

The background of the cover features a large, faint, light-blue geometric diagram. It consists of a circle with several lines intersecting at its center and extending towards its circumference. Some of these lines have arrows pointing outwards. In the upper-left quadrant, a portion of this circle is shaded in a darker blue. In the lower-right quadrant, there is a smaller, more detailed version of this geometric diagram, also with a shaded segment and arrows.

RECENT ADVANCES IN QUALITATIVE PHYSICS

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BOI FALTINGS AND PETER STRUSS

Recent Advances In Qualitative Physics Artificial Intelligence

James L. Rash



Recent Advances In Qualitative Physics Artificial Intelligence:

Recent Advances in Qualitative Physics Boi Faltings, Peter Struss, 1992 These twenty eight contributions report advances in one of the most active research areas in artificial intelligence Qualitative modeling techniques are an essential part of building second generation knowledge based systems This book provides a timely overview of the field while also giving some indications about applications that appear to be feasible now or in the near future Chapters are organized into sections covering modeling and simulation ontologies computational issues and qualitative analysis Modeling a physical system in order to simulate it or solve particular problems regarding the system is an important motivation of qualitative physics involving formal procedures and concepts The chapters in the section on modeling address the problem of how to set up and structure qualitative models particularly for use in simulation Ontology or the science of being is the basis for all modeling Accordingly chapters on ontologies discuss problems fundamental for finding representational formalism and inference mechanisms appropriate for different aspects of reasoning about physical systems Computational issues arising from attempts to turn qualitative theories into practical software are then taken up In addition to simulation and modeling qualitative physics can be used to solve particular problems dealing with physical systems and the concluding chapters present techniques for tasks ranging from the analysis of behavior to conceptual design

Recent Advances in Qualitative Physics Boi Faltings, Peter Struss, 1992-10 These twenty eight contributions report advances in one of the most active research areas in artificial intelligence Qualitative modeling techniques are an essential part of building second generation knowledge based systems This book provides a timely overview of the field while also giving some indications about applications that appear to be feasible now or in the near future Chapters are organized into sections covering modeling and simulation ontologies computational issues and qualitative analysis Modeling a physical system in order to simulate it or solve particular problems regarding the system is an important motivation of qualitative physics involving formal procedures and concepts The chapters in the section on modeling address the problem of how to set up and structure qualitative models particularly for use in simulation Ontology or the science of being is the basis for all modeling Accordingly chapters on ontologies discuss problems fundamental for finding representational formalism and inference mechanisms appropriate for different aspects of reasoning about physical systems Computational issues arising from attempts to turn qualitative theories into practical software are then taken up In addition to simulation and modeling qualitative physics can be used to solve particular problems dealing with physical systems and the concluding chapters present techniques for tasks ranging from the analysis of behavior to conceptual design Boi Faltings is Associate Professor of Computer Science at the Swiss Federal Institute of Technology Lausanne Peter Struss is Head of the Advanced Reasoning Methods Group at Siemens Corporate Research and Development in Munich

Recent Advances in Artificial Intelligence Research and Development Jordi Vitrià, Petia Radeva, Isabel Aguiló, 2004 Artificial Intelligence AI is a scientific field of longstanding tradition with origins in

the early years of computer science Today AI has reached a level of maturity that allows us to build highly sophisticated systems which perform very different tasks Nevertheless its evolution has opened up a number of new problems ranging from specific algorithms to system integration which remain elusive and assure a long life for this research field Research progress in this area is today an international challenge that must be supported by world class meetings and organizations but in spite of this fact there is also an objective need for meetings and organizations that support and disseminate research at other levels This book focuses on new and original research on Artificial Intelligence Artificial Intelligence and Symbolic Mathematical Computing Jacques Calmet, John A. Campbell, 1993-10-05 This volume contains the papers updated in some cases presented at the first AISMC Artificial Intelligence and Symbolic Mathematical Computations conference held in Karlsruhe August 3 6 1992 This was the first conference to be devoted to such a topic after a long period when SMC made no appearance in AI conferences though it used to be welcome in the early days of AI Some conferences were held recently on mathematics and AI but none was directly comparable in scope to this conference Because of the novelty of the domain authors were given longer allocations of time than usual in which to present their work As a result extended and fruitful discussions followed each paper The introductory chapter in this book which was not presented during the conference reflects in many ways the flavor of these discussions and aims to set out the framework for future activities in this domain of research In addition to the introduction the volume contains 20 papers

Thermodynamic Optimization of Complex Energy Systems Adrian Bejan, Eden Mamut, 2012-12-06 A comprehensive assessment of the methodologies of thermodynamic optimization exergy analysis and thermoeconomics and their application to the design of efficient and environmentally sound energy systems The chapters are organized in a sequence that begins with pure thermodynamics and progresses towards the blending of thermodynamics with other disciplines such as heat transfer and cost accounting Three methods of analysis stand out entropy generation minimization exergy or availability analysis and thermoeconomics The book reviews current directions in a field that is both extremely important and intellectually alive Additionally new directions for research on thermodynamics and optimization are revealed

Artificial Intelligence in Real-Time Control 1992 M.G. Rodd, H.B. Verbruggen, 2014-06-28 The symposium had two main aims to investigate the state of the art in the application of artificial intelligence techniques in real time control and to bring together control system specialists artificial intelligence specialists and end users Many professional engineers working in industry feel that the gap between theory and practice in applying control and systems theory is widening despite efforts to develop control algorithms Papers presented at the meeting ranged from the theoretical aspects to the practical applications of artificial intelligence in real time control Themes were the methodology of artificial intelligence techniques in control engineering the application of artificial intelligence techniques in different areas of control and hardware and software requirements This symposium showed that there exist alternative possibilities for control based on artificial intelligence techniques

Building Problem Solvers Kenneth D.

Forbus, Johan De Kleer, 1993 After working through Building Problem Solvers readers should have a deep understanding of pattern directed inference systems constraint languages and truth maintenance systems **Qualitative Reasoning**

Benjamin Kuipers, 1994 Qualitative models are better able than traditional models to express states of incomplete knowledge about continuous mechanisms Qualitative simulation guarantees to find all possible behaviors consistent with the knowledge in the model This expressive power and coverage is important in problem solving for diagnosis design monitoring explanation and other applications of artificial intelligence **Artificial Intelligence in Perspective** Daniel Gureasko Bobrow, 1994

This major collection of short essays reviews the scope and progress of research in artificial intelligence over the past two decades Seminal and most cited papers from the journal Artificial Intelligence are revisited by the authors who describe how their research has been developed both by themselves and by others since the journals first publication The twenty eight papers span a wide variety of domains including truth maintenance systems and qualitative process theory chemical structure analysis diagnosis of faulty circuits and understanding visual scenes they also span a broad range of methodologies from AI s mathematical foundations to systems architecture The volume is dedicated to Allen Newell and concludes with a section of fourteen essays devoted to a retrospective on the strength and vision of his work Sections Contributors Artificial Intelligence in Perspective D G Bobrow Foundations J McCarthy R C Moore A Newell N J Nilsson J Gordon and E H Shortliffe J Pearl A K Mackworth and E C Freuder J de Kleer Vision H G Barrow and J M Tenenbaum B K P Horn and B Schunck K Ikeuchi T Kanade Qualitative Reasoning J de Kleer K D Forbus B J Kuipers Y Iwasake and H A Simon Diagnosis R Davis M R Genesereth P Szolovits and S G Pauker R Davis B G Buchanan and E H Shortliffe W J Clancey Architectures J S Aikins B Hayes Roth M J Stefik et al Systems R E Fikes and N J Nilsson E A Feigenbaum and B G Buchanan J McDermott Allen Newell H A Simon M J Stefik and S W Smoliar M A Arbib D C Dennett Purves R C Schank and M Y Jona P S Rosenbloom and J E Laird P E Agre **Computational Discovery of Scientific Knowledge** Saso Dzeroski, Ljupco Todorovski, 2007-08-07 This

survey provides an introduction to computational approaches to the discovery of communicable scientific knowledge and details recent advances It is partly inspired by the contributions of the International Symposium on Computational Discovery of Communicable Knowledge held in Stanford CA USA in March 2001 a number of additional invited contributions provide coverage of recent research in computational discovery *Spatial and Temporal Reasoning* O. Stock, 2007-07-27 Qualitative reasoning about space and time a reasoning at the human level promises to become a fundamental aspect of future systems that will accompany us in daily activity The aim of Spatial and Temporal Reasoning is to give a picture of current research in this area focusing on both representational and computational issues The picture emphasizes some major lines of development in this multifaceted constantly growing area The material in the book also shows some common ground and a novel combination of spatial and temporal aspects of qualitative reasoning Part I presents the overall scene The chapter by Laure Vieu is on the state of the art in spatial representation and reasoning and that by Alfonso Gerevini gives a similar

survey on research in temporal reasoning The specific contributions to these areas are then grouped in the two main parts In Part II Roberto Casati and Achille Varzi examine the ontological status of spatial entities Anthony Cohn Brandon Bennett John Gooday and Nicholas Gotts present a detailed theory of reasoning with qualitative relations about regions Andrew Frank discusses the spatial needs of geographical information systems and Annette Herskovits focuses on the linguistic expression of spatial relations In Part III James Allen and George Ferguson describe an interval temporal logic for the representation of actions and events Drew McDermott presents an efficient way of predicting the outcome of plan execution and Erik Sandewall introduces a semantics based on transitions for assessing theories of action and change In Part IV Antony Galton's chapter stands clearly between the two areas of space and time and outlines the main coordinates of an integrated approach

AI 2001: Advances in Artificial Intelligence Markus Stumptner, 2001-11-28 This book constitutes the refereed proceedings of the 14th Australian Joint Conference on Artificial Intelligence AI 2001 held in Adelaide Australia in December 2001 The 55 revised full papers presented together with one invited contribution were carefully reviewed and selected from a total of 100 submissions The papers cover the whole range of artificial intelligence from theoretical and foundational issues to advanced applications in a variety of fields Advanced Topics in Artificial Intelligence Rolf T. Nossum, 1988-12-28

Organized by European Coordinating Committee for AI ECCAI **Qualitative Reasoning** Hannes Werthner, 2012-12-06 The book provides a survey about the field of Qualitative Reasoning it contrasts and classifies its approaches and puts them into a common framework Qualitative Reasoning represents an approach of Artificial Intelligence to model dynamic systems about which little information is available and to derive statements about the potential behavior of these systems putting emphasis on a causal explanation of the behavior Both variables and relationships between variables are described by means of qualitative terms such as small and large or positive and negative Since this approach also takes into consideration the way how humans reason about physical systems it can be stated that Qualitative Reasoning participates in the creation of a cognitive theory of non numerical process descriptions which can be mapped onto a digital computer This approach can be used for simulation diagnosis design structure identification and interpretation Areas of application are physics medicine the field of ecology process control etc In addition to the classification of existing methods the book presents a new approach based on fuzzy sets And the work relates Qualitative Reasoning with such fields of Expert Systems System Theory and Cognitive Science **Artificial Intelligence** Ronald Chrisley, Sander Begeer, 2000 **MICAI 2006: Advances in**

Artificial Intelligence Alexander Gelbukh, Carlos Alberto Reyes-Garcia, 2006-11-07 This book constitutes the refereed proceedings of the 5th Mexican International Conference on Artificial Intelligence MICAI 2006 held in Apizaco Mexico in November 2006 It contains over 120 papers that address such topics as knowledge representation and reasoning machine learning and feature selection knowledge discovery computer vision image processing and image retrieval robotics as well as bioinformatics and medical applications **1992 Goddard Conference on Space Applications of Artificial Intelligence**

James L. Rash,1992 **Intelligent Systems for Information Processing: From Representation to Applications** B. Bouchon-Meunier,L. Foulloy,Ronald R. Yager,2003-11-07 Intelligent systems are required to enhance the capacities being made available to us by the internet and other computer based technologies The theory necessary to help providing solutions to difficult problems in the construction of intelligent systems are discussed In particular attention is paid to situations in which the available information and data may be imprecise uncertain incomplete or of a linguistic nature Various methodologies to manage such information are discussed Among these are the probabilistic possibilistic fuzzy logical evidential and network based frameworks One purpose of the book is not to consider these methodologies separately but rather to consider how they can be used cooperatively to better represent the multiplicity of modes of information Topics in the book include representation of imperfect knowledge fundamental issues in uncertainty reasoning information retrieval learning and mining as well as various applications Key Features Tools for construction of intelligent systems Contributions by world leading experts Fundamental issues and applications New technologies for web searching Methods for modeling uncertain information Future directions in web technologies Transversal to methods and domains **Advances in Artificial Intelligence** Canadian Society for Computational Studies of Intelligence. Conference,1996 This book constitutes the refereed proceedings of the 11th Biennial Conference of the Canadian Society for Computational Studies of Intelligence AI 96 held in Toronto Ontario Canada in May 1996 The 35 revised full papers presented in the book were carefully selected by the program committee Although organized by a national society AI 96 attracted contributions and participants with a significant geographic diversity The issues addressed in this volume cover an eclectic range of current AI topics with a certain emphasis on various aspects of knowledge representation natural language processing and learning **Software Prototyping in Data and Knowledge Engineering** G. Guida,G. Lamperti,Marina Zanella,2013-03-07 This monograph describes an innovative prototyping framework for data and knowledge intensive systems The proposed approach will prove especially useful for advanced and research oriented projects that aim to develop a traditional database perspective into fully fledged advanced database approaches and knowledge engineering technologies The book is organised in two parts The first part comprising chapters 1 to 4 provides an introduction to the concept of prototyping to database and knowledge based technologies and to the main issues involved in the integration of data and knowledge engineering The second part comprising chapters 5 to 12 illustrates the proposed approach in technical detail Audience This volume will be of interest to researchers in the field of databases and knowledge engineering in general and for software designers and knowledge engineers who aim to expand their expertise in data and knowledge intensive systems

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