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SPATIAL AND TEMPORAL REASONING IN GEOGRAPHIC INFORMATION SYSTEMS

SPATIAL INFORMATION SYSTEMS

Spatial And Temporal Reasoning In Geographic Information Systems

J. Dykes,A.M. MacEachren,M.-J. Kraak



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

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

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* 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 GermanyChunqiao SongUniversity of California Los Angeles CA United StatesYan SongUniversity of North Carolina at Chapel Hill Chapel Hill NC United StatesKai CaoNational University of Singapore SingaporeElisabete A SilvaUniversity 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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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 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 **Geographic Information Systems in Business** Pick, James,2004-08-31 This book contains state of the art research studies on the concepts theory processes and real world applications of geographical information systems GIS in business Its chapters are authored by many of the leading experts in applying GIS and geospatial science to business The book utilizes a wide variety of approaches and methodologies including conceptual theory development research frameworks quantitative and qualitative methods case studies systems design DSS theory and geospatial analysis combined with point of sale Since relatively little research has been published on GIS in business this book is pioneering and should be the principal compendium of the latest research in this area The book impacts not only the underlying definitions concepts and theories of GIS in business and industry but its practice as well **Application of**

Geographic Information Systems Bhuiyan Monwar Alam,2012-10-31 The importance of Geographic Information Systems GIS can hardly be overemphasized in today s academic and professional arena More professionals and academics have been using GIS than ever urban **Life and Motion of Socio-Economic Units** Andrew Frank,Jonathan Raper,J. P. Cheylan,2003-09-02 One of the ongoing problems researchers in geography and GIS have is studying data that is inherently spatial over a long period of time One of the main hurdles they have to overcome is the study of groups of people classified by their socio economic status one of the main means for governments companies and research organisations to group together segments of the population The amount of data collected by governments business and research organisations has increased markedly in recent years Geographic Information Systems have been more widely used than ever before for the storage and analysis of this information Most GIS can handle this information spatially rather than temporally and have difficulty with the management of socio economic time series which relate to spatial units Accordingly this book covers the issues ranging from the formal model to differentiate aspects of spatio temporal data through philosophical and fundamental reconsideration of

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 weitgefächerten und dynamischen Fachgebiet The International Encyclopedia of Geography 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 zugehörigen Fachgebieten Die Enzyklopädie ist als Online Ausgabe und 15 bündige farbige Printversion erhältlich Unter der Mitarbeit einer Gruppe von Experten aus aller Welt ist ein umfassender und fundierter Überblick über die Geographie in allen Erdteilen entstanden Enthält mehr als 1 000 Einträge zwischen 1 000 und 10 000 Wörtern die verständlich in grundlegende Konzepte einführen komplexe Themen erläutern und Informationen zu geographischen Gesellschaften aus aller Welt enthalten Entstanden unter der Mitarbeit von mehr als 900 Wissenschaftlern aus über 40 Ländern und bietet damit einen umfassenden und fundierten Überblick über die Geographie in allen Erdteilen Deckt das Fachgebiet umfassend ab und berücksichtigt auch die Richtungen Humangeographie Physikalische Geographie geographische Informationswissenschaften und systemische Erdwissenschaften und Umweltwissenschaften Führt interdisziplinäre Sichtweisen zu geographischen Themen und Verfahren zusammen die auch für die Sozialwissenschaften Geisteswissenschaften Naturwissenschaften und Medizin von Interesse sind Printausgabe durchgängig in Farbe mit über 1 000 Illustrationen und Fotos Online Ausgabe wird jährlich 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 interaction design 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 of study 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 of 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

Computational Science and Its Applications - ICCSA 2008 Osvaldo Gervasi, Beniamino Murgante, Antonio Laganà, Youngsong Mun, David Taniar, 2008-06-24 The two volume set LNCS 5072 and 5073 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2008 held in Perugia Italy in June July 2008 The two volumes contain papers presenting a wealth of original research results in the field of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The topics of the fully refereed papers are structured according to the five major conference themes computational methods algorithms and scientific applications high performance technical computing and networks advanced and emerging applications geometric modelling graphics and visualization as well as information systems and information technologies Moreover submissions from more than 20 workshops and technical sessions in the areas such as embedded systems geographical analysis computational geometry computational geomatics computer graphics virtual reality computer modeling computer algebra mobile communications wireless networks computational forensics data storage information security web learning software engineering computational intelligence digital security biometrics molecular structures material design ubiquitous computing symbolic computations web systems and intelligence and e education contribute to this publication Spatio-Temporal Databases Manolis

Koubarakis, 2003-08-04 This book is an introduction and source book for practitioners graduate students and researchers interested in the state of the art and practice in spatiotemporal databases It collects the most important and representative research carried out in the project CHOROCHRONOS and presents it in a unified fashion CHOROCHRONOS was a Training and Mobility Research Network funded by the European Commission with the objective to study the design implementation and application of spatiotemporal database management systems This book would never have been possible if it was not for the devoted work of many people First and foremost we would like to thank the authors of the nine chapters of this book for their hard work We would also like to acknowledge the help of Christiane Bernard our officer from the European Commission who saw the project to its conclusion working as hard as we did to make it a thorough success The constructive comments and feedback of our reviewer Colette Roland University of Paris 1 are also very much appreciated Last but not least we

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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