



KNOWLEDGE IN ACTION

Logical Foundations for
Specifying and Implementing
Dynamical Systems

RAYMOND REITER

Knowledge In Action Logical Foundations For Specifying And Implementing Dynamical Systems

Alexander Bochman



Knowledge In Action Logical Foundations For Specifying And Implementing Dynamical Systems:

Knowledge in Action Raymond Reiter, 2001-07-27 Specifying and implementing dynamical systems with the situation calculus Modeling and implementing dynamical systems is a central problem in artificial intelligence robotics software agents simulation decision and control theory and many other disciplines In recent years a new approach to representing such systems grounded in mathematical logic has been developed within the AI knowledge representation community This book presents a comprehensive treatment of these ideas basing its theoretical and implementation foundations on the situation calculus a dialect of first order logic Within this framework it develops many features of dynamical systems modeling including time processes concurrency exogenous events reactivity sensing and knowledge probabilistic uncertainty and decision theory It also describes and implements a new family of high level programming languages suitable for writing control programs for dynamical systems Finally it includes situation calculus specifications for a wide range of examples drawn from cognitive robotics planning simulation databases and decision theory together with all the implementation code for these examples This code is available on the book's Web site <http://www.cs.cmu.edu/~reiter/> , **Logic and Algorithms in Computational**

Linguistics 2021 (LCompLing2021) Roussanka Loukanova, Peter LeFanu Lumsdaine, Reinhard Muskens, 2023-03-11 This book assesses the place of logic mathematics and computer science in present day interdisciplinary areas of computational linguistics Computational linguistics studies natural language in its various manifestations from a computational point of view both on the theoretical level modeling grammar modules dealing with natural language form and meaning and the relation between these two and on the practical level developing applications for language and speech technology It is a collection of chapters presenting new and future research The book focuses mainly on logical approaches to computational processing of natural language and on the applicability of methods and techniques from the study of formal languages programming and other specification languages It presents work from other approaches to linguistics as well especially because they inspire new work and approaches **Machine Ethics and Robot Ethics** Wendell Wallach, Peter

Asaro, 2020-09-10 Once the stuff of science fiction recent progress in artificial intelligence robotics and machine learning means that these rapidly advancing technologies are finally coming into widespread use within everyday life Such rapid development in these areas also brings with it a host of social political and legal issues as well as a rise in public concern and academic interest in the ethical challenges these new technologies pose This volume is a collection of scholarly work from leading figures in the development of both robot ethics and machine ethics it includes essays of historical significance which have become foundational for research in these two new areas of study as well as important recent articles The research articles selected focus on the control and governance of computational systems the exploration of ethical and moral theories using software and robots as laboratories or simulations inquiry into the necessary requirements for moral agency and the basis and boundaries of rights and questions of how best to design systems that are both useful and morally sound

Collectively the articles ask what the practical ethical and legal issues arising from the development of robots will be over the next twenty years and how best to address these future considerations

Human - Computer Systems Interaction: Backgrounds and Applications 2 Zdzisław S. Hippe, Juliusz L. Kulikowski, Teresa Mroczek, 2011-11-15 This volume of the book contains a collection of chapters selected from the papers which originally in shortened form have been presented at the 3rd International Conference on Human Systems Interaction held in Rzeszow Poland in 2010 The chapters are divided into five sections concerning IV Environment monitoring and robotic systems V Diagnostic systems VI Educational Systems and VII General Problems The novel concepts and realizations of humanoid robots talking robots and orthopedic surgical robots as well as those of direct brain computer interface are examples of particularly interesting topics presented in Sec VI In Sec V the problems of skin cancer recognition colonoscopy diagnosis and brain strokes diagnosis as well as more general problems of ontology design for medical diagnostic knowledge are presented Example of an industrial diagnostic system and a concept of new algorithm for edges detection in computer analyzed images are also presented in this Section Among the educational systems in Sec VII the remote teaching and testing methods in higher education a neurophysiological approach to aiding the learning process an entrepreneurship education system and a magnetic levitation laboratory systems are presented Sec VII contains papers devoted to selected general human computer systems interaction problems Among them the problems of rules formulation for automatic reasoning creation of ontologies Boolean recommenders in decision systems and languages for proteins structural similarity description can be mentioned The chapters included into both I and II volumes of the book illustrate a large variety of problems arising and methods used in the rapidly developing Human System Interaction research domain

Multi-Agent Programming: Rafael H. Bordini, Mehdi Dastani, Jürgen Dix, Amal El Fallah Seghrouchni, 2009-06-13 Multi Agent Systems are a promising technology to develop the next generation open distributed complex software systems The main focus of the research community has been on the development of concepts concerning both mental and social attitudes architectures techniques and general approaches to the analysis and specification of multi agent systems This contribution has been fragmented without any clear way of putting it all together rendering it inaccessible to students and young researchers non experts and practitioners Successful multi agent systems development is guaranteed only if we can bridge the gap from analysis and design to effective implementation Multi Agent Programming Languages Tools and Applications presents a number of mature and influential multi agent programming languages platforms development tools and methodologies and realistic applications summarizing the state of the art in an accessible manner for professionals and computer science students at all levels

Smart Technologies for Precision Assembly Svetan Ratchev, 2021-04-01 This open access book constitutes the refereed post conference proceedings of the 9th IFIP WG 5.5 International Precision Assembly Seminar IPAS 2020 held virtually in December 2020 The 16 revised full papers and 10 revised short papers presented together with 1 keynote paper were carefully reviewed and selected from numerous

submissions The papers address topics such as assembly design and planning assembly operations assembly cells and systems human centred assembly and assistance methods in assembly

Declarative Agent Languages and Technologies II João Leite, Andrea Omicini, Paolo Torroni, Pinar Yolum, 2005-06-20 The second edition of the workshop on Declarative Agent Languages and Technologies DALT 2004 was held July 2004 in New York City and was a great success We saw a significant increase in both the number of submitted papers and workshop attendees from the first meeting held July 2003 in Melbourne Nearly 40 research groups worldwide were motivated to contribute to this event by submitting their most recent research achievements covering a wide variety of the topics listed in the call for papers More than 30 top researchers agreed to join the Program Committee which then collectively faced the hard task of selecting the one day event program The fact that research in multi agent systems is no longer only a novel and promising research horizon at dawn is in our opinion the main reason behind DALT's still short success story On the one hand agent theories and applications are mature enough to model complex domains and scenarios and to successfully address a wide range of multifaceted problems thus creating the urge to make the best use of this expressive and versatile paradigm and also profit from all the important results achieved so far On the other hand building multi agent systems still calls for models and technologies that could ensure system predictability accommodate exhibit heterogeneity and openness and enable system verification

Mechanisms, Symbols, and Models Underlying Cognition José Mira, José R. Álvarez, 2005-06-09 The two volume set LNCS 3561 and LNCS 3562 constitute the refereed proceedings of the First International Work Conference on the Interplay between Natural and Artificial Computation IWINAC 2005 held in Las Palmas Canary Islands Spain in June 2005 The 118 revised papers presented are thematically divided into two volumes the first includes all the contributions mainly related with the methodological conceptual formal and experimental developments in the fields of Neurophysiology and cognitive science The second volume collects the papers related with bioinspired programming strategies and all the contributions related with the computational solutions to engineering problems in different application domains

Advances in Intelligent Process-Aware Information Systems Gregor Grambow, Roy Oberhauser, Manfred Reichert, 2017-05-22 This book provides a state of the art perspective on intelligent process aware information systems and presents chapters on specific facets and approaches applicable to such systems Further it highlights novel advances and developments in various aspects of intelligent process aware information systems and business process management systems Intelligence capabilities are increasingly being integrated into or created in many of today's software products and services Process aware information systems provide critical computing infrastructure to support the various processes involved in the creation and delivery of business products and services Yet the integration of intelligence capabilities into process aware information systems is a non trivial yet necessary evolution of these complex systems The book's individual chapters address adaptive process management case management processes autonomically capable processes process oriented information logistics process recommendations

reasoning over process models process portability and business process intelligence The primary target groups are researchers and PhD Master students in the field of information systems Logics in Artificial Intelligence Michael Fisher, Wiebe van der Hoek, Boris Konev, Alexei Lisitsa, 2006-09-14 This book constitutes the refereed proceedings of the 10th European Conference on Logics in Artificial Intelligence JELIA 2006 The 34 revised full papers and 12 revised tool description papers presented together with 3 invited talks were carefully reviewed and selected from 96 submissions The papers cover a range of topics within the remit of the Conference such as logic programming description logics non monotonic reasoning agent theories automated reasoning and machine learning Krister Segerberg on Logic of Actions Robert Trypuz, 2013-10-22 This volume describes and analyzes in a systematic way the great contributions of the philosopher Krister Segerberg to the study of real and doxastic actions Following an introduction which functions as a roadmap to Segerberg's works on actions the first part of the book covers relations between actions intentions and routines dynamic logic as a theory of action agency and deontic logics built upon the logics of actions The second section explores belief revision and update iterated and irrevocable beliefs change dynamic doxastic logic and hypertheories Segerberg has worked for more than thirty years to analyze the intricacies of real and doxastic actions using formal tools mostly modal dynamic logic and its semantics He has had such a significant impact on modal logic that It is hard to roam for long in modal logic without finding Krister Segerberg's traces as Johan van Benthem notes in his chapter of this book **A Logical Theory of Causality** Alexander Bochman, 2021-08-17 A general formal theory of causal reasoning as a logical study of causal models reasoning and inference In this book Alexander Bochman presents a general formal theory of causal reasoning as a logical study of causal models reasoning and inference basing it on a supposition that causal reasoning is not a competitor of logical reasoning but its complement for situations lacking logically sufficient data or knowledge Bochman also explores the relationship of this theory with the popular structural equation approach to causality proposed by Judea Pearl and explores several applications ranging from artificial intelligence to legal theory including abduction counterfactuals actual and proximate causality dynamic causal models and reasoning about action and change in artificial intelligence As logical preparation before introducing causal concepts Bochman describes an alternative situation based semantics for classical logic that provides a better understanding of what can be captured by purely logical means He then presents another prerequisite outlining those parts of a general theory of nonmonotonic reasoning that are relevant to his own theory These two components provide a logical background for the main two tier formalism of the causal calculus that serves as the formal basis of his theory He presents the main causal formalism of the book as a natural generalization of classical logic that allows for causal reasoning This provides a formal background for subsequent chapters Finally Bochman presents a generalization of causal reasoning to dynamic domains *Epistemology, Context, and Formalism* Franck Lihoreau, Manuel Rebuschi, 2014-01-17 The main purpose of the present volume is to advance our understanding of the notions of knowledge

and context the connections between them and the ways in which they can be modeled in particular formalized a question of prime importance and utmost relevance to such diverse disciplines as philosophy linguistics computer science and artificial intelligence and cognitive science Bringing together essays written by world leading experts and emerging researchers in epistemology logic philosophy of language linguistics and theoretical computer science the book examines the formal modeling of knowledge and the knowledge context link at one or more of three intersections context and epistemology epistemology and formalism formalism and context and presents a novel range of approaches to the current discussions that the connections between knowledge language action reasoning and context continually enlivens It develops powerful ideas that will push the relevant fields forward and give a sense of the new directions in which mainstream and formal research on knowledge and context is heading

Expert Systems Petrică Vizureanu, 2010-01-01 Expert systems represent a branch of artificial intelligence aiming to take the experience of human specialists and transfer it to a computer system The knowledge is stored in the computer which by an execution system inference engine is reasoning and derives specific conclusions for the problem The purpose of expert systems is to help and support user s reasoning but not by replacing human judgement In fact expert systems offer to the inexperienced user a solution when human experts are not available This book has 18 chapters and explains that the expert systems are products of artificial intelligence branch of computer science that seeks to develop intelligent programs What is remarkable for expert systems is the applicability area and solving of different issues in many fields of architecture archeology commerce trade education medicine to engineering systems production of goods and control diagnosis problems in many industrial branches

AI*IA 2003: Advances in Artificial Intelligence Associazione italiana per l'intelligenza artificiale. Congress, Amedeo Cappelletti, 2003-09-24 This book constitutes the refereed proceedings of the 8th Congress of the Italian Association for Artificial Intelligence AI IA 2003 held in Pisa Italy in September 2003 The 44 revised full papers presented were carefully reviewed and selected from 91 submissions The papers are organized in topical sections on knowledge representation and reasoning soft computing machine learning data mining intelligent agents planning robotics natural language processing and applications in various fields

An Introduction to Lifted Probabilistic Inference Guy Van den Broeck, Kristian Kersting, Sriraam Natarajan, David Poole, 2021-08-17 Recent advances in the area of lifted inference which exploits the structure inherent in relational probabilistic models Statistical relational AI StaRAI studies the integration of reasoning under uncertainty with reasoning about individuals and relations The representations used are often called relational probabilistic models Lifted inference is about how to exploit the structure inherent in relational probabilistic models either in the way they are expressed or by extracting structure from observations This book covers recent significant advances in the area of lifted inference providing a unifying introduction to this very active field After providing necessary background on probabilistic graphical models relational probabilistic models and learning inside these models the book turns to lifted inference first covering exact inference and then approximate inference In addition the book

considers the theory of liftability and acting in relational domains which allows the connection of learning and reasoning in relational domains *Research and Practical Issues of Enterprise Information Systems II Volume 1* Li D. Xu,A. Min Tjoa,Sohail S. Chaudhry,2007-10-09 This volume presents work from the IFIP TC 8 WG 8 9 International Conference on the Research and Practical Issues of Enterprise Information Systems CONFENIS 2007 Enterprise information systems EIS have become increasingly popular EIS integrate and support business processes across functional boundaries in a supply chain environment In recent years more and more enterprises world wide have adopted EIS such as Enterprise Resource Planning ERP for running their businesses **Robotics and Smart Autonomous Systems** Rashmi Priyadarshini,Ram Mohan Mehra,Amit Sehgal,Prabhu Jyot Singh,2024-11-25 The text discusses fundamental advanced concepts and applications of robotics and autonomous systems It further discusses important topics such as robotics techniques in the manufacturing sector applications of smart autonomous systems in the healthcare sector resource optimization in mobile robotics and smart autonomous transport systems Features Covers design and application aspects of robotic systems for implementing the concepts of smart manufacturing with reduced human intervention better accuracy and enhanced production capacity Discusses techniques including supervised learning unsupervised learning and reinforced learning with real life examples Highlights a unified intermodal approach for automated transportation including cars trucks ships and port management Explains the mechanical design of planetary rovers and the mechanical design of space manipulators actuators and sensors Presents programming tools and platforms for autonomous robotic systems The book is primarily written for senior undergraduates graduate students and academic researchers in fields including electrical engineering electronics and communications engineering computer science and engineering and automotive engineering *Ubiquitous Intelligence and Computing* Frode Eika Sandnes,Yan Zhang,Rong Chunming,Laurence Tianruo Yang,2008-06-16 This volume contains the proceedings of UIC 2008 the 5th International Conference on Ubiquitous Intelligence and Computing Building Smart Worlds in Real and Cyber Spaces The conference was held in Oslo Norway during June 23 25 2008 The event was the 5th meeting of this conference series USW 2005 First International Workshop on Ubiquitous Smart World held in March 2005 in Taiwan was the 1st event in the series This event was followed by UISW 2005

Second International Symposium on Ubiquitous Intelligence and Smart Worlds held in December 2005 in Japan by UIC 2006 Third International Conference on Ubiquitous Intelligence and Computing Building Smart Worlds in Real and Cyber Spaces held in September 2006 in Wuhan and Three Gorges China and by UIC 2007 held in July 2007 in Hong Kong Ubiquitous computers networks and information are paving the road to a smart world in which computational intelligence is distributed throughout the physical environment to provide trustworthy and relevant services to people

Whispering the Techniques of Language: An Psychological Journey through **Knowledge In Action Logical Foundations For Specifying And Implementing Dynamical Systems**

In a digitally-driven world where monitors reign great and immediate connection drowns out the subtleties of language, the profound strategies and mental nuances hidden within phrases usually get unheard. Yet, situated within the pages of **Knowledge In Action Logical Foundations For Specifying And Implementing Dynamical Systems** a interesting fictional prize pulsating with fresh feelings, lies an exceptional journey waiting to be undertaken. Penned by an experienced wordsmith, this enchanting opus attracts viewers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the emotional depths with this moving evaluation, we will embark upon a honest exploration of the book is core themes, dissect its fascinating writing type, and fail to the powerful resonance it evokes strong within the recesses of readers hearts.

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Knowledge In Action Logical Foundations For Specifying And Implementing Dynamical Systems Introduction

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