

Peter van Oosterom

**REACTIVE  
DATA  
STRUCTURES  
FOR  
GEOGRAPHIC  
INFORMATION  
SYSTEMS**

SPATIAL INFORMATION SYSTEMS

# Reactive Data Structures For Geographic Information Systems

**van Oosterom (Peter J.M.)**



## **Reactive Data Structures For Geographic Information Systems:**

**Reactive Data Structures for Geographic Information Systems** Peter van Oosterom, 1993 This work is the first to describe techniques for the storage and manipulation of geographic data at multiple scales and in an integrated manner thus avoiding the redundancies of other techniques The book opens with a general introduction to Geographic Information Systems It then goes on to give an overview of the known spatial access methods and presents several new structures multi object BSP tree KD2B tree sphere tree BLG tree reactive BSP tree and reactive tree The reactive BSP tree and reactive tree are geometric structures which take multiple levels of detail into account They are reactive data structures which form the basis of a seamless scaleless geographic database The work goes on to describe two advanced GIS architecture types the geographic relational extension and the object oriented OO approach Actual implementations are presented as well as theoretical discussion of the systems GEO is based on the open research DBMS Postgres and realizes the geographic relational extension In the OO programming language Procol persistent objects are introduced in order to combine the powerful OO modelling with the database functionality required for GISs An up to date reference for a rapidly developing field the book will benefit all researchers and practitioners using or developing geographic information systems [Reactive](#)

[Data Structures for Geographic Information Systems](#) Petrus Johannes Maria Oosterom, 1990 **Reactive Data Structures for Geographic Information System** Petrus Johannes Maria van Oosterom, 1990 [Abstracting Geographic Information in a Data Rich World](#) Dirk Burghardt, Cécile Duchêne, William Mackaness, 2014-07-08 Research in the field of automated generalisation has faced new challenges in recent years as a result of technological developments in web based processing new visualisation paradigms and access to very large volumes of multi source data generated by sensors and humans In these contexts map generalisation needs to underpin on demand mapping a form of mapping that responds to individual user requirements in the thematic selection and visualisation of geographic information It is this new impetus that drives the research of the ICA Commission on Generalisation and Multiple Representation for example through its annual workshops biannual tutorials and publications in international journals This book has a coherent structure each chapter focusing on core concepts and tasks in the map generalisation towards on demand mapping Each chapter presents a state of the art review together with case studies that illustrate the application of pertinent generalisation methodologies The book addresses issues from data gathering to multi scaled outputs Thus there are chapters devoted to defining user requirements in handling specifications and in the application and evaluation of map generalisation algorithms It explores the application of generalisation methodologies in the context of growing volumes of data and the increasing popularity of user generated content **Data Structures and Efficient Algorithms** Burkhard Monien, 1992-05-20 Myocarditis and idiopathic dilated cardiomyopathy are being increasingly recognized as important causes of heart disease and heart failure Immunological mechanisms have long been suspected as playing a role in these diseases but direct evidence has been lacking Recently

animal models have become available in which myocarditis can be induced either by infection with cardiotropic viruses or by autoimmunization with heart specific antigens This book presents and analyzes the latest information obtained from experimental models relating it to the practical problems of diagnosis and treatment of myocarditis     *Introduction To Geographical Information Systems* Prithvish Nag And Smita Sengupta, Prithvish Nag, 2008 In Indian context     **GIS And Generalisation** J-P Lagrange, R Weibel, Jean-Claude Muller, 2020-11-26 This text is the inaugural book in Taylor and Francis's GISDATA series and is derived from the specialist workshop convened under the auspices of the European Science Foundation's GISDATA Scientific Programme Generalisation is an integrating tool for the analysis and presentation of spatial data Effective spatial data analysis requires multiple views of the world at various scales with different thematic layers of representation Generalisation is a key mechanism in this process as it filters out information which is required for particular scales or layers hence it is critical to implement full and comprehensive generalisation capabilities in a GIS something with which few current GIS are equipped This book overviews the core and as yet unresolved issues surrounding the achievement of this goal and presents various alternatives both speculative views and practical examples in the areas of automated generalisation vis a vis problems such as object simplification and placement At the same time it distinguishes between modelling with generalisation and graphical representation and adopts a model building perspective It also describes artificial intelligence techniques for implementing automated generalised routines and addresses issues of data quality and production The text is organized into six parts an introduction generic issue object orientated methods and knowledge based modelling knowledge acquisition and representation data quality and operation and implementation     **Geographic Information Research** Massimo Craglia, H. Couclelis, 2020-10-28 The contributors to this edited collection demonstrate that geographic information research is truly global in character cutting across a wide range of disciplines and addressing conceptual methodological technical ethical and political issues alike Of the six themes two are broadly concerned with data integration geographic data infrastructures GIS diffusion and implementation two are more technical and conceptual in nature generalisation concepts and paradigms and two reflect to a larger extent the application driven nature of GIS technology spatial analysis and multimedia Each section is introduced by chapters highlighting the key research issues Further chapters explore these issues in greater depth and benefit from the international collaboration Through the comparison of results included in this book the prospects for advancing the field and addressing the challenges of GIS research are greatly improved     *Reactive Data Structures for Geographic Information Systems* van Oosterom (Peter J.M.), 1990     *Geographical Information System Concepts And Business Opportunities* Prithvish Nag And Smita Sengupta, 2007 In Indian context     *Geographical Information Systems and Computer Cartography* Chris B. Jones, 2014-05-01 A concise text presenting the fundamental concepts in Geographical Information Systems GIS emphasising an understanding of techniques in management analysis and graphic display of spatial information Divided into five parts the

first part reviews the development and application of GIS followed by a summary of the characteristics and representation of geographical information. It concludes with an overview of the functions provided by typical GIS systems. Part Two introduces coordinate systems and map projections, describes methods for digitising map data and gives an overview of remote sensing. Part Three deals with data storage and database management as well as specialised techniques for accessing spatial data. Spatial modelling and analytical techniques for decision making form the subject of Part Four while the final part is concerned with graphical representation emphasising issues of graphics technology, cartographic design and map generalisation.

**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 before.

GIS Michael F. Worboys, Matt Duckham, 2004-05-11 GIS: A Computing Perspective Second Edition provides a full up to date overview of GIS both Geographic Information Systems and the study of Geographic Information Science. Analyzing the subject from a computing perspective the second edition explores conceptual and formal models needed to understand spatial information and examines the representations and data structures needed to support adequate system performance. This volume also covers the special purpose interfaces and architectures required to interact with and share spatial information and explains the importance of uncertainty and time. The material on GIS architectures and interfaces as well as spatiotemporal information systems is almost entirely new. The second edition contains substantial new information and has been completely reformatted to improve accessibility. Changes include: A new chapter on spatial uncertainty. Complete revisions of the bibliography index and supporting diagrams. Supplemental material is offset at the top of the page as are references and links for further study. Definitions of new terms are in the margins of pages where they appear with corresponding entries in the index.

Advancing Geoinformation Science for a Changing World Stan Geertman, Wolfgang Reinhardt, Fred Toppen, 2011-03-25 The book comprises innovative research presented at the 14th Conference of the Association of Geographic Information Laboratories in Europe AGILE held in 2011 in Utrecht, The Netherlands. The scientific papers cover a large variety of fundamental research topics as well as applied research in Geoinformation Science including measuring spatiotemporal phenomena, quality and semantics, spatiotemporal analysis, modeling and decision support as well as spatial information infrastructures. The book is aimed at researchers, practitioners and students who work in various fields and disciplines related to Geoinformation Science and technology.

**Multidimensional Geographic Information Science** Jonathan Raper, 2000-11-23 Geographic Information Systems mainly tend to be two dimensional thus limiting the applications. As GIS are being developed, researchers and practitioners are finding new ways of making GIS three dimensional, even four dimensional in some instances, increasing their usability. This book focuses on the way in which GIS could be made multidimensional based on the modelling limitations of current 2D GIS. It suggests extending GIS to incorporate the third and fourth dimensions as well as time, spatio-temporal GIS using a variety

of programming techniques and discusses current examples of multidimensional GIS      Generalisation of Geographic Information William A. Mackaness, Anne Ruas, L. Tiina Sarjakoski, 2011-07-28 Theoretical and Applied Solutions in Multi Scale Mapping Users have come to expect instant access to up to date geographical information with global coverage presented at widely varying levels of detail as digital and paper products customisable data that can readily combined with other geographic information These requirements present an immense challenge to those supporting the delivery of such services National Mapping Agencies NMA Government Departments and private business Generalisation of Geographic Information Cartographic Modelling and Applications provides detailed review of state of the art technologies associated with these challenges including the most recent developments in cartometric analysis techniques able to support high levels of automation among multi scale derivation techniques The book illustrates the application of these ideas within existing and emerging technologies In addition to providing a comprehensive theoretical underpinning the book demonstrates how theoretical developments have translated into commercial systems deployed within NMAs The book explores relevance of open systems in support of collaborative research and open source web based map services State of the art review on multi scale representation techniques Detailed consideration of database requirements and object modeling in support of emerging applications 3D mobile and innovative delivery map generalisation services Illustration through existing map production environment implementations Consolidated bibliography 680 entries 200 illustrations author and subject index      **Marine and Coastal Geographical Information Systems** Dawn J. Wright, Darius J. Barlett, 1999-12-23 Marine and coastal applications of GIS are finally gaining wide acceptance in scientific as well as GIS communities and cover the fields of deep sea geology chemistry and biology and coastal geology biology engineering and resource management Comprising rigorous contributions from a group of leading scholars in marine and coastal GIS this book will inspire and stimulate continued research in this important new application domain Launched as a project to mark the UN International Year of the Ocean 1998 and supported by the International Geographical Union's Commission on Coastal Systems this book covers progress and research in the marine and coastal realms in the areas of theory applications and empirical results It is the first book of its kind to address basic and applied scientific problems in deep sea and coastal science using GIS and remote sensing technologies It is designed for GIS and remote sensing specialists but also for those with an interest in oceans lakes and shores Coverage ranges from seafloor spreading centres to Exclusive Economic Zones to microscale coastal habitats and techniques include submersibles computer modelling image display 3 D temporal data visualization and development and application of new algorithms and spatial data structures It illustrates the broad usage of GIS image processing and computer modelling in deep sea and coastal environments and also addresses important institutional issues arising out of the use of these technologies      **Cartography and Geographic Information Science** ,2005      *Spatial Analytical* Manfred M Fischer, 2019-03-13 The ability to manipulate spatial data in different forms and to extract additional meaning from them is at

the heart of GIS yet genuine spatial analysis tools are rarely incorporated into commercial software thus seriously limiting their usefulness The future of GIS technology wil depend largely on the incorporation of more powerful analytical and modelling functions and there is agreement within the GIS community of the urgent need to address these issues This text attempts this task It presents the latest information on incorporating spatial analysis tools into GIS and includes concepts and applications from both the environmental and socio econimc sciences      **Time In Geographic Information Systems**

Gail Kucera,1992-03-26 A study into the consideration of the temporal dimension of computerized spatial data handling using GIS The book describes the use of historical and time variable data as explicit components of the modelling process

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