

Max J. Egenhofer Reginald G. Golledge

SPATIAL AND TEMPORAL REASONING IN GEOGRAPHIC INFORMATION SYSTEMS

Spatial And Temporal Reasoning In Geographic Information Systems

Max J. Egenhofer, Reginald G. Golledge

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 iniative 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 Spatial and Temporal Reasoning O. Stock, 2007-07-27 Qualitative reasoning about space and time a reasoning psychology 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 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 primtives by R G Golledge and Temporal databases by R T Snodgrass

PUBLISHER S WEBSITE 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 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 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 VOLUME EDITORSThomas J CovaThe University of Utah Salt Lake City UT United StatesMing Hsiang TsouSan Diego State University San Diego CA United StatesGeorg BarethUniversity of Cologne Cologne GermanyChungiao SongUniversity of California Los Angeles CA United StatesYan SongUniversity of North Carolina at Chapel Hill Chapel Hill NC United StatesKai CaoNational University of Singapore Singapore Singapore A Silva University of Cambridge Cambridge United Kingdom Covers a rapidly expanding discipline providing readers with a detailed overview of all aspects of geographic information systems

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time and space to the development of practical solutions to the problem This book draws together an interdisciplinary group of scientists in the field of geography computing surveying and philosophy It presents the definitive sourcebook on temporal GIS as applied to socio economic units International Encyclopedia of Geography, 15 Volume Set Noel Castree, Michael F. Goodchild, Audrey Kobayashi, Weidong Liu, Richard A. Marston, 2017-03-20 Zweifelsohne das Referenzwerk zu diesem weitgef cherten und dynamischen Fachgebiet The International Encyclopedia of Geograph ist das Ergebnis einer einmaligen Zusammenarbeit zwischen Wiley und der American Association of Geographers AAG beleuchtet und definiert Konzepte Forschung und Techniken in der Geographie und zugeh rigen Fachgebieten Die Enzyklop die ist als Online Ausgabe und 15 b ndige farbige Printversion erh ltlich Unter der Mitarbeit einer Gruppe von Experten aus aller Welt ist ein umfassender und fundierter berblick ber die Geographie in allen Erdteilen entstanden Enth lt mehr als 1 000 Eintr ge zwischen 1 000 und 10 000 W rtern die verst ndlich in grundlegende Konzepte einf hren komplexe Themen erl utern und Informationen zu geographischen Gesellschaften aus aller Welt enthalten Entstanden unter der Mitarbeit von mehr als 900 Wissenschaftlern aus ber 40 L ndern und bietet damit einen umfassenden und fundierten berblick ber die Geographie in allen Erdteilen Deckt das Fachgebiet umfassend ab und ber cksichtigt auch die Richtungen Humangeographie Physikalische Geographie geographische Informationswissenschaften und systeme Erdwissenschaften und Umweltwissenschaften F hrt interdisziplin re Sichtweisen zu geographischen Themen und Verfahren zusammen die auch fr die Sozialwissenschaften Geisteswissenschaften Naturwissenschaften und Medizin von Interesse sind Printausgabe durchg ngig in Farbe mit ber 1 000 Illustrationen und Fotos Online Ausgabe wird i hrlich aktualisiert **Innovations In GIS 5** Steve Carver, 1998-03-30 This text reflects the interdisciplinary nature of GIS research and includes coverage of such themes as virtual GIS spatial analysis artificial intelligence spatial agents and fuzzy systems and space time GIS and GIS applications Exploring Geovisualization J. Dykes, A.M. MacEachren, M.-J. Kraak, 2005-02-10 Sophisticated interactive maps are increasingly used to explore information guiding us through data landscapes to provide information and prompt insight and understanding Geovisualization is an emerging domain that draws upon disciplines such as computer science human computer interactiondesign cognitive sciences graphical statistics data visualization information visualization geographic information science and cartography to discuss develop and evaluate interactive cartography This review and exploration of the current and future status of geovisualization has been produced by key researchers and practitioners from around the world in various cognate fields ofstudy The thirty six chapters present summaries of work undertaken case studies focused on new methods and their application system descriptions tests of their implementation plans for collaboration and reflections on experiences of using and developing geovisualization techniques In total over 50 pages of color are provided in the book along with more than 250 color images on an enclosed CD ROM ADVANCED GEOGRAPHIC INFORMATION SYSTEMS -Volume I Claudia Maria Bauzer Medeiros, 2009-09-19 Advanced Geographic Information Systems is a

component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The content of the Theme on Advanced Geographic Information Systems is organized with state oc the art presentations covering the following aspects of the subject Spatio Temporal Information Systems Interacting with GIS From Paper Cartography to Virtual Environments Spatial Data Management Topic Overview Introduction to Spatial Decision Support Systems GIS Interoperability from Problems to Solutions These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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would like to thank all the students and postdoctoral fellows who were trained during CHOROCHRONOS We hope the time they spent at CHOROCHRONOS node institutions was rewarding and lots of fun March 2003 Timos Sellis Manolis Koubarakis Andrew Frank Vienna St ephane Grumbach Ralf Hartmut Guting Christian Jensen Nikos Lorentzos Yannis Manolopoulos Enrico Nardelli Barbara Pernici Babis Theodoulidis Nectaria Tryfona Hans J org Schek Michel Scholl Table of Contents 1 Introduction Manual of Geospatial Science and Technology John D. Bossler, James B. Campbell, Robert B. McMaster, Chris Rizos, 2010-03-05 Following in the tradition of its popular predecessor the Manual of Geospatial Science and Technology Second Edition continues to be the authoritative volume that covers all aspects of the field both basic and applied and includes a focus on initiating planning and managing GIS projects This comprehensive resource which contains contributio Geographic Information Systems for Transportation Harvey J. Miller, Shih-Lung Shaw, 2001 GIS data and tools are revolutionizing transportation research and decision making allowing transportation analysts and professionals to understand and solve complex transportation problems that were previously impossible Here Miller and Shaw present a comprehensive discussion of fundamental geographic science and the applications of these principles using GIS and other software tools By providing thorough and accessible discussions of transportation analysis within a GIS environment this volume fills a critical niche in GIS T and GIS literature Geographic Information Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2012-09-30 Developments in technologies have evolved in a much wider use of technology throughout science government and business resulting in the expansion of geographic information systems GIS is the academic study and practice of presenting geographical data through a system designed to capture store analyze and manage geographic information Geographic Information Systems Concepts Methodologies Tools and Applications is a collection of knowledge on the latest advancements and research of geographic information systems This book aims to be useful for academics and practitioners involved in geographical data

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Table of Contents Spatial And Temporal Reasoning In Geographic Information Systems

- 1. Understanding the eBook Spatial And Temporal Reasoning In Geographic Information Systems
 - The Rise of Digital Reading Spatial And Temporal Reasoning In Geographic Information Systems
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Spatial And Temporal Reasoning In Geographic Information Systems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Spatial And Temporal Reasoning In Geographic Information Systems
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Spatial And Temporal Reasoning In Geographic Information Systems
 - Personalized Recommendations
 - Spatial And Temporal Reasoning In Geographic Information Systems User Reviews and Ratings
 - Spatial And Temporal Reasoning In Geographic Information Systems and Bestseller Lists
- 5. Accessing Spatial And Temporal Reasoning In Geographic Information Systems Free and Paid eBooks
 - Spatial And Temporal Reasoning In Geographic Information Systems Public Domain eBooks
 - Spatial And Temporal Reasoning In Geographic Information Systems eBook Subscription Services
 - Spatial And Temporal Reasoning In Geographic Information Systems Budget-Friendly Options

- 6. Navigating Spatial And Temporal Reasoning In Geographic Information Systems eBook Formats
 - o ePub, PDF, MOBI, and More
 - Spatial And Temporal Reasoning In Geographic Information Systems Compatibility with Devices
 - Spatial And Temporal Reasoning In Geographic Information Systems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Spatial And Temporal Reasoning In Geographic Information Systems
 - Highlighting and Note-Taking Spatial And Temporal Reasoning In Geographic Information Systems
 - Interactive Elements Spatial And Temporal Reasoning In Geographic Information Systems
- 8. Staying Engaged with Spatial And Temporal Reasoning In Geographic Information Systems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Spatial And Temporal Reasoning In Geographic Information Systems
- 9. Balancing eBooks and Physical Books Spatial And Temporal Reasoning In Geographic Information Systems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Spatial And Temporal Reasoning In Geographic Information Systems
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Spatial And Temporal Reasoning In Geographic Information Systems
 - Setting Reading Goals Spatial And Temporal Reasoning In Geographic Information Systems
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Spatial And Temporal Reasoning In Geographic Information Systems
 - Fact-Checking eBook Content of Spatial And Temporal Reasoning In Geographic Information Systems
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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