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SPATIAL AND TEMPORAL REASONING IN GEOGRAPHIC INFORMATION SYSTEMS

SPATIAL INFORMATION SYSTEMS

Spatial And Temporal Reasoning In Geographic Information Systems

Paul Longley



Spatial And Temporal Reasoning In Geographic Information Systems:

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 expert systems 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

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

The Handbook of Geographic Information Science John P. Wilson, A. Stewart Fotheringham, 2008-04-15 This Handbook is an essential reference and a guide to the rapidly expanding field of Geographic Information Science Designed for students and researchers who want an in depth treatment of the subject including background information Comprises around 40 substantial essays each written by a recognized expert in a particular area Covers the full spectrum of research in GIS Surveys the increasing number of applications of GIS Predicts how GIS is likely to evolve in the near future

[A Research Agenda for Geographic Information Science](#) Robert B. McMaster, E. Lynn Usery, 2004-08-30 A close relationship exists between GIS and numerous applications including cartography photogrammetry geodesy surveying computer and information science and statistics among others Scientists coined the term geographic information science GIScience to describe the theory behind these fields A Research Agenda for Geographic Information

Spatial Information Theory. Foundations of Geographic Information Science Daniel R. Montello, 2001-09-05 This book constitutes the refereed proceedings of the 5th International Conference on Spatial Information Theory COSIT 3001 held in Morro Bay CA USA in September 2001 The 30 revised full papers presented together with three full keynote papers were carefully reviewed and selected from more than 70 submissions The papers are organized in topical sections on geographical ontology and ontologies qualitative spatio temporal reasoning formalizations of human spatial cognition space cognition and information systems human and machine approaches to navigation language and space and cognitive mapping

Comprehensive Geographic Information Systems, 2017-07-21 Geographical Information Systems Three Volume Set is a computer system used to capture store analyze and display information related to positions on the Earth's surface It has the ability to show multiple types of information on multiple geographical locations in a single map enabling users to assess patterns and relationships between different information points a crucial component for multiple aspects of modern life and industry This 3 volumes reference provides an up to date account of this growing discipline through in depth reviews authored by leading experts in the field

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Covers a rapidly expanding discipline providing readers with a detailed overview of all aspects of geographic information systems principles and applications Emphasizes the practical socioeconomic applications of GIS Provides readers with a reliable one stop comprehensive guide saving them time in searching for the information they need from different sources

Dynamic Knowledge Representation in Scientific Domains Pshenichny, Cyril, Diviaco, Paolo, Mouromtsev, Dmitry, 2018-03-16 The main approach to understanding and creating knowledge engineering concepts is static knowledge Currently there is a need to

approach knowledge through a dynamic lens and address changing relations on an elaborated syntactic and semantic basis

Dynamic Knowledge Representation in Scientific Domains provides emerging research on the internal and external changes in knowledge within various subject areas and their visual representations While highlighting topics such as behavior diagrams distribution analysis and qualitative modeling this publication explores the structural development and assessment of knowledge models This book is an important resource for academicians researchers students and practitioners seeking current research on information visualization in order to foster research and collaboration

Time-Integrative Geographic Information Systems Thomas Ott, Frank Swiaczny, 2012-12-06 The book deals with the integration of temporal information in Geographic Information Systems The main purpose of an historical or time integrative GIS is to reproduce spatio temporal processes or sequents of events in the real world in the form of a model The model thus making them accessible for spatial query analysis and visualization This volume reflects both theoretical thoughts on the interrelations of space and time as well as practical examples taken from various fields of application e g business data warehousing demographics history and spatial analysis

Spatio-Temporal Databases Rita de Caluwe, Guy De Tré, Gloria Bordogna, 2013-04-17 Spatio Temporal Databases explores recent trends in flexible querying and reasoning about time and space related information in databases It shows how flexible querying enhances standard querying expressiveness in many different ways with the aim of facilitating extraction of relevant data and information Flexible spatial and temporal reasoning denotes qualitative reasoning about dynamic changes in the spatial domain characterized by imprecision or uncertainty or both Many of the contributions focus on GIS while some others are more general or focus on related application fields presenting theoretical viewpoints and techniques that are inspiring or can be adapted for GIS The first part bundles the contributions on advances at the theoretical level also discussing examples and opening further perspectives The second part presents contributions on well developed applications The authors explain how to handle imprecision and uncertainty demonstrating how advanced techniques can help to solve diverse problems related to GIS

Mining Spatio-Temporal Information Systems Roy Ladner, Kevin Shaw, Mahdi Abdelguerfi, 2012-12-06 Mining Spatio Temporal Information Systems an edited volume is composed of chapters from leading experts in the field of Spatial Temporal Information Systems and addresses the many issues in support of modeling creation querying visualizing and mining Mining Spatio Temporal Information Systems is intended to bring together a coherent body of recent knowledge relating to STIS data modeling design implementation and STIS in knowledge discovery In particular the reader is exposed to the latest techniques for the practical design of STIS essential for complex query processing Mining Spatio Temporal Information Systems is structured to meet the needs of practitioners and researchers in industry and graduate level students in Computer Science

Information Fusion and Geographic Information Systems (IF&GIS 2013) Vasily Popovich, Christophe Claramunt, Manfred Schrenk, Kyrill Korolenko, 2013-12-04 The Workshop Proceedings reflect problems of advanced geo information science with a special

emphasis on environmental and urban challenges The Proceedings incorporate papers presented by leading scientists doing research on environmental issues from modeling to analysis information processing and visualization As well as practitioners engaged in GIS and GIS applications development The Proceedings pay close attention to the problems of scientific and technological innovations as well application opportunities such as getting environmental and global warming problems under control as well as the monitoring planning and simulation of urban systems with respect to economic trends as related to Artificial intelligence GIS ontologies GIS data integration and modeling Environmental management Urban GIS Transportation GIS GIS data fusion GIS and corporate information systems GIS and real time monitoring systems GIS algorithms and computational issues Landscape studies Global warming GIS and the Arctic sea Novel and emerging GIS research areas Maritime and environmental GIS and Coastal GIS

Geographic Information Systems and Environmental Modeling Keith C. Clarke,Bradley O. Parks,Michael P. Crane,2002 This book provides readers with the most comprehensive and authoritative treatment of the topic available Topics covered include modeling frameworks paradigms and approaches model development calibration and validation dynamic systems modeling and four dimensional GIS and more Includes case studies in GIS EM This book is intended for readers interested in advanced Geographic

Information Systems Spatial Data Processing or Environmental Modeling

Cognitive Aspects of Human-Computer Interaction for Geographic Information Systems T.L. Nyerges,D.M. Mark,Robert Laurini,Max J. Egenhofer,2012-12-06 A significant part of understanding how people use geographic information and technology concerns human cognition This book provides the first comprehensive in depth examination of the cognitive aspects of human computer interaction for geographic information systems GIS Cognitive aspects are treated in relation to individual group behavioral institutional and cultural perspectives Extensions of GIS in the form of spatial decision support systems and SDSS for groups are part of the geographic information technology considered Audience Geographic information users systems analysts and system designers researchers in human computer interaction will find this book an information resource for understanding cognitive aspects of geographic information technology use and the methods appropriate for examining this use

Cartography and Geographic Information Science ,2000 Geographical Information Massimo Rumor,R. McMillan,Henk F. L. Ottens,1996 Geographical Information is defined as the collection of data on real virtual objects which have a fixed place above on in or beneath the surface of the earth Geographical information involves all information on buildings roads pipelines cabling etc as well as boundaries air corridors topography and postcode areas the information can be administrative and geometric Changes in social and economic interests have caused the emphasis to shift over the years Virtual objects areas postcode areas in particular have attracted more interest in recent years This is closely related to the increased desirability of analysing and presenting policy information within certain spatial limits in which the introduction of Geographical Information Systems GIS and systems like GIS has played a significant role Geographical Information cannot be regarded as

the informational side of one policy area Geographical information is not only necessary for the layout and management of space but also for such things as taxation environmental policy water management maintenance and protection of pipeline systems and making maps The volumes address the latest developments with respect to technological innovation scientific progress and advanced professional application in the field of geographical information In addition articles dealing with the state of the art and coming innovations with respect to major fields of GI research and application are included The books cover the following areas of specific interest topics with the current scope of geographical information research geographical information technology geographical information and environment geographical information planning geographical information in urban and regional government geographical information in utilities telecom and private enterprise geographical information education and awareness geographical information in Spain

Proceedings of the ... International Symposium on Advances in Geographic Information Systems, 1999 **Proceedings of the Military, Government and Aerospace Simulation (MGA 2001)** Michael J. Chinni, 2001 *Geographical Information Systems* Paul Longley, 1999 From a review of the First Edition The book is timely packed with useful background information and thought provoking in its treatment of future prospects the definitive guide to GIS Photogrammetric Engineering Remote Sensing The one stop source for current and comprehensive information on GIS now in a new edition The long awaited Second Edition of Geographical Information Systems brings this definitive reference up to date with the latest developments in GIS techniques and practice Completely restructured and rewritten by a select international team of almost 100 GIS experts it remains the resource of choice for anyone seeking detailed state of the art information on all key aspects of this revolutionary spatial science technology from underlying principles and methodology Volume 1 to management and practical applications Volume 2 Unmatched in scope by any other reference on the subject Geographical Information Systems Second Edition provides crucial background on basic GIS concepts and addresses the radical shifts and changes that have taken place in GIS technology and its uses The new edition comes complete with color illustrations helpful cross referencing plus an extensive bibliography a list of acronyms and more a full range of features that make this landmark resource easier to use than ever Volume 1 offers in depth coverage of key GIS principles and technical issues including Spatial representation spatial distributions and spatial data Data quality error detection and spatial analysis New GIS technology from networked and open GIS to desktop environments Current spatial database management methods Data capture using the latest remote sensing and global positioning system GPS technologies Techniques for transforming and linking geographical data

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

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In addition software and non commercial as well as commercial GIS are analysed

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