

Spatial data quality elements

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graph TD; A[Spatial data quality elements] --> B[Logical consistency]; A --> C[Positional accuracy]; A --> D[Temporal accuracy]; B --> B1[Conceptual]; B --> B2[Domain]; B --> B3[Format]; B --> B4[Topological]; C --> C1[Absolute - external]; C --> C2[Relative - internal]; C --> C3[Gridded data position]; D --> D1[Accuracy of a time measurement]; D --> D2[Temporal consistency]; D --> D3[Temporal validity];
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Logical consistency

Conceptual

Domain

Format

Topological

Positional accuracy

Absolute - external

Relative - internal

Gridded data position

Temporal accuracy

Accuracy of a time measurement

Temporal consistency

Temporal validity

Spatial Data Quality

Shi Wenzhong, Bo Wu, Alfred Stein



Spatial Data Quality:

Elements of Spatial Data Quality S.C. Guptill, J.L. Morrison, 2013-10-22 Elements of Spatial Data Quality outlines the need and suggests potential categories for the content of a comprehensive statement of data quality that must be imbedded in the metadata that accompanies the transfer of a digital spatial data file or is available in a separate metadata catalog. Members of the International Cartographic Association's Commission on Spatial Data Quality have identified seven elements of data quality: positional accuracy, attribute accuracy, completeness, logical consistency, lineage, semantic accuracy, and temporal information. In the book, the authors describe components of each data quality element, possible metrics that can be used to measure the quality of each criteria, possible testing and rating schemes, and how these parameters might differ from a producer or user point of view. Finally, no volume of this nature would be complete without a chapter devoted to necessary future research in this subject area. The chapter points out areas in need of further investigation and speculates about the use and transfer of digital spatial data in tomorrow's electronic world and at developments in presenting specified data quality information in a visualization. This book will be of interest to all of those individuals involved in geographical information systems and spatial data handling.

Fundamentals of Spatial Data Quality Rodolphe Devillers, Robert Jeansoulin, 2010-01-05 This book explains the concept of spatial data quality, a key theory for minimizing the risks of data misuse in a specific decision making context. Drawing together chapters written by authors who are specialists in their particular field, it provides both the data producer and the data user perspectives on how to evaluate the quality of vector or raster data, which are both produced and used. It also covers the key concepts in this field, such as how to describe the quality of vector or raster data, how to enhance this quality, how to evaluate and document it using methods such as metadata, how to communicate it to users, and how to relate it with the decision making process. Also included is a Foreword written by Professor Michael F. Goodchild.

Spatial Data Quality Rodolphe Devillers, Helen Goodchild, 2010 This book provides an up to date overview of research being done in the field of spatial data quality, which looks at understanding, measuring, describing, and communicating information about the imperfections of geographic data used by GIS and other mapping software. It presents results from a number of current research projects in this area, from the assessment of data accuracy to legal aspects relating to the quality of geographic information. From publisher's description.

Spatial Data Quality Wenzhong Shi, Peter Fisher, Michael F. Goodchild, 2002-09-05 As research in the geosciences and social sciences becomes increasingly dependent on computers, applications such as geographical information systems are becoming indispensable tools. But the digital representations of phenomena that these systems require are often of poor quality, leading to inaccurate results, uncertainty, error propagation, and

Spatial Data Quality Pepijn van Oort, 2005

Quality Aspects in Spatial Data Mining Alfred Stein, Wenzhong Shi, Wietske Bijker, 2016-04-19 Describes the State of the Art in Spatial Data Mining. Focuses on Data Quality. Substantial progress has been made toward developing effective techniques for spatial information processing in

recent years This science deals with models of reality in a GIS however and not with reality itself Therefore spatial information processes are often imprecise

Manual of Geospatial Science and Technology John D. Bossler, John R. Jensen, Robert B. McMaster, Chris Rizos, 2001-11-22 Manual of Geospatial Science and Technology shows how to work across the range of geospatial science and technology whether as a user or as a contractor of services employing these technologies and without either specialist education or substantial experience The manual covers the fundamentals providing the requisite mathematics computer science and physics necessary to understand how the technologies work assuming some elementary background in calculus and physics It also shows how the technologies can be used together and focuses on their commonalities A number of applications such as mapping and environmental modeling are presented and a Web site accompanies the book

Spatial Data Quality Management in ArcGIS Pro AHMED MAHMOUED. ABBAS, Rasha Saber Nofal Abdelkawy Nofal, 2025-01-13 The book Spatial Data Quality Management in ArcGIS Pro serves as a comprehensive reference for anyone seeking to enhance the quality and analysis of spatial data effectively using ArcGIS Pro Spatial data quality is the backbone of any project that relies on Geographic Information Systems GIS Decisions based on low quality data can often be inaccurate or misleading This book provides the tools and methods necessary to ensure data accuracy and validity through a comprehensive approach that covers all aspects of spatial quality management The book comprises six chapters preceded by an introduction 1 Chapter One explores Data Engineering focusing on the foundations of metadata 2 Chapter Two covers Data Quality Control Using Topology Rules 3 Chapter Three delves into managing geospatial data through Attribute Rules including calculation constraint and validation rules 4 Chapter Four discusses Data Quality Management Using Data Reviewer highlighting how to run batch jobs manage errors and generate reports 5 Chapter Five offers a simplified explanation of Attribute Rules while showcasing the use of AI tools such as ChatGPT to enhance data quality and simplify coding tasks 6 The final chapter introduces the basics of ArcGIS Arcade laying a scientific foundation for readers to better understand the rules used to ensure data quality This book is designed to guide readers through practical and theoretical aspects enabling them to effectively manage spatial data quality while leveraging advanced tools and methodologies

Spatial Data Quality Wenzhong Shi, Peter F. Fisher, Michael F. Goodchild, 2002 As research in the geosciences and social sciences becomes increasingly dependent on computers applications such as geographical information systems are becoming indispensable tools But the digital representations of phenomena that these systems require are often of poor quality leading to inaccurate results uncertainty error propagation and potentially legal liability Spatial data quality has become an essential research topic within geographical information science This book covers many of the cutting edge research issues related to spatial data quality including measurement in GIS and geostatistics the modeling of spatial objects that have inherent uncertainty spatial data quality control quality management communicating uncertainty and resolution reasoning and decision making visualization of uncertainty and error metadata It will be of

interest to anyone undertaking research using GIS and related technologies *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

Exploring Remote Sensing - Methods and Applications Rifaat M. Abdalla, 2025-01-22 Exploring Remote Sensing Methods and Applications is a comprehensive guide that examines the transformative world of remote sensing technologies Structured into three distinct sections the book begins with section 1 Advanced Techniques in Remote Sensing which presents methodologies for landslide detection asbestos cement mapping and wetland monitoring highlighting the integration of computational optics and Google Earth Engine Section 2 Geospatial Frontiers Challenges and Innovations addresses the complexities and opportunities within distributed geospatial information systems and the potential of geospatial data emphasizing the need for adaptive strategies in an evolving landscape In the final section Harnessing Remote Sensing for Agricultural Insights the readers will discover innovative crop yield prediction techniques and vegetation indices impact on land surface temperature showcasing the pivotal role of remote sensing in sustainable agriculture This book is an essential resource for researchers practitioners and students aiming to explore the vast applications of remote sensing in addressing contemporary challenges *Web Information Systems Engineering - WISE 2014 Workshops* Boualem Benatallah, Azer Bestavros, Barbara Catania, Armin Haller, Yannis Manolopoulos, Athena Vakali, Yanchun Zhang, 2015-06-17 This book constitutes the revised selected papers of the combined workshops on Web Information Systems Engineering WISE 2014 held in Thessaloniki Greece in October 2014 The 19 selected papers presented were carefully revised and report from the four workshops computational social networks IWCSN 2014 enterprise social networks Org2 2014 personalization and context awareness in cloud and service computing PCS 2014 and data quality and trust in big data QUAT 2014

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

ADVANCED GEOGRAPHIC INFORMATION SYSTEMS -Volume II, 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

Progress in Geospatial Analysis Yuji Murayama, 2012-07-06 This book examines current trends and developments in the methods and applications of geospatial analysis and highlights future development prospects It provides a comprehensive discussion of remote sensing and geographical information system GIS based data processing techniques current practices theories models and applications of geospatial analysis Data acquisition and processing techniques such as remote sensing image selections classifications accuracy assessments models of GIS data and spatial modeling processes are the focus of the first part of the book In the second part theories and methods related to fuzzy sets spatial weights and prominence geographically weighted regression weight of evidence Markov cellular automata artificial neural network agent based simulation multi criteria evaluation analytic hierarchy process and a GIS network model are included Part three presents selected best practices in geospatial analysis The chapters all by expert authors are arranged so that readers who are new to the field will gain an overview and important insights Those readers who are already practitioners will gain from the advanced and updated materials and state of the art developments in geospatial analysis

GIS for Environmental Applications Xuan Zhu, 2016-05-26 GIS for Environmental Applications provides a practical introduction to the principles methods techniques and tools in GIS for spatial data management analysis modelling and visualisation and their applications in environmental problem solving and decision making It covers the fundamental concepts principles and techniques in spatial data spatial data management spatial analysis and modelling spatial visualisation spatial interpolation spatial statistics and remote sensing data analysis as well as demonstrates the typical environmental applications of GIS including terrain analysis hydrological modelling land use analysis and modelling ecological modelling and ecosystem service valuation Case studies are used in the text to contextualise these subjects in the real world examples and detailed tutorials are provided in each chapter to show how the GIS techniques and tools introduced in the chapter can be implemented using ESRI ArcGIS a popular GIS software system for environmental applications and other third party extensions to ArcGIS to address The emphasis is placed on how to apply or implement the concepts and techniques of GIS through illustrative examples with step by step instructions and numerous annotated screen shots The features include Over 350 figures and tables illustrating how to apply or implement the concepts and techniques of GIS Learning objectives along with the end of chapter review questions Authoritative references at the end of each chapter GIS data files for all examples as well as PowerPoint presentations for each chapter downloadable from the companion website GIS for Environmental Applications weaves theory and practice together assimilates the most current GIS knowledge and tools relevant to environmental research management and planning and provides step by step tutorials with practical

applications This volume will be an indispensable resource for any students taking a module on GIS for the environment

Advanced Technologies, Systems, and Applications III Samir Avdaković, 2018-11-03 This book introduces innovative and interdisciplinary applications of advanced technologies Featuring the papers from the 10th DAYS OF BHAAAS Bosnian Herzegovinian American Academy of Arts and Sciences held in Jahorina Bosnia and Herzegovina on June 21-24 2018 it discusses a wide variety of engineering and scientific applications of the different techniques Researchers from academic and industry present their work and ideas techniques and applications in the field of power systems mechanical engineering computer modelling and simulations civil engineering robotics and biomedical engineering information and communication technologies computer science and applied mathematics

Research Trends in Geographic Information Science Gerhard Navratil, 2009-06-17 In June/July 2008 the Institute for Geoinformation and Cartography at the Vienna University of Technology organized a scientific colloquium in this city where 15 well known scientists presented their ideas on research for the upcoming decade This book contains papers prepared by the participants as well as by other researchers The eighteen papers in this book reflect the opinion of a core group of Geoinformation scientists about future research topics Dealing with these topics poses multiple research questions for the coming years

Uncertainty Modelling and Quality Control for Spatial Data Shi Wenzhong, Bo Wu, Alfred Stein, 2015-11-04 Offers New Insight on Uncertainty Modelling Focused on major research relative to spatial information Uncertainty Modelling and Quality Control for Spatial Data introduces methods for managing uncertainties such as data of questionable quality in geographic information science GIS applications By using original research current advancement and

Key Concepts and Techniques in GIS Jochen Albrecht, 2007-08-20 Key Concepts and Techniques in GIS is a concise overview of the fundamental ideas that inform geographic information science It provides detailed descriptions of the concepts and techniques that anyone using GIS software must fully understand to analyse spatial data Short and clearly focussed chapters provide explanations of spatial relationships and spatial data the creation of digital data the use and access of existing data the combination of data the use of modelling techniques and the essential functions of map algebra spatial statistics and spatial analysis geocomputation including discussion of neural networks cellular automata and agent based modelling Illustrated throughout with explanatory figures the text also includes a glossary cross referenced to discussion in the text Written very much from a user's perspective Key Concepts and Techniques in GIS is highly readable refresher course for intermediate level students and practitioners of GIS in the social and the natural sciences

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