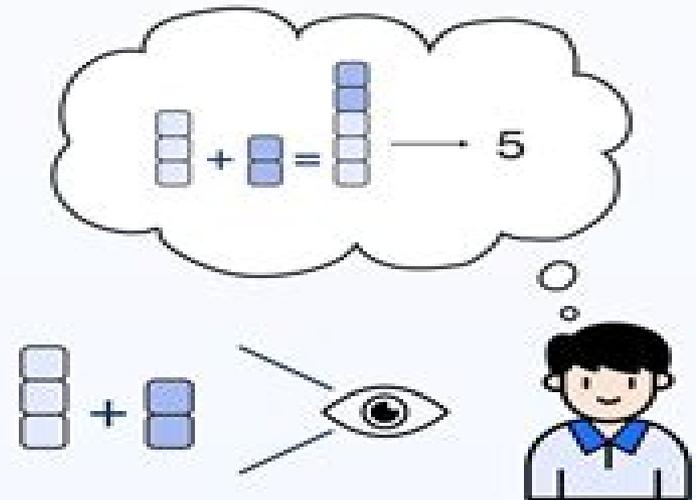
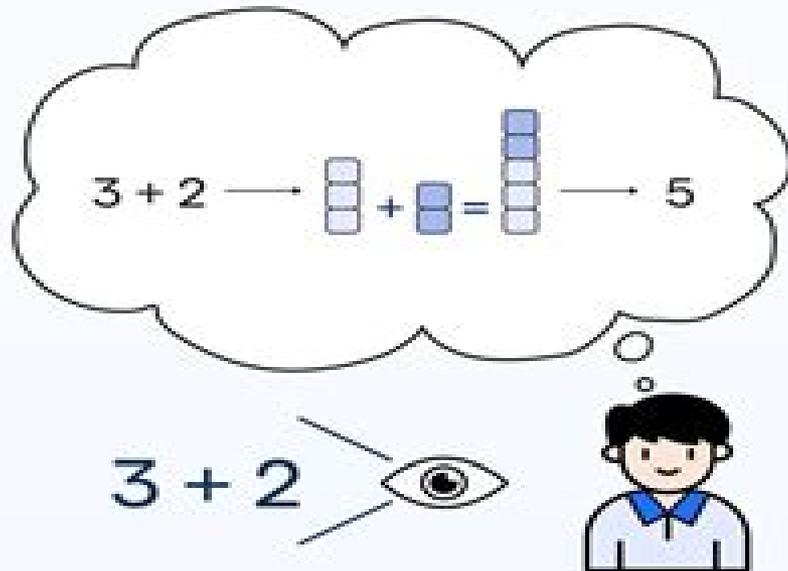


Spatial-Temporal Reasoning



Spatial And Temporal Reasoning

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Spatial And Temporal Reasoning:

Spatial and Temporal Reasoning Oliviero Stock,1998-09-30 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

Spatial and Temporal Reasoning O. Stock,2014-01-15 **Spatial and temporal reasoning** ,2004 Spatial and Temporal Reasoning in Geographic Information Systems Max J. Egenhofer,Reginald G. Golledge,1998 In an effort to further investigation into critical development facets of geographic information systems GIS this book explores the reasoning processes that apply to geographic space and time As a result of an initiative sponsored by the National Center for Geographic Information and Analysis NCGIA it treats the computational cognitive and social science applications aspects of spatial and temporal reasoning in GIS Essays were contributed by scholars from a broad spectrum of disciplines including geography cartography surveying and engineering computer science mathematics and environmental and cognitive psychology

Theories and Methods of Spatio-temporal Reasoning in Geographic Space Andrew U. Frank,Irene Campari,Ubaldo Formentini,1992 This volume collects the papers presented at the first international conference dedicated to spatial and temporal reasoning in geographic space entitled GIS from space to territory theories and methods of spatio temporal reasoning Within the National Center for Geographic Information and Analysis NCGIA one of the supporters of the conference the importance of spatial and temporal reasoning was recognized several years ago Initial research found that spatial reasoning in geographic or large scale space is different from spatial reasoning in small scale space as usually dealt with in robotics and expertsystems Temporal reasoning has attracted interest in the artificial intelligence community The volume also includes two invited

papers Do people understand spatial concepts the case of first order primitives by R G Golledge and Temporal databases by R T Snodgrass PUBLISHER S WEBSITE *Qualitative Spatial and Temporal Reasoning* Gérard Ligozat,2013-05-21 Starting with an updated description of Allen s calculus the book proceeds with a description of the main qualitative calculi which have been developed over the last two decades It describes the connection of complexity issues to geometric properties Models of the formalisms are described using the algebraic notion of weak representations of the associated algebras The book also includes a presentation of fuzzy extensions of qualitative calculi and a description of the study of complexity in terms of clones of operations *Spatial and Temporal Reasoning* Rita V. Rodríguez,American Association for Artificial Intelligence,1994 *Spatial and Temporal Reasoning* Frank D. Anger,Hans Werner Gsgen,G´erard Ligozat,2002-09-01 This workshop is intended as a forum for discussion exchange of points of view assessment of results and methods and as a source of dissemination and promotion of the newest advances in the area of spatial and temporal reasoning Recent years have witnessed remarkable advances in some of the longstanding problems of the field for instance new results about tractability for spatial calculi explicit construction of models characterization of important subclasses of relations as well as in the development of new areas the appearance of new integrated spatiotemporal calculi is one example as well as the development of multi dimensional spatial calculi Likewise proposals have been made to remedy some of the weak points of the symbolic approach by introducing fuzzy versions of classical calculi or importing nonmonotonic techniques for dealing with incomplete information At the same time leaders in AI have sounded the need for solving real problems and making the work on representation and reasoning relevant to the real world Around forty participants will be selected to attend the workshop contributing and participating in discussions Accepted papers will be included in the workshop working notes to be distributed by AAAI Screening will be based on reviews and relevance to the workshop goals [Spatial and Temporal Reasoning](#) ,1994 *Proceedings of the Workshop on Spatial and Temporal Reasoning* ,1993 **An Investigation Into the Psychology of Spatial and Temporal Reasoning** Anthony John Blum,1993 [Reasoning About Fuzzy Temporal And Spatial Information From The Web](#) Steven Schockaert,Etienne E Kerre,Martine De Cock,2010-10-15 This book comprehensively studies fuzzy temporal and spatial information starting from the basics on fuzzy set theory and temporal spatial reasoning the development of a new model to represent fuzzy temporal spatial information the study of efficient and complete reasoning algorithms and their application in an information retrieval context This useful volume presents the first approach that goes beyond merely representing information by thoroughly addressing a variety of reasoning tasks It also focuses on applications in the domain of information retrieval and demonstrating the practical importance of the proposed framework [Algebraic Methods in Physics](#) Yvan Saint-Aubin,Luc Vinet,2012-12-06 This book pays tribute to two pioneers in the field of Mathematical physics Jiri Patera and Pavel Winternitz of the CRM Each has contributed more than forty years to the subject of mathematical physics particularly to the study of algebraic methods *Qualitative Spatial and Temporal*

Reasoning Based on And/Or Linear Programming Arne Kreutzmann,2014 **Special Issue on Spatial and Temporal Reasoning** Frank D. Anger,1996 Special Issue: Spatial and Temporal Reasoning Hans W. Guesgen,2008 **Spatial and Temporal Reasoning** Frank D. Anger,1998-03-01 **Computer Aided Systems Theory -- EUROCAST 2011** Roberto Moreno-Díaz,Franz Pichler,Alexis Quesada-Arencibia,2012-01-26 The two volume proceedings LNCS 6927 and LNCS 6928 constitute the papers presented at the 13th International Conference on Computer Aided Systems Theory EUROCAST 2011 held in February 2011 in Las Palmas de Gran Canaria Spain The total of 160 papers presented were carefully reviewed and selected for inclusion in the books The contributions are organized in topical sections on concepts and formal tools software applications computation and simulation in modelling biological systems intelligent information processing heuristic problem solving computer aided systems optimization model based system design simulation and verification computer vision and image processing modelling and control of mechatronic systems biomimetic software systems computer based methods for clinical and academic medicine modeling and design of complex digital systems mobile and autonomous transportation systems traffic behaviour modelling and optimization mobile computing platforms and technologies and engineering systems applications *Spatial and Temporal Reasoning* Hans W. Guesgen, Gerard Ligozat, Rita V. Rodriguez,2008-07-13
Proceedings of the Military, Government and Aerospace Simulation (MGA 2001) Michael J. Chinni,2001

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