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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

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Edition: 4, illustrated: Publisher: John

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

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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.

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to assist in the planning and use of this

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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

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

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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."

Clear, up-to-date coverage of methods for analyzing geographical information in a GIS

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Context Geographic Information Analysis, Second Edition is fully updated to keep pace with the most recent developments of spatial analysis in a geographic information systems (GIS) environment. Still focusing on the universal aspects of this science, this revised edition includes new coverage on geovisualization and mapping as well as recent developments using local statistics. Building on the fundamentals, this book explores such key concepts as spatial processes, point patterns, and autocorrelation in area data, as well as in continuous fields. Also addressed are methods for combining maps and performing

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Computationally intensive analysis. New chapters tackle mapping, geovisualization, and local statistics, including the Moran Scatterplot and Geographically Weighted Regression (GWR). An appendix provides a primer on linear algebra using matrices. Complete with chapter objectives, summaries, "thought exercises," explanatory diagrams, and a chapter-by-chapter bibliography, Geographic Information Analysis is a practical book for students, as well as a valuable resource for researchers and professionals in the industry.

Big Data collected by customer-facing

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Organisations – such as smartphone logs, store loyalty card transactions, smart travel tickets, social media posts, or smart energy meter readings – account for most of the data collected about citizens today. As a result, they are transforming the practice of social science. Consumer Big Data are distinct from conventional social science data not only in their volume, variety and velocity, but also in terms of their provenance and fitness for ever more research purposes. The contributors to this book, all from the Consumer Data Research Centre, provide a first consolidated statement of the enormous potential of

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Consumer data research in the academic, commercial and government sectors – and a timely appraisal of the ways in which consumer data challenge scientific orthodoxies. Praise for Consumer Data Research 'An insightful, state-of-the-art guide into the social and commercial value of applying geographical thinking to the study of consumer data.' Professor Richard Harris, University of Bristol 'An excellent guide to leveraging the value of academic research on valid data. Partnerships based around consumer data should be encouraged and supported by all and their outputs used to

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'better the way we manage the world we live in.' Bill Grimsey, retailer and author of The Vanishing Highstreet 'The use of data from everyday consumer transactions is a potential game-changer for understanding economic and social patterns and trends. This is an excellent overview of the field.' Dr. Tom Smith, Managing Director, Office for National Statistics Data Science Campus

This volume is designed to be a comprehensive resource on GIS for students, researchers and practitioners who are interested in asking spatial questions, assessing landscapes,

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building geodatabases and envisioning a world of integrated geospatial technologies.

This best-selling non-technical, reader-friendly introduction to GIS makes the complexity of this rapidly growing high-tech field accessible to beginners. It uses a “learn-by-seeing” approach that features clear, simple explanations, an abundance of illustrations and photos, and generic practice labs for use with any GIS software. What Is a GIS? GIS's Roots in Cartography. Maps as Numbers. Getting the Map into the Computer. What Is Where? Why Is It There?

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Making Maps with GIS. How to Pick a GIS. GIS in Action. The Future of GIS. For anyone interested in a hands-on introduction to Geographic Information Systems.

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