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Max J. Egenhofer
Reginald G. Golledge

SPATIAL AND TEMPORAL REASONING IN GEOGRAPHIC INFORMATION SYSTEMS

SPATIAL INFORMATION SYSTEMS

Spatial And Temporal Reasoning In Geographic Information Systems

Victor M. Corman



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 *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 **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 Information Theory: Foundations of Geographic Information Science Daniel R. Montello,2003-06-30 The 5th International Conference on Spatial Information Theory COSIT 2001 took place at the Inn at Morro Bay California USA September 19 23 2001 COSIT grew out of a series of workshops NATO Advanced Study Institutes NSF Specialist Meetings during the 1990s concerned with theoretical and applied aspects of representing large scale space particularly geographic or environmental space this history is elaborated in the prefaces of previous COSIT proceedings These are spaces in which and on which human action takes place and which are represented and processed in digital geographic information systems In these early meetings the need for well founded theories of spatial information representation and processing was identified particularly theories based on cognition and on computation This concern for theory provided an early foundation for the newly emerging field of geographic information science COSIT is not backed by any particular scientific society but is organized as an independent enterprise The conference series was established in 1993 as an interdisciplinary biennial European conference

on the representation and processing of large scale spatial information after a successful international conference on the topic had been organized by Andrew Frank et al in Pisa in 1992 frequently referred to as COSIT 0 After two successful European COSIT conferences with strong North American participation COSIT 93 Island of Elba Italy COSIT 95 Semmering Austria COSIT 97 moved across the pond to the United States and was held in the Laurel Highlands Pennsylvania

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

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 EDITOR Thomas J Cova The University of Utah Salt Lake City UT United States Ming Hsiang Tsou San Diego State University San Diego CA United States Georg Bareth University of Cologne Cologne Germany Chunqiao Song University of California Los Angeles CA United States Yan Song University of North Carolina at Chapel Hill Chapel Hill NC United States Kai Cao National University of Singapore Singapore Elisabete 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 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

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

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

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