Qualitative Representation Of Spatial Knowledge

Hernandez, Daniel

Note: This is not the actual book cover

Qualitative Representation Of Spatial Knowledge

Jennex, Murray E.

Qualitative Representation Of Spatial Knowledge:

Qualitative Representation of Spatial Knowledge Daniel Hernandez,1994-06-28 This book develops for the first time a qualitative model for the representation of spatial knowledge based only on locative relations between the objects involved The core of this book is devoted to the study of qualitative inference methods that take into account the rich structure of space These methods can be applied to quite a number of areas characterized by uncertain or incomplete knowledge as for example geographic information systems robot control computer aided architectural design and natural language information systems *Qualitative Representation of Spatial Knowledge* Daniel Hernández,1994 **Default reasoning and the qualitative representation of spatial knowledge** Daniel Hernández,Kai Zimmermann,1993 **Qualitative Spatial Reasoning with Topological Information** Jochen Renz,2002-02-27 Spatial knowledge representation and reasoning with spatial knowledge are relevant issues for many application areas such as robotics geographical information systems and computer vision Exceeding purely quantitative approaches more recently initiated qualitative approaches allow for dealing with spatial information on a more abstract level that is closer to the way humans think and speak Starting out with the qualitative topological constraint calculus RCC8 proposed by Randell Cui and Cohn this work presents answers to a variety of open questions regarding RCC8 The open issues concerning computational properties are solved by exploiting a broad variety of results and methods from logic and theoretical computer science Questions concerning practical performance are addressed by large scale empirical computational experiments The most impressive result is probably the complete classification of computational properties for all fragments of RCC8 Mental Representation and Processing of Geographic Knowledge Thomas Barkowsky,2002-12-11 In cognitive science mental representations of spatial knowledge are metaphorically referred to as cognitive maps However investigations in cognitive psychology reveal that the cognitive map metaphor is inadequate and that more suitable conceptions of human spatial knowledge processing are needed This book addresses mental processing of knowledge about geographic space from an AI point of view by presenting an experimental computational modeling approach Results about human memory and visual mental imagery from cognitive psychology are combined with AI techniques of spatial and diagrammatic knowledge processing The author develops the diagrammatic reasoning architecture MIRAGE as a comprehensive conception of human geographic knowledge processing **Ubiquitous Developments in Knowledge Management: Integrations and Trends** Jennex, Murray E.,2010-01-31 This book presents current research in Knowledge Management highlighting new technologies approaches issues solutions or cases that can help an organization implement a knowledge management initiative or provide a knowledge base Provided by publisher

Reasoning with Mixed Qualitative-quantitative Representations of Spatial Knowledge Giorgio De Felice,2013

Handbook of Knowledge Representation Frank van Harmelen,Vladimir Lifschitz,Bruce Porter,2008-01-08 Handbook of Knowledge Representation describes the essential foundations of Knowledge Representation which lies at the core of

Artificial Intelligence AI The book provides an up to date review of twenty five key topics in knowledge representation written by the leaders of each field It includes a tutorial background and cutting edge developments as well as applications of Knowledge Representation in a variety of AI systems This handbook is organized into three parts Part I deals with general methods in Knowledge Representation and reasoning and covers such topics as classical logic in Knowledge Representation satisfiability solvers description logics constraint programming conceptual graphs nonmonotonic reasoning model based problem solving and Bayesian networks Part II focuses on classes of knowledge and specialized representations with chapters on temporal representation and reasoning spatial and physical reasoning reasoning about knowledge and belief temporal action logics and nonmonotonic causal logic Part III discusses Knowledge Representation in applications such as question answering the semantic web automated planning cognitive robotics multi agent systems and knowledge engineering This book is an essential resource for graduate students researchers and practitioners in knowledge representation and AI Make your computer smarter Handle qualitative and uncertain information Improve computational tractability to solve your problems easily **RoboCup 2004: Robot Soccer World Cup VIII** Daniele Nardi,Martin Riedmiller,Claude Sammut,José Santos-Victor,2005-03-01 ThesearetheproceedingsoftheRoboCup2004Symposium heldattheInstituto Superior T ecnico in Lisbon Portugal in conjunction with the RoboCup c petition The papers presented here document the many innovations in robotics that result from RoboCup A problem in any branch of science or engineering is how to devise tests that can provide objective comparisons between alt native methods In recent years competitive engineering challenges have been established to motivate researchers to tackle di cult problems while providing a framework for the comparison of results RoboCup was one of the rst such competitions and has been a model for the organization of challenges foll ing sound scienti c principles In addition to the competition the associated symposium provides a forum for researchers to present refereed papers But for RoboCup the symposium has the greater goal of encouraging the exchange of ideas between teams so that the competition as a whole progresses from year to year and strengthens its contribution to robotics One hundred and eighteen papers were submitted to the Symposium Each paper was reviewed by at least two international referees 30 papers were cepted for presentation at the Symposium as full papers and a further 38 were accepted for poster presentation The quality of the Symposium could not be maintained without the support of the authors and the generous assistance of the referees

Proceedings of the ... International Conference on Information and Knowledge Management ,1999 *Knowledge-based Intelligent Information and Engineering Systems* ,2005 **Encyclopedia of Information Science and Technology, Second Edition** Khosrow-Pour, D.B.A., Mehdi,2008-10-31 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher

Proceedings of the ... International IEEE Conference on Tools for Artificial Intelligence ,1998 **Qualitative Spatial Abstraction in Reinforcement Learning** Lutz Frommberger,2010-12-13 Reinforcement learning has developed as

a successful learning approach for domains that are not fully understood and that are too complex to be described in closed form However reinforcement learning does not scale well to large and continuous problems Furthermore acquired knowledge specific to the learned task and transfer of knowledge to new tasks is crucial In this book the author investigates whether deficiencies of reinforcement learning can be overcome by suitable abstraction methods He discusses various forms of spatial abstraction in particular qualitative abstraction a form of representing knowledge that has been thoroughly investigated and successfully applied in spatial cognition research With his approach he exploits spatial structures and structural similarity to support the learning process by abstracting from less important features and stressing the essential ones The author demonstrates his learning approach and the transferability of knowledge by having his system learn in a virtual robot simulation system and consequently transfer the acquired knowledge to a physical robot The approach is influenced by findings from cognitive science The book is suitable for researchers working in artificial intelligence in particular knowledge representation learning spatial cognition and robotics **Proceedings of the Twentieth Annual Conference of the Cognitive Science Society** Morton Ann Gernsbacher,Sharon J. Derry,2022-05-16 This volume features the complete text of the material presented at the Twentieth Annual Conference of the Cognitive Science Society As in previous years the symposium included an interesting mixture of papers on many topics from researchers with diverse backgrounds and different goals presenting a multifaceted view of cognitive science This volume contains papers posters and summaries of symposia presented at the leading conference that brings cognitive scientists together to discuss issues of theoretical and applied concern Submitted presentations are represented in these proceedings as long papers those presented as spoken presentations and full posters at the conference and short papers those presented as abstract posters by members of the Cognitive Science Society Mathematical Reviews ,1996 *Journal of Applied Non-classical Logics* ,2002

MICAI ... ,2004 **IGIS '94: Geographic Information Systems** Jürg Nievergelt,1994-11-30 This volume constitutes the proceedings of the International Workshop on Advanced Research in Geographic Information Systems IGIS 94 held in Ascona Switzerland in February March 1994 The 28 carefully refereed and revised papers address all current aspects of GIS research and their advanced applications to spatial and environmental data engineering Among the topics covered are GIS theory spatial databases spatial data structures environmental modelling and control data modelling object orientation pattern recognition and optimization In addition software and non commercial as well as commercial GIS are analysed

1997 IEEE International Conference on Tools with Artificial Intelligence ,1997 Aimed at researchers professors practitioners students and other computing professionals this work focuses in genetic algorithms reasoning under uncertainty natural language processing knowledge based technology and neural networks

Qualitative Representation Of Spatial Knowledge Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Qualitative Representation Of Spatial Knowledge**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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