edition all chapters are by leaders in the field with each author contributing to the broad base of knowledge and experience on which the book rests The book covers basic concepts of computational agency from the perspective of both individual agents and agent organizations communication among agents coordination among agents distributed cognition development and engineering of multiagent systems and background knowledge in logics and game theory Each chapter includes references many illustrations and examples and exercises of varying degrees of difficulty The chapters and the overall book are designed to be self contained and understandable without additional material Supplemental resources are available on the book's Web site Contributors Rafael Bordini Felix Brandt Amit Chopra Vincent Conitzer Virginia Dignum Jürgen Dix Ed Durfee Edith Elkind Ulle Endriss Alessandro Farinelli Shaheen Fatima Michael Fisher Nicholas R Jennings Kevin Leyton Brown Evangelos Markakis Lin Padgham Julian Padget Iyad Rahwan Talal Rahwan Alex Rogers Jordi Sabater Mir Yoav Shoham Munindar P Singh Kagan Tumer Karl Tuyls Wiebe van der Hoek Laurent Vercouter Meritxell Vinyals Michael Winikoff Michael Wooldridge Shlomo Zilberstein **Logic, Language and Reasoning** Hans Jürgen Ohlbach, U. Reyle, 2012-12-06 This volume is dedicated to Dov Gabbay who celebrated his 50 birthday in October 1995 Dov is one of the most outstanding and most productive researchers we have ever met He has exerted a profound influence in major fields of logic linguistics and computer science His contributions in the areas of logic language and reasoning are so numerous that a comprehensive survey would already fill half of this book Instead of summarizing his work we decided to let him speak for himself Sitting in a car on the way to Amsterdam airport he gave an interview to Jelle Gerbrandy and Anne Marie Mineur

This recorded conversation with him which is included gives a deep insight into his motivations and into his view of the world the Almighty and of course the role of logic In addition this volume contains a partially annotated bibliography of his main papers and books The length of the bibliography and the broadness of the topics covered there speaks for itself

Knowledge-Driven Computing Carlos Cotta,Simeon Reich,Antoni Ligeza,2008-05-30 The main aim of this volume has been to gather together a selection of recent papers providing new ideas and solutions for a wide spectrum of Knowledge Driven Computing approaches More precisely the ultimate goal has been to collect new knowledge representation processing and computing paradigms which could be useful to practitioners involved in the area of discussion To this end contributions covering both theoretical aspects and practical solutions were preferred

Kripke's Worlds Olivier Gasquet,Andreas Herzig,Bilal Said,François Schwarzentruher,2013-11-20 Possible worlds models were introduced by Saul Kripke in the early 1960s Basically a possible world s model is nothing but a graph with labelled nodes and labelled edges Such graphs provide semantics for various modal logics alethic temporal epistemic and doxastic dynamic deontic description logics and also turned out useful for other nonclassical logics intuitionistic conditional several paraconsistent and relevant logics All these logics have been studied intensively in philosophical and mathematical logic and in computer science and have been applied increasingly in domains such as program semantics artificial intelligence and more recently in the semantic web Additionally all these logics were also studied proof theoretically The proof systems for modal logics come in various styles Hilbert style natural deduction sequents and resolution However it is fair to say that the most uniform and most successful such systems are tableaux systems Given logic and a formula they allow one to check whether there is a model in that logic This basically amounts to trying to build a model for the formula by building a tree This book follows a more general approach by trying to build a graph the advantage being that a graph is closer to a Kripke model than a tree It provides a step by step introduction to possible worlds semantics and by that to modal and other nonclassical logics via the tableaux method It is accompanied by a piece of software called LoTREC www.irit.fr/Lotrec LoTREC allows to check whether a given formula is true at a given world of a given model and to check whether a given formula is satisfiable in a given logic The latter can be done immediately if the tableau system for that logic has already been implemented in LoTREC If this is not yet the case LoTREC offers the possibility to implement a tableau system in a relatively easy way via a simple graph based interactive language

Formal Ontology in Information Systems Maureen Donnelly,Giancarlo Guizzardi,2012 The complex information systems which have evolved in recent decades rely on robust and coherent representations in order to function Such representations and associated reasoning techniques constitute the modern discipline of formal ontology which is now applied to fields such as artificial intelligence computational linguistics bioinformatics GIS conceptual modeling knowledge engineering information retrieval and the semantic web Ontologies are increasingly employed in a number of complex real world application domains For instance in biology and medicine more and more principle based ontologies are being

developed for the description of biological and biomedical phenomena To be effective such ontologies must work well together and as they become more widely used achieving coordinated development presents a significant challenge This book presents collected articles from the 7th International Conference on Formal Ontologies FOIS held in Graz Austria in July 2012 FOIS is a forum which brings together representatives of all major communities involved in the development and application of ontologies to explore both theoretical issues and concrete applications in the field The book is organized in eight sections each of which deals with the ontological aspects of bioinformatics physical entities artifacts and human resources ontology evaluation language and social relations time and events representation and the methodological aspects of ontological engineering Providing a current overview of developments in formal ontology this book will be of interest to all those whose work involves the application of ontologies and to anybody wishing to keep abreast of advances in the field

R-Calculus, V: Description Logics Wei Li, Yuefei Sui, 2024-01-05 This book series consists of two parts decidable description logics and undecidable description logics It gives the R calculi for description logics This book offers a rich blend of theory and practice It is suitable for students researchers and practitioners in the field of logic 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 OUCI Oxford and Ashish Tiwari SRI Stanford **Enterprise Information Systems** Joaquim Filipe, José Cordeiro, 2011-03-14 This book contains substantially extended and revised versions of the best papers from the 12th International Conference on Enterprise Information Systems ICEIS 2010 held in Funchal Madeira Portugal June 8 12 2010 Two invited papers are presented together with 39 contributions which were carefully reviewed and selected from 62 full papers presented at the conference out of 448 submissions They reflect state of the art research work that is often driven by real world applications thus successfully relating the academic with the industrial community The topics covered are databases and information systems integration artificial intelligence and decision support systems information systems analysis and specification software

agents and internet computing and human computer interaction **Frontiers of Combining Systems** Pascal Fontaine, Christophe Ringeissen, Renate Schmidt, 2013-09-11 This book constitutes the refereed proceedings of the 9th International Symposium on Frontiers of Combining Systems FroCoS 2013 held in Nancy France in September 2013 The 20 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 33 submissions FroCoS 13 seeks to offer a common forum for research in the general area of combination modularization and integration of systems with emphasis on logic based ones and of their practical use Typical topics of interest include following subjects combinations of logics such as combined predicate temporal modal or epistemic logics combinations and modularity in ontologies combination of decision procedures of satisfiability procedures and of constraint solving techniques combinations and modularity in term rewriting integration of equational and other theories into deductive systems combination of deduction systems and computer algebra integration of data structures into constraint logic programming and deduction and modularizing programs and specifications *Artificial Intelligence for Advanced Problem Solving Techniques* Vlahavas, Ioannis, Vrakas, Dimitris, 2008-01-31 One of the most important functions of artificial intelligence automated problem solving consists mainly of the development of software systems designed to find solutions to problems These systems utilize a search space and algorithms in order to reach a solution Artificial Intelligence for Advanced Problem Solving Techniques offers scholars and practitioners cutting edge research on algorithms and techniques such as search domain independent heuristics scheduling constraint satisfaction optimization configuration and planning and highlights the relationship between the search categories and the various ways a specific application can be modeled and solved using advanced problem solving techniques

ARTIFICIAL INTELLIGENCE Joost Nico Kok, 2009-12-20 Artificial Intelligence is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias The Theme on Artificial Intelligence provides the essential aspects and fundamentals of Artificial Intelligence Definition Trends Techniques and Cases Logic in Artificial Intelligence AI Computational Intelligence Knowledge Based System Development Tools It is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers **FM 2009: Formal Methods** Ana Cavalcanti, Dennis Dams, 2009-11-04 th FM 2009 the 16 International Symposium on Formal Methods marked the 10th anniversary of the First World Congress on Formal Methods that was held in 1999 in Toulouse France We wished to celebrate this by advertising and organizing FM 2009 as the Second World Congress in the FM series aiming to once again bring together the formal methods communities from all over the world The statistics displayed in the table on the next page include the number of countries represented by the Programme Committee members as well as of the authors of submitted and accepted papers Novel this year was a special track on tools and industrial applications Submissions of papers on these topics were especially encouraged but not given any special

treatment It was just as hard to get a special track paper accepted as any other paper What we did promote however was a discussion of how originality contri tion and soundness should be judged for these papers The following questions were used by our Programme Committee

Description Logic, Theory Combination, and All That Carsten Lutz,Uli Sattler,Cesare Tinelli,Anni-Yasmin Turhan, Frank Wolter,2019-06-25 This Festschrift has been put together on the occasion of Franz Baader s 60th birthday to celebrate his fundamental and highly influential scientific contributions The 30 papers in this volume cover several scientific areas that Franz Baader has been working on during the last three decades including description logics term rewriting and the combination of decision procedures We hope that readers will enjoy the articles gathered in Franz s honour and appreciate the breadth and depth of his favourite areas of computer science

Logic-Based Artificial Intelligence Jack Minker,2012-12-06 The use of mathematical logic as a formalism for artificial intelligence was recognized by John McCarthy in 1959 in his paper on Programs with Common Sense In a series of papers in the 1960 s he expanded upon these ideas and continues to do so to this date It is now 41 years since the idea of using a formal mechanism for AI arose It is therefore appropriate to consider some of the research applications and implementations that have resulted from this idea In early 1995 John McCarthy suggested to me that we have a workshop on Logic Based Artificial Intelligence LBAI In June 1999 the Workshop on Logic Based Artificial Intelligence was held as a consequence of McCarthy s suggestion The workshop came about with the support of Ephraim Glinert of the National Science Foundation IIS 9S2013S the American Association for Artificial Intelligence who provided support for graduate students to attend and Joseph JaJa Director of the University of Maryland Institute for Advanced Computer Studies who provided both manpower and financial support and the Department of Computer Science We are grateful for their support This book consists of refereed papers based on presentations made at the Workshop Not all of the Workshop participants were able to contribute papers for the book The common theme of papers at the workshop and in this book is the use of logic as a formalism to solve problems in AI

The Laws of Belief Wolfgang Spohn,2012-03-29 Wolfgang Spohn presents the first full account of the dynamic laws of belief by means of ranking theory a relative of probability theory which he has pioneered since the 1980s He offers novel insights into the nature of laws the theory of causation inductive reasoning and its experiential base and a priori principles of reason

Handbook of Artificial intelligence in psychology Farzin Forouzani Fard,2024-01-14 In the vast expanse of human understanding few domains captivate and baffle as much as the interplay between artificial intelligence AI and the intricacies of human psychology It signifies the merging of two separate realms each teeming with its unique complexities mysterious enigmas and profound implications Our journey through this book manifests as an exploration a quest to reveal the intricate dimensions of intellect language emotions cognition character and neuropsychology in this AI defined era

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