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Modelling Scale in Geographical Information Science

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Modelling Scale In Geographical Information Science

Giles M. Foody, Peter M. Atkinson



Modelling Scale In Geographical Information Science:

Modelling Scale in Geographical Information Science Nicholas Tate, Peter M. Atkinson, 2001-12-05 Scale has long been a fundamental concept in geography. Its importance is emphasised in geographical information science (GIScience) where the computational domain necessitates the rigorous definition and handling of scale. Geographical information systems are now used in almost every walk of life but scale is often handled poorly in such systems. *Modelling Scale in Geographical Information Science* is written by an international team of contributors drawn from both industry and academia and considers models and methods of scaling spatial data in both human and physical systems. Divided into three sections to give a balanced coverage of the key problems, tools and models associated with scale: Fractal Models, The Modifiable Areal Unit Problem, Changing the Scale of Measurement. This book is an essential read for all GIScience researchers, advanced students and practitioners who want to delve more deeply into the scale issues of the spatial data and spatial models that form the basis of their analyses.

A Research Agenda for Geographic Information Science Robert B. McMaster, E. Lynn Utery, 2004-08-30 A close relationship exists between GIS and numerous applications including cartography, photogrammetry, geodesy, surveying, computer and information science and statistics among others. Scientists coined the term geographic information science (GIScience) to describe the theory behind these fields. *A Research Agenda for Geographic Information*

Geographic Information Science and Mountain Geomorphology Michael Bishop, John F. Schroder, 2004-06-30 From the reviews: Bishop and Schroder both of the Univ of Nebraska at Omaha have brought together an impressive group of practitioners in the relatively new application of geographic information science to mountain geomorphology. In doing so they have produced valuable first overall coverage of a high tech approach to mountain three dimensional research. More than 40 contributing authors discuss a wide range of related aspects. The book is well bound and well produced; each chapter provides an extensive source of references. The numerous line drawings are clearly reproduced although the mediocre quality of photographic reproduction limits the value of air photographs and satellite images. As is characteristic of many edited collections, there is some variation in chapter quality. Some of the writing is so dense that it requires minute concentration; one chapter for instance has 14 pages of references from a total of 43 pages. Nevertheless, this is a vital compendium for a rapidly expanding field of research. Summing Up: Recommended. Upper division undergraduates through professionals. J D Ives Choice March 2005.

Geographic Information Science Sara Irina Fabrikant, Tamas Reichenbacher, Marc van Kreveld, Christoph Schlieder, 2010-09-09 Since its inception in Savannah, Georgia, USA in 2000, the highly successful GIScience conference series www.giscience.org has regularly attracted over 250 researchers from all over the world whose common interest lies in advancing the research frontiers of fundamental aspects of the production, dissemination and use of geographic information. The conference is bi-annual and brings together leading researchers from all cognate disciplines reflecting the interdisciplinary breadth of GIScience, including but not limited to geography, cognitive science, computer science,

engineering information science mathematics philosophy psychology social science and geo statistics Following the literally breathtaking conference in Park City Utah USA at 2103m the sixth GIScience 2010 conference returned to Europe for the second time The 2010 conference was held in Zurich Switzerland a place nominated repeatedly as the world's most livable if not cheapest city Zurich is also a GIScience landmark as in 1990 one of the founders of the GIScience conference series Dr Michael Goodchild delivered a memorable talk setting out how fundamental research on GISystems could turn into GIScience at the very same conference location during the Spatial Data Handling Symposium

Modelling Urban Development with Geographical Information Systems and Cellular Automata Yan Liu, 2008-12-10 Urban development and migration from rural to urban areas are impacting prime agricultural land and natural landscapes particularly in the less developed countries These phenomena will persist and require serious study by those monitoring global environmental change To address this need various models have been devised to analyze urbanization a 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 Application of Geographic Information Systems in Hydrology and Water Resources Management Karel Kovar, H. P. Nachtnebel, 1996

Agent-Based Modelling and Geographical Information Systems Andrew Crooks, Nicolas Malleon, Ed Manley, Alison Heppenstall, 2018-12-13 This is the era of Big Data and computational social science It is an era that requires tools which can do more than visualise data but also model the complex relation between data and human action and interaction Agent Based Models ABM computational models which simulate human action and interaction do just that This textbook explains how to design and build ABM and how to link the models to Geographical Information Systems It guides you from the basics through to constructing more complex models which work with data and human behaviour in a spatial context All of the fundamental concepts are explained and related to practical examples to facilitate learning with models developed in NetLogo with all code examples available on the accompanying website You will be able to use these models to develop your own applications and link where appropriate to Geographical Information Systems All of the key ideas and methods are explained in detail geographical modelling an introduction to ABM the fundamentals of Geographical Information Science why ABM and GIS using QGIS designing and building an ABM calibration and validation modelling human behavior An applied primer that provides fundamental knowledge and practical skills it will provide you with the skills to build and run your own models and to begin your own research projects 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.

Exploring Spatial Scale in Geography Christopher D. Lloyd, 2014-05-12 *Exploring Spatial Scale in Geography* provides a conceptual and practical guide to issues of spatial scale in all areas of the physical and social sciences. Scale is at the heart of geography and other spatial sciences. Whether dealing with geomorphological processes, population movements, or meteorology, a consideration of spatial scale is vital. *Exploring Spatial Scale in Geography* takes a practical approach with a core focus on real world problems and potential solutions. Links are made to appropriate software environments with an associated website providing access to guidance material which outlines how particular problems can be approached using popular GIS and spatial data analysis software. This book offers alternative definitions of spatial scale, presents approaches for exploring spatial scale, and makes use of a wide variety of case studies in the physical and social sciences to demonstrate key concepts, making it a key resource for anyone who makes use of geographical information.

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