Introduction To Geospatial Information Broker

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Advances in Conceptual Modeling - Silvana Castano 2012-10-14
This book constitutes the refereed proceedings of workshops, held at the 31st International Conference on Conceptual Modeling, ER 2012, in Florence, Italy in October 2012. The 32 revised papers presented together with 6 demonstrations were carefully reviewed and selected from 84 submissions. The papers are organized in sections on the workshops CMS 2012, EDCM-NoCoDa, MODIC, MORE-BI, RIGIM, SeCoGIS and WISM. The workshops cover different conceptual modeling topics, from requirements, goal and service modeling, to evolution and change management, to non-conventional data access, and they span a wide range of domains including Web information systems, geographical information systems, business intelligence, data-intensive computing.
Encyclopedia of Information Science and Technology - Mehdi Khosrow-Pour 2009
"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.
Interoperating Geographic Information Systems - Michael Goodchild 2012-12-06
Geographic information systems have developed rapidly in the past decade, and are now a major class of software, with applications that include infrastructure maintenance, resource management, agriculture, Earth science, and planning. But a lack of standards has led to a general inability for one GIS to interoperate with another. It is difficult for one GIS to share data with another, or for people trained on one system to adapt easily to the commands and user interface of another. Failure to interoperate is a problem at many levels, ranging from the purely technical to the semantic and the institutional. Interoperating Geographic Information Systems is about efforts to improve the ability of GISs to interoperate, and has been assembled through a collaboration between academic researchers and the software vendor community under the auspices of the US National Center for Geographic Information and Analysis and the Open GIS Consortium Inc. It includes chapters on the basic principles and the various conceptual frameworks that the research community has developed to think about the problem. Other chapters review a wide range of applications and the experiences of the authors in trying to achieve interoperability at a practical level. Interoperability opens enormous potential for new ways of using GIS and new mechanisms for exchanging data, and these are covered in chapters on information marketplaces, with special reference to geographic information. Institutional arrangements are also likely to be profoundly affected by the trend towards interoperable systems, and nowhere is the impact of interoperability more likely to cause fundamental change than in education, as educators address the needs of a new generation of GIS

users with access to a new generation of tools. The book concludes with a series of chapters on education and institutional change. Interoperating Geographic Information Systems is suitable as a secondary text for graduate level courses in computer science, geography, spatial databases, and interoperability and as a reference for researchers and practitioners in industry, commerce and government.

Geospatial Web Services: Advances in Information Interoperability - Zhao, Peisheng 2010-12-31

As Web service technologies have matured in recent years, an increasing number of geospatial Web services designed to deal with spatial information over the network have emerged. Geospatial Web Services: Advances in Information Interoperability provides relevant theoretical frameworks and the latest empirical research findings and applications in the area. This book highlights the strategic role of geospatial Web services in a distributed heterogeneous environment and the life cycle of geospatial Web services for building interoperable geospatial applications.

Geographic Information - Association for Geographic Information. Conference 1997

Web Information Systems Engineering - WISE 2005 - Anne H.H. Ngu 2005-10-24

This book constitutes the proceedings of the 6th International Conference on Web Information Systems Engineering, WISE 2005, held in New York, NY, USA, in November 2005. The 30 revised full papers and 20 revised short papers presented together with 18 poster papers were carefully reviewed and selected from 259 submissions. The papers are organized in topical sections on Web mining, Web information retrieval, metadata management, ontology and semantic Web, XML, Web service method, Web service structure, collaborative methodology, P2P, ubiquitous and mobile, document retrieval applications, Web services and e-commerce, recommendation and Web information extraction, P2P, grid and distributed management, and advanced issues. The presentation is rounded off by 14 industrial papers and the abstracts of 4 tutorial sessions.

Handbook of Research on Geoinformatics - Karimi, Hassan A. 2009-01-31

"This book discusses the complete range of contemporary research topics such as computer modeling, geometry, geoprocessing, and geographic information systems"--Provided by publisher.

Agricultural Internet of Things - Yong He 2021-08-02

Internet of things (IoT) is a new type of network that combines communication technology, expanded applications, and physical devices. Among them, agriculture is one of the most important areas in the application of the IoT technology, which has its unique requirements and integration features. Compared to the information technology in traditional agriculture, the agricultural IoT mainly refers to industrialized production and sustainable development under relatively controllable conditions. Agricultural IoT applies sensors, RFID, visual capture terminals and other types of sensing devices to detect and collect site information, and with broad applications in field planting, facility horticulture, livestock and poultry breeding, aquaculture and agricultural product logistics. It utilizes multiple information transmission channels such as wireless sensor networks, telecommunications networks and the internet to achieve reliable transmission of agricultural information at multiple scales and intelligently processes the acquired, massive information. The goals are to achieve (i) optimal control of agricultural production process, (ii) intelligent electronic trading of agricultural products circulation, and (iii) management of systematic logistics, quality and safety traceability. This book focuses on three levels of agricultural IoT network: information perception technology, information transmission technology and application technology.

Framework for the World - David Rhind 1997-10-28

framework Framework for the World. The geographical framework for the world is so fundamental it affects the lives of everyone on earth. On top of this 'template' virtually all other kinds of information are collected and displayed, ranging from population and socio-economic statistics,

through environmental data of all kinds to asset registers such as the location of underground pipes and cables. For many years, the framework comprised simple topographic paper maps. Increasingly it is formed by topographic digital databases, from which maps and other products can be 'spun off'. These maps and databases have been created by a branch of national government, the National Mapping Organizations. At present, however, there are large variations in the content, quality and currency of the mapping and many countries have not yet converted all their maps into digital format. The world of NMOs is in turmoil, beset by rapid changes in technology, higher expectations from users of information and radical changes in the ways in which governments operate. This book describes how different approaches are being taken in policy and practical terms in different countries to face these common challenges. It also describes how global - as compared to purely national - needs are emerging for GI and how this demand is being met. The mutation of some national mapping organisations into geographical information utilities and the growth of national geographical information systems are outlined. Framework for the World is developed in 21 chapters written by senior managers involved with the framework from many different countries and drawn from both civilian and military organizations, from the United Nations and from the users of geographical frameworks. For the World

Information Technology - New Generations - Shahram Latifi 2017-07-15

This volume presents a collection of peer-reviewed, scientific articles from the 14th International Conference on Information Technology – New Generations, held at the University of Nevada at Las Vegas on April 10–12, at Tuscany Suites Hotel in Las Vegas. The Book of Chapters addresses critical areas of information technology including web technology, communications, computing architectures, software engineering, security, and data mining.

Geographic Information Systems (GIS) for Disaster Management - Brian Tomaszewski 2020-10-27

Now in its second edition, Geographic Information Systems (GIS) for Disaster Management has been completely updated to take account of new developments in the field. Using a hands-on approach grounded in relevant GIS and disaster management theory and practice, this textbook continues the tradition of the benchmark first edition, providing coverage of GIS fundamentals applied to disaster management. Real-life case studies demonstrate GIS concepts and their applicability to the full disaster management cycle. The learning-by-example approach helps readers see how GIS for disaster management operates at local, state, national, and international scales through government, the private sector, non-governmental organizations, and volunteer groups. New in the second edition: a chapter on allied technologies that includes remote sensing, Global Positioning Systems (GPS), indoor navigation, and Unmanned Aerial Systems (UAS); thirteen new technical exercises that supplement theoretical and practical chapter discussions and fully reinforce concepts learned; enhanced boxed text and other pedagogical features to give readers even more practical advice; examination of new forms of world-wide disaster faced by society; discussion of new commercial and open-source GIS technology and techniques such as machine learning and the Internet of Things; new interviews with subject-matter and industry experts on GIS for disaster management in the US and abroad; new career advice on getting a first job in the industry. Learned yet accessible, Geographic Information Systems (GIS) for Disaster Management continues to be a valuable teaching tool for undergraduate and graduate instructors in the disaster management and GIS fields, as well as disaster management and humanitarian professionals. Please visit http://gisfordisastermanagement.com to view supplemental material such as slides and hands-on exercise video walkthroughs. This companion website offers valuable hands-on experience applying concepts to practice.

Ethics for the Information Age - Michael Jay Quinn 2006

Widely praised for its balanced treatment of computer ethics, Ethics for the Information Age offers a modern presentation of the moral controversies surrounding information technology. Topics such as privacy and intellectual property are explored through multiple ethical

theories, encouraging readers to think critically about these issues and to make their own ethical decisions.

Introduction to Geospatial Information and Communication Technology (GeoICT) - Rifaat Abdalla 2018-05-30

This book is designed to help students and researchers understand the latest research and development trends in the domain of geospatial information and communication (GeoICT) technologies. Accordingly, it covers the fundamentals of geospatial information systems, spatial positioning technologies, and networking and mobile communications, with a focus on OGC and OGC standards, Internet GIS, and location-based services. Particular emphasis is placed on introducing GeoICT as an integrated technology that effectively bridges various information-technology domains.

Low Cost Strategies to Increase Truck Parking in Wisconsin - 2009

This report documents a study of truck parking issues along the major state highways in Wisconsin. The effort builds upon another project at the National Center for Freight and Infrastructure Research and Education (CFIRE) funded by the Mississippi Valley Freight Coalition to study the truck parking issues on Interstate highways in the ten-state AASHTO Mississippi Valley Region. This study also inventories both public and private parking facilities along a select number of state highways. A web geographic information system (GIS) tool was developed for continuous survey and public participation. The study surveyed highway patrol officers, public freight planners, and truckers to identify parking facilities incommensurate with truck parking needs. It proposes a method for ranking parking facilities identified as having the most need of additional truck parking capacity. Building on a review of previous studies and face-to-face interviews with carriers, the report contains a discussion of why existing parking facilities do not meet needs and describes a set of low cost strategies for addressing truckers' parking needs.

Geographic Information Systems in Water Resources Engineering - Lynn E. Johnson 2016-04-19

State-of-the-art GIS spatial data management and analysis tools are revolutionizing the field of water resource engineering. Familiarity with these technologies is now a prerequisite for success in engineers' and planners' efforts to create a reliable infrastructure.GIS in Water Resource Engineering presents a review of the concepts and application

Collaborative Knowledge in Scientific Research Networks - Diviacco, Paolo 2014-10-31

Research inherently requires collaborative efforts between individuals, databases, and institutions. However, the systems that enable such interpersonal cooperation must be properly suited in facilitating such efforts to avoid impeding productivity. Collaborative Knowledge in Scientific Research Networks addresses the various systems in place for collaborative e-research and how these practices serve to enhance the quality of research across disciplines. Covering new networks available through social media as well as traditional methods such as mailing lists and forums, this publication considers various scientific disciplines and their individual needs. Theorists of collaborative scientific work, technology developers, researchers, and funding agency officials will find this book valuable in exploring and understanding the process of scientific collaboration.

Environmental Software Systems. Fostering Information Sharing - Jiří Hřebíček 2013-09-08

This book constitutes the refereed proceedings of the 10th IFIP WG 5.11 International Symposium on Environmental Software Systems, ISESS 2013, held in Neusiedl am See, Austria, in June 2013. The 65 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections: environmental application in the scope of the future Internet; smart and mobile devices used for environmental applications; information tools for global environmental assessment; environmental applications in risk and crises management; SEIS as a part of the 7th environment action programme of EU; human interaction and human factors driving future EIS/EDSS developments; environmental management/-accounting and -statistics; and information systems and applications.

Geospatial Challenges in the 21st Century - Kostis Koutsopoulos

2019-01-16

This book focuses on 21st century geospatial technologies (GT). It highlights their broad range of capabilities and their essential role in effectively addressing and resolving critical everyday issues, such as environment, sustainability, climate change, urban planning, economy, culture and geopolitics. Featuring chapters written by leading international scientists, it discusses the application of GT tools and demonstrates that the problems requiring such tools transcend national boundaries, cultures, political systems and scientific backgrounds on a global scale. In addition, it enhances readers' spatial understanding of, and geographical reasoning in connection with, societal issues. The book will appeal to scientists, teachers and students of geography, the earth sciences and related areas, as well as decision-makers interested in the application and capabilities of geospatial technologies and new, spatial methods for addressing important issues.

Handbook of Internet Computing - Borko Furht 2019-07-23

Scientists in different geographical locations conduct real-time experiments in a virtual shared workspace. E-commerce provides an emerging market for businesses large and small. E-mail, Servers, and Enterprise Resources Planning have revolutionized businesses on every level. People from all over the globe gather in chat rooms. The Internet is here to stay and Internet technologies and applications continue to grow and evolve. The Handbook of Internet Computing presents comprehensive coverage of all technical issues related to the Internet and its applications. It addresses hot topics such as Internet architectures, content-based multimedia retrieval on the Internet, Web-based collaboration, Web search engines, digital libraries, and more. Real-life examples illustrate the concepts so that technical, non-technical and business people can quickly grasp the fundamentals.

Geo-Business - James B. Pick 2008-01-02

Exploit the advantages of Geographic Information Systems in your business Once the domain of cartographers and other specialists, Geographic Information Systems (GIS) are increasingly being employed by the business community. Location-based services, supply chain management, management of field-distributed equipment, geographical marketing and promotion, and the spatial web are some of the current business applications which make use of GIS principles. Written specifically for the businessperson, Geo-Business: GIS in the Digital Organization is the first book to provide comprehensive coverage of GIS applications in the business and organizational environment. Going beyond a strictly geographical focus, this book sets GIS in the context of business information systems and other business sub-disciplines such as logistics, marketing, finance, and strategic management. It presents from an organizational perspective the advantages of spatially enabling existing enterprise systems and illustrates how GIS is applied in the real world through rigorous case study analyses of twenty companies, including Baystate Health, Chico's, Kaiser Permanente, Lamar Advertising Company, Rand McNally, Southern Company, Sears Roebuck, and Sperry Van Ness. In this book, you'll find out: What GIS is and how it can be integrated into your organization's existing information infrastructure. How GIS is currently making businesses better, and how you can apply the same techniques to your industry or organization. The expanding roles of GIS and spatial technologies in the web and mobile environments. The ethical, legal, and security issues of special technologies How to conduct a cost/benefit and ROI analyses for GIS. Grounded in the real world of business and IT, Geo-Business will show you how spatially enabling your IT systems can give you a unique advantage to beat your competitors in the market, win and retain customers, grow your business, make better decisions, develop new products and services, and optimize your workflow.

Proceedings of the Second International Conference on Web Information Systems Engineering - M. Tamer Özsu 2002

This two-volume set contains papers from the main program and the workshops of a December 2001 conference presenting research results in the design, development, and management of Web-based information systems and Web data management. E-commerce, mediation and ontology, multimedia, XML query languages, Web information retrieval and classification, multimedia, Web search, XML data and database

structures, Web mining, Web community discovery, and XML publishing and transformation are some areas examined in the main program. Workshop topics include architectures, semantics issues, mobile applications, and data analysis in Web geographical information systems, plus Web semantics, networks, and research from Japanese universities. This work lacks a subject index. Annotation copyrighted by Book News Inc., Portland, OR.

Earth Observation Open Science and Innovation - Pierre-Philippe Mathieu 2018-01-23

This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data economy. It provides insight into new paradigms of Open Science and Innovation applied to space data, which are characterized by openness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence, unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites.

GIS India - 2007

Advanced Geoinformation Science - Chaowei Yang 2010-10-21

Many of the challenges of the next century will have physical dimensions, such as tsunamis, hurricanes, and climate change as well as human dimensions such as economic crises, epidemics, and emergency responses. With pioneering editors and expert contributors, Advanced Geoinformation Science explores how certain technical aspects of geoinformation

The SAGE Handbook of GIS and Society - Timothy Nyerges 2011-05-09

"The definitive guide to a technology that succeeds or fails depending upon our ability to accommodate societal context and structures. This handbook is lucid, integrative, comprehensive and, above all, prescient in its interpretation of GIS implementation as a societal process." - Paul Longley, University College London "This is truly a handbook - a book you will want to keep on hand for frequent reference and to which GIS professors should direct students entering our field... Selection of a few of the chapters for individual attention is difficult because each one contributes meaningfully to the overall message of this volume. An important collection of articles that will set the tone for the next two decades of discourse and research about GIS and society." - Journal of Geographical Analysis Over the past twenty years research on the evolving relationship between GIS and Society has been expanding into a wide variety of topical areas, becoming in the process an increasingly challenging and multifaceted endeavour. The SAGE Handbook of GIS and Society is a retrospective and prospective overview of GIS and Society research that provides an expansive and critical assessment of work in that field. Emphasizing the theoretical, methodological and substantive diversity within GIS and Society research, the book highlights the distinctiveness and intellectual coherence of the subject as a field of study, while also examining its resonances with and between key themes, and among disciplines ranging from geography and computer science to sociology, anthropology, and the health and environmental sciences. Comprising 27 chapters, often with an international focus, the book is organized into six sections: Foundations of Geographic Information and Society Geographical Information and Modern Life Alternative Representations of Geographic Information and Society Organizations and Institutions Participation and Community Issues Value, Fairness, and

Privacy Aimed at academics, researchers, postgraduates, and GIS practitioners, this Handbook will be the basic reference for any inquiry applying GIS to societal issues.

Markets for Cybercrime Tools and Stolen Data - Lillian Ablon 2014-03-25

Criminal activities in cyberspace are increasingly facilitated by burgeoning black markets. This report characterizes these markets and how they have grown into their current state to provide insight into how their existence can harm the information security environment. Understanding these markets lays the groundwork for exploring options to minimize their potentially harmful influence.

Semantic Web-based Intelligent Geospatial Web Services - Peng Yue 2013-04-18

By introducing Semantic Web technologies into geospatial Web services, this book addresses the semantic description of geospatial data and standards-based Web services, discovery of geospatial data and services, and generation of composite services. Semantic descriptions for geospatial data, services, and geoprocessing service chains are structured, organized, and registered in geospatial catalogue services. The ontology-based approach helps to improve the recall and precision of data and services discovery. Semantics-enabled metadata tracking and satisfaction allows analysts to focus on the generation of a geospatial process model rather than spending large amounts of time in data preparation. “DataType”-driven service composition and path planning can help to automate a range of knowledge discovery processes in a limited geospatial domain. Process planning facilitates the construction of complex services and models for geocomputation. A three-phase procedure to cover the lifecycle of service chaining and to identify the roles of the methods involved is proposed. It includes process modeling, process model instantiation, and workflow execution. The approach is implemented in a prototype system with use cases to demonstrate applicability. The objective of the research is to develop the key technologies for an intelligent geospatial knowledge system based on Web services to automate the data discovery and data preprocessing steps in the distributed Web service environment, to automate a range of knowledge discovery processes in a limited geospatial domain, using the automated construction and execution of service chains, and to facilitate the construction of complex services and models for geocomputation.

Introduction to Geospatial Information and Communication Technology (GeoICT) - Rifaat Abdalla 2016-07-25

This book is designed to help students and researchers understand the latest research and development trends in the domain of geospatial information and communication (GeoICT) technologies. Accordingly, it covers the fundamentals of geospatial information systems, spatial positioning technologies, and networking and mobile communications, with a focus on OGC and OGC standards, Internet GIS, and location-based services. Particular emphasis is placed on introducing GeoICT as an integrated technology that effectively bridges various information-technology domains.

Geographic Information Science - George Cho 2005-09-27

Spatial information users and providers are increasingly concerned about the legal implications relating to the use and dissemination of geographic information for which there are no right or wrong methods of practice, and no one source of information. This book fills the gap by addressing key issues in contract law, intellectual property law, rights and responsabilities and liability as they relate to the GI community. The first book to interpret the law relating to GI Science and outline its implications to a general readership Provides a comprehensive discourse in law and GI Science irrespective of jurisdiction Offers a global perspective throughout with case materials coming from the UK, North America, the EU and Australasia

Geographic Information Systems - Tor Bernhardsen 2002-05-23

"If we are to solve many of the problems facing us-in the cities, in the wild areas of the earth, in the atmosphere, and the oceans-we shall need the help of skilled users of GIS technology. If readers can master what is in this volume, they will be well started on this enterprise." -From the Foreword by Jack Dangermond President of ESRI Praise for previous editions: "One of only a small number of texts devoted to the technology of GIS that are truly introductory in nature. . . . Very readable and of

moderate length. Those who are real novices to GIS will find this one attractive." -Computers and Geosciences "Well-rendered and very clear line drawings . . . well written, with a well-balanced blend of technical/theoretical concepts and more applied facts of GIS." - Professional Geographer Geographic Information Systems provides a practical, theory-driven overview of GIS that is supported with clear coverage of basic techniques. This treatment enables readers to understand the broad aspects of GIS without focusing on a specific software or discipline, such as engineering or geography. New features of this Third Edition include: up-to-date information on standardization efforts aimed at facilitating the exchange of ideas and data; technical content that is up to date with current hardware, software, database design, and analytical techniques; and comprehensive cost/benefit guidelines for choosing and evaluating a GIS, including coverage of organizational and technical issues. Complete with extensive references and links to online resources, Geographic Information Systems, Third Edition, is an exceptional resource for students of GIS, planning, land use, natural resources, civil and environmental engineering, real estate, and wildlife biology.

Future U.S. Workforce for Geospatial Intelligence - National Research Council 2013-04-28

We live in a changing world with multiple and evolving threats to national security, including terrorism, asymmetrical warfare (conflicts between agents with different military powers or tactics), and social unrest. Visually depicting and assessing these threats using imagery and other geographically-referenced information is the mission of the National Geospatial-Intelligence Agency (NGA). As the nature of the threat evolves, so do the tools, knowledge, and skills needed to respond. The challenge for NGA is to maintain a workforce that can deal with evolving threats to national security, ongoing scientific and technological advances, and changing skills and expectations of workers. Future U.S. Workforce for Geospatial Intelligence assesses the supply of expertise in 10 geospatial intelligence (GEOINT) fields, including 5 traditional areas (geodesy and geophysics, photogrammetry, remote sensing, cartographic science, and geographic information systems and geospatial analysis) and 5 emerging areas that could improve geospatial intelligence (GEOINT fusion, crowdsourcing, human geography, visual analytics, and forecasting). The report also identifies gaps in expertise relative to NGA's needs and suggests ways to ensure an adequate supply of geospatial intelligence expertise over the next 20 years.

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.

Cartography from Pole to Pole - Manfred Buchroithner 2013-08-16

This volume comprehends a selection of papers presented during the 26th International Cartographic Conference held in Dresden from the 26th to the 30th of August 2013. It covers many fields of relevant Mapping and GIS research subjects, such as cartographic applications, cartographic tools, generalisation and update Propagation, higher dimensional visualisation and augmented reality, planetary mapping issues, cartography and environmental modelling, user generated content and spatial data infrastructure, use and usability as well as cartography and GIS in education.

GIS Fundamentals - Paul Bolstad 2005

The Geospatial Web - Arno Scharl 2009-02-28

This volume emphasizes the applications and implications of the Geospatial Web and the role of contextual knowledge in shaping the emerging network society. There is a clear focus on applied geospatial

aspects. The book has contributions from a very active research community. Containing chapters from renowned researchers and practitioners, this volume will be invaluable to all interested in this field.

Oceanobs'19: An Ocean of Opportunity. Volume III - Tong Lee 2020-12-31

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Library & Information Science Abstracts - 2003

Documentation Abstracts - 2003

Geographic Information Research - Massimo Craglia 1997-01-28

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.

Cartography and Geographic Information Science - 2005