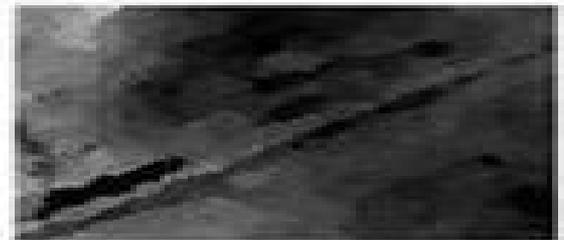
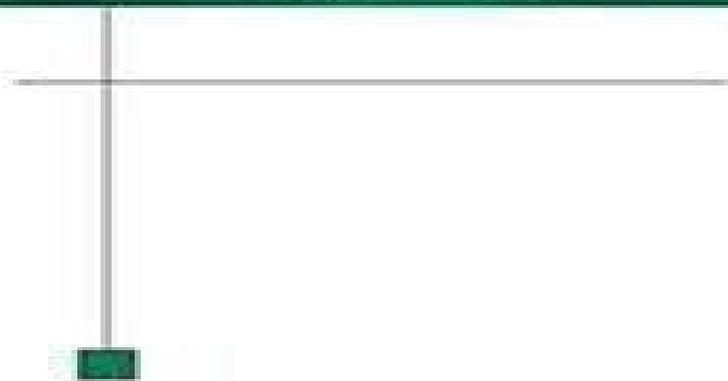


Uncertainty in Geographic Information



Jingxiong Zhang
Mike Goodchild

Uncertainty In Geographical Information

Kim Lowell, Annick Jaton



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Uncertainty in Geographical Information Jingxiong Zhang, Michael F. Goodchild, 2002-03-29 As Geographic Information Systems GIS develop there is a need to demystify the complex geographical world to facilitate computerization in GIS by the inaccuracies that emerge from man machine interactions in data acquisition and by error propagation in geoprocessing Users need to be aware of the impacts of uncertainties in spatial analysis and decision making *Uncertainty in Geographical Information* discusses theoretical and practical aspects of spatial data processing and uncertainties and covers a wide range of types of errors and fuzziness and emphasizes description and modeling High level GIS professionals researchers and graduate students will find this a constructive book

Uncertainty and Context in GIScience and Geography Yongwan Chun, Mei-Po Kwan, Daniel A. Griffith, 2021-05-13 Uncertainty and context pose fundamental challenges in GIScience and geographic research Geospatial data are imbued with errors e g measurement and sampling and various types of uncertainty that often obfuscate any understanding of the effects of contextual or environmental influences on human behaviors and experiences These errors or uncertainties include those attributable to geospatial data measurement model specifications delineations of geographic context in space and time and the use of different spatiotemporal scales and zonal schemes when analyzing the effects of environmental influences on human behaviors or experiences In addition emerging sources of geospatial big data including smartphone data data collected by GPS and various types of wearable sensors e g accelerometers and air pollutant monitors volunteered geographic information and or location based social media data i e crowd sourced geographic information inevitably contain errors and their quality cannot be fully controlled during their collection or production *Uncertainty and Context in GIScience and Geography Challenges in the Era of Geospatial Big Data* illustrates how cutting edge research explores recent advances in this area and will serve as a useful point of departure for GIScientists to conceive new approaches and solutions for addressing these challenges in future research The seven core chapters in this book highlight many challenges and opportunities in confronting various issues of uncertainty and context in GIScience and geography tackling different topics and approaches The chapters in this book were originally published as a special issue of the *International Journal of Geographical Information Science*

Geographic Information Systems and Science Paul Longley, 2005-03-22 Features a five part structure covering Foundations Principles Techniques Analysis and Management and Policy This book includes chapters on Distributed GIS Map Production Geovisualization Modeling and Managing GIS It offers coverage of such topics as GIS and the New World Order security health and well being and the greening of GIS

[Uncertainty in Remote Sensing and GIS](#) Giles M. Foody, Peter M. Atkinson, 2003-07-11 Remote sensing and geographical information science GIS have advanced considerably in recent years However the potential of remote sensing and GIS within the environmental sciences is limited by uncertainty especially in connection with the data sets and methods used In many studies the issue of uncertainty has been incompletely addressed The situation has arisen in part from

a lack of appreciation of uncertainty and the problems it can cause as well as of the techniques that may be used to accommodate it This book provides general overviews on uncertainty in remote sensing and GIS that illustrate the range of uncertainties that may occur in addition to describing the means of measuring uncertainty and the impacts of uncertainty on analyses and interpretations made Uncertainty in Remote Sensing and GIS provides readers with comprehensive coverage of this largely undocumented subject Relevant to a broad variety of disciplines including geography environmental science electrical engineering and statistics Covers range of material from base overviews to specific applications Focuses on issues connected with uncertainty at various points along typical data analysis chains used in remote sensing and GIS Written by an international team of researchers drawn from a variety of disciplines Uncertainty in Remote Sensing and GIS provides focussed discussions on topics of considerable importance to a broad research and user community The book is invaluable reading for researchers advanced students and practitioners who want to understand the nature of uncertainty in remote sensing and GIS its limitations and methods of accommodating it

Data Quality in Geographic Information Michael F. Goodchild, Robert Jeansoulin, 1998

Geographic Uncertainty in Environmental Security Ashley Morris, Svitlana Kokhan, 2007-09-14 On June 28 through July 1 2006 a NATO advanced research workshop was held in Kyiv Ukraine This meeting of scholars from both NATO and NATO partner countries brought together the leading researchers in the field of Fuzziness and Uncertainty in GIS for Environmental Security and Protection The papers based upon the presentations at this meeting are included in this book They were all quite good some focusing on the use of fuzzy sets in geography others focusing on explicit environmental concerns in Ukraine What this book cannot show is the camaraderie and spirit of cooperation that permeated the atmosphere of this workshop These researchers many of whom had never met before are now colleagues and are continuing to collaborate on research to this day and probably beyond Scholars from various positions and countries have chosen to work together in the spirit of cooperation to make the ideas presented in this book come to fruition At press time we do not know if Ukraine will become a NATO member or not In any case the editors wish to thank the NATO Science Committee for their funding encouragement and work in making this workshop a reality We hope that the spirit of cooperation and intellectual curiosity that was so lively at the conference will encourage the reader in the perusal of this work

Uncertainty in Geographic Information Systems and Spatial Data Maria Cobb, 2000

Managing Uncertainty in Digital Geographical Information: , 1995 This report presents results of a survey of the state of the technology in uncertainty management techniques with specific reference to geographical data uncertainty It reviews uncertainty data collection modelling representation propagation and visualization including animation the application of fuzzy logic in handling spatial data The report also identifies areas within the DIGEST Digital Geographic Information Exchange Standard format that might be modified to facilitate uncertainty management The following changes to DIGEST are discussed resolution of internal inconsistencies development of a modelling language addition of specifications for quality

control testing modification of lineage data quality representation enhancement of topological consistency and development of toolkits for generating quality assurance measures for viewing uncertainty information Estimating Prediction Uncertainty from Geographical Information System Raster Processing Jason J. Gurdak, Sharon L. Qi, Michael L. Geisler, 2014-06-16 Error that is inherent to geospatial raster data can propagate through geospatial models that are used in geographic information systems GIS for many natural science and social science applications The error propagation can result in substantial and spatially variable prediction uncertainty in model results Consequently prediction uncertainty has important implications for the use and interpretation of geospatial model results by scientists environmental regulators resource managers elected officials and the general public *Managing Uncertainty in Digital Geographical Information*, 1995 The rapid growth in geographic information systems GIS their applications and data sharing and exchange activities have created a requirement to standardise data transfer formats for GIS information A data transfer standard called DIGEST Digital Geographic Information Exchange Standard has been designed to enable transfer of digital geographic information among nations and applies to both civilian and military applications Data quality information is one of the elements found in DIGEST allowing users to evaluate the quality of exchanged geographical data and to integrate the data into a receiving database without ambiguity However few existing GIS provide tools for data quality management This report documents the first phase of a project to identify and understand the real and perceived market requirements for uncertainty management with respect to digital geographic information It describes a literature review and a user needs survey that solicited information from over 160 data suppliers GIS vendors data users and experienced DIGEST users The survey identified several issues of importance to digital geographic data users and assessed the ability of the current version of DIGEST to address those issues **Spatial Accuracy Assessment** Kim Lowell, Annick Jatou, 2000-03-01 Spatial technologies such as GIS and remote sensing are widely used for environmental and natural resource studies Spatial Accuracy Assessment provides state of the science methods techniques and real world solutions designed to validate spatial data to meet quality assurance objectives and to ensure cost effective project implementation Quantifying Spatial Uncertainty in Natural Resources H. Todd Mowrer, Russell G. Congalton, 2000-03-01 This book will be useful both to those new to spatial uncertainty assessment and to experienced practitioners **Geographical Information Systems** Paul Longley, 2005-05-03 CD ROM contains full text in searchable PDF format and color image gallery **Geographical Information Systems: Management issues and applications**, 1999 **7th Annual Symposium on Geographic Information Systems in Forestry, Environment and Natural Resources Management**, 1993 **Managing Uncertainty in Digital Geographical Information, Proof of Concept**, 1997 The previous part of the project described in this report involved the definition of appropriate quality indicators for a digital geographic dataset and the application of these defined indicators to a DIGEST formatted dataset This report details the application of these defined quality indicators to an active geographical dataset

involving the identification of a control dataset against which the accuracy of the test dataset would be measured Both datasets were transformed into the same format and reference points on each of the themes available in the test dataset were identified as appropriate and measurements were made to obtain a finite value for each quality component The completed information was then used to demonstrate the accuracy of the features displayed using a data quality viewer Consideration was given to possible concepts suitable for development of the visualization software to be written The usefulness of the software tools developed was tested by a demonstration using the test dataset The data quality viewer was also enhanced to support displaying bit maps or raster image backdrops Sample screens are included for illustration

The Routledge Handbook of Methodologies in Human Geography Sarah A. Lovell, Stephanie E. Coen, Mark W. Rosenberg, 2022-10-18 The Routledge Handbook of Methodologies in Human Geography is the defining reference for academics and postgraduate students seeking an advanced understanding of the debates methodological developments and methods transforming research in human geography Divided into three sections Part I reviews how the methods of contemporary human geography reflect the changing intellectual history of human geography and events both within human geography and society in general In Part II authors critically appraise key methodological and theoretical challenges and opportunities that are shaping contemporary research in various parts of human geography Contemporary directions within the discipline are elaborated on by established and emerging researchers who are leading ontological debates and the adoption of innovative methods in geographic research In Part III authors explore cross cutting methodological challenges and prompt questions about the values and goals underpinning geographical research work such as Who are we engaging in our research Who is our research for What are our relationships with communities Contributors emphasize examples from their research and the research of others to reflect the fluid emotional and pragmatic realities of research This handbook captures key methodological developments and disciplinary influences emerging from the various sub disciplines of human geography

Spatial Uncertainty for Ecology, 2001-06-29 This is one of the first books to take an ecological perspective on uncertainty in spatial data It applies principles and techniques from geography and other disciplines to ecological research and thus delivers the tools of cartography cognition spatial statistics remote sensing and computer sciences by way of spatial data After describing the uses of such data in ecological research the authors discuss how to account for the effects of uncertainty in various methods of analysis

Cartography and Geographic Information Science, 2005 **MIPPR 2005** Jianya Gong, 2005 Proceedings of SPIE offer access to the latest innovations in research and technology and are among the most cited references in patent literature

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Uncertainty In Geographical Information**

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