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Paul Longley (B.Sc., Ph.D., D.Sc., FAcSS) is Professor of Geographic Information Science at University College London, UK, where he also directs the ESRC Consumer Data Research Centre. His research interests are focused around socioeconomic applications of GIScience, in geo-temporal demographics, retailing, genealogy and urban modelling, latterly often using Big Data analytics.

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Professor Paul Longley – UCL Department of Geography

Geographic Information Science and Systems:
Authors: Paul A. Longley, Michael F. Goodchild, David J. Maguire, David W. Rhind:
Edition: 4, illustrated: Publisher: John Wiley & Sons, 2015: ISBN: 1118676955, 9781118676950: Length: 496 pages: Subjects

Geographic Information Science and Systems - Paul A ...

Geographic Information Systems and Science has become the pre-eminent textbook in its field, for students and practitioners alike. Its unique approach communicates the richness and diversity of CIS in a lucid and accessible format.

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Geographic Information Systems and Science by Paul A. Longley

Geographic Information Systems and Science by Paul A. Longley Geographic Information Systems and Science is a landmark in the evolution of GIS. It is a book that captures and redefines the richness and diversity of GIS, in an accessible form.

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Description. Geographic Information Systems and Science has become the pre-eminent textbook in its field, for students and practitioners alike. Its unique approach communicates the richness and diversity of GIS in a lucid and accessible format. This fully revised and updated second edition reinforces the view of GIS as a gateway to science and problem solving, sets out the scientific principles that govern its use, and describes the impact of people on its development, design, and success.

Geographical information systems and science by Longley, Paul

This study is an attempt to address the issue of gas theft through the deployment of Geographic Information System (GIS) capabilities (Spatial Analysis) to import external factors into the current gas theft detection methods, improve data mining processes, and offer some management solutions.

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Longley, P.A., et al. (2011) Geographic Information ...

Geographic Information Systems and Science. Paul A. Longley, Michael F. Goodchild, David J. Maguire, David W. Rhind. John Wiley & Sons, Mar 22, 2005 - Science - 517 pages. 4 Reviews. The first edition of Geographic Information Systems and Science has taken the GIS textbook market by storm, selling over 22,000 copies since publication. It is the most current, authoritative and comprehensive treatment of the field, that goes from fundamental principles to the big picture.

Effective use of today's vast geographic information (GI) resources requires more than just powerful technology for problem solving. It requires science to help us understand the way the world works, and to help us devise effective procedures for making decisions. Three previous editions have established this text as a defining multidisciplinary treatment of the scientific principles that underpin the use of geographic information technologies for problem solving. This extensively revised and updated edition provides a guide to the enduring scientific principles and information systems that support effective use of today's GI. It also provides a primer on essential methods for analysis of GI, and the ways in which

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Effective management of GI informs policy and action.

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.

This landmark text captures and redefines the richness and diversity of GIS, in an accessible form. It presents a clearly-defined path to a world of learning about GIS, using the Internet and closely-coupled reference sources. It is richly produced and illustrated unlike any other in the field, with over 300 full colour illustrations. Unique in several ways, it presents comprehensive treatments of: Geographic Information Science – the scientific context to GIS, technical content and geographic implications The real value of GIS – illustrated using real world applications. Treatments emphasize operational, tactical and strategic issues The impact of Internet GIS on interdisciplinary science and society The pivotal role of GIS as a business driver in the information age – including the role of GIS as a business asset and the operational

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The Third Edition of this bestselling textbook has been fully revised and updated to include the latest developments in the field and still retains its accessible format to appeal to a broad range of students. Now divided into five clear sections the book investigates the unique, complex and difficult problems that are posed by geographic information and together they build into a holistic understanding of the key principles of GIS. This is the most current, authoritative and comprehensive treatment of the field, that goes from fundamental principles to the big picture of: GIS and the New World Order security, health and well-being digital differentiation in GIS consumption the core organizing role of GIS in Geography the greening of GIS grand challenges of GIScience science and

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Explanation Key features: Four-colour throughout Associated website with free online resources Teacher's manual available for lecturers A complete learning resource, with accompanying instructor links, free online lab resources and personal syllabi Includes learning objectives and review boxes throughout each chapter New in this edition: Completely revised with a new five part structure: Foundations; Principles; Techniques; Analysis; Management and Policy All new personality boxes of current GIS practitioners New chapters on Distributed GIS, Map Production, Geovisualization, Modeling, and Managing GIS

GIS for Business and Service Planning Edited by Paul Longley, Graham Clarke The field of geographical information systems (GIS) is developing rapidly, finding applications in an ever-widening range of commercial contexts. This volume examines the practical use of GIS for business and service planning. It considers ways in which GIS may be customised to meet specific user requirements and tackle the applied research challenges of the late 1990s. GIS for Business and Service Planning: * introduces the management, analysis and modelling of information within GIS and considers some of the basic problems and pitfalls that can occur in practice * covers the major topics of geodemographics and how geographical information can be manipulated and merged into business application databases

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* discusses the relative merits of customised versus proprietary solutions to business application databases * examines the range of consultancy applications of GIS for business using international case studies, assessing how recent applications have benefited from research developments * critically assesses GIS in the market place and evaluates different GIS strategies GIS for Business and Service Planning is essential reading for GIS professionals, marketers, GIS students and management scientists. The other contributors: Peter Batey (University of Liverpool), Mark Birkin (GMAP), Peter Brown (University of Liverpool), Martin Clarke (GMAP), Paul Cresswell (SPA Marketing Systems), David Maguire (ESRIUS), David Martin (University of Southampton), Ian Masser (University of Sheffield), Stan Openshaw (University of Leeds), Nora Sherwood (GIS World) and Robin Waters (GeoInformation International).

Addresses a range of analytical techniques that are provided within modern Geographic Information Systems and related geospatial software products. This guide covers: the principal concepts of geospatial analysis; core components of geospatial analysis; and, surface analysis, including surface form analysis, gridding and interpolation methods.

Spatial Analysis: Modelling in a GIS Environment Edited by Paul Longley and Michael

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Batty Digital data and information are used increasingly by academics, professionals, local authorities, and government departments. Powerful new technologies, such as geographic information systems (GIS), are being developed to analyse such data, and GIS technologies are rapidly becoming part of the emergent world digital infrastructure. This book shows how computer methods of analysis and modelling, built around GIS, can be used to identify ways in which our cities and regions might be better planned and understood. The contributors to this book are all actively involved in research using geographic information systems. This book will be valuable reading for: * Geographers, researchers, and regional analysts * Population theorists and regional economists with interests in large-scale demographic and employment data * Planners and policy-makers who wish to use GIS to improve their decision making * Business analysts who wish to explore markets using the most recent advances in digital spatial data technology * All those interested in geodemographics Paul Longley is Professor of Geography at the Department of Geography, University of Bristol, United Kingdom. Michael Batty is Professor of Spatial Analysis and Planning at the University College London. United Kingdom.

"Describing the latest developments in GIS applications at the Centre for Advanced

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Spatial Analysis (CASA) at the University College, London, this book demonstrates how CASA is advancing spatial decision systems and spatial analysis, which are essential to solving problems and better understanding how people live. How these systems and analyses are drawn from archaeology, architecture, cartography, computer science, environmental science, geography, planning, remote sensing, geomatic engineering, and transport studies is explained. Highlighted are projects such as Digital Egypt, which describes virtual reality reconstructions for Egyptian archaeological finds, and Virtual cities, which explores the concepts and nature of virtual cities, from early CAD models to the newly emerging data-rich cities that merge GIS with three-dimensional visualization."

This landmark text captures and redefines the richness and diversity of GIS, in an accessible form. It presents a clearly-defined path to a world of learning about GIS, using the Internet and closely-coupled reference sources. It is richly produced and illustrated unlike any other in the field, with over 300 full colour illustrations. Unique in several ways, it presents comprehensive treatments of: Geographic Information Science – the scientific context to GIS, technical content and geographic implications The real value of GIS – illustrated using real world applications. Treatments emphasize

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(<http://campus.esri.com>) Instructor's Manual to assist in the planning and use of this text in a variety of academic environments (<http://www.wiley.co.uk/gis>) Free on-line access to relevant chapters of the first edition of the two-volume 'Big Book 1' (<http://www.wiley.co.uk/gis>) Questions for further study at the end of each chapter (<http://www.wiley.co.uk/gis>) Powerpoint slides to assist teaching

This new Handbook unites cartographic theory and praxis with the principles of cartographic design and their application. It offers a critical appraisal of the current state of the art, science, and technology of map-making in a convenient and well-illustrated guide that will appeal to an international and multi-disciplinary audience. No single-volume work in the field is comparable in terms of its accessibility, currency, and scope. The Routledge Handbook of Mapping and Cartography draws on the wealth of new scholarship and practice in

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This emerging field, from the latest conceptual developments in mapping and advances in map-making technology to reflections on the role of maps in society. It brings together 43 engaging chapters on a diverse range of topics, including the history of cartography, map use and user issues, cartographic design, remote sensing, volunteered geographic information (VGI), and map art. The title's expert contributions are drawn from an international base of influential academics and leading practitioners, with a view to informing theoretical development and best practice. This new volume will provide the reader with an exceptionally wide-ranging introduction to mapping and cartography and aim to inspire further engagement within this dynamic and exciting field. The Routledge Handbook of Mapping and Cartography offers a unique reference point that will be of great interest and practical use to all map-makers and students of geographic information science, geography, cultural studies, and a range of related disciplines.

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