

Residential Location Choice Models And Applications Advances In Spatial Science

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Residential Location Choice Francesca Pagliara 2010-08-13

The Econometrics of Multi-dimensional Panels Laszlo Matyas 2017-07-26 This book presents the econometric foundations and applications of multi-dimensional panels, including modern methods of big data analysis. The last two decades or so, the use of panel data has become a standard in many areas of economic analysis. The available models formulations became more complex, the estimation and hypothesis testing methods more sophisticated. The interaction between economics and econometrics resulted in a huge publication output, deepening and widening immensely our knowledge and understanding in both. The traditional panel data, by nature, are two-dimensional. Lately, however, as part of the big data revolution, there has been a rapid emergence of three, four and even higher dimensional panel data sets. These have started to be used to study the flow of goods, capital, and services, but also some other economic phenomena that can be better understood in higher dimensions. Oddly, applications rushed ahead of theory in this field. This book is aimed at filling this widening gap. The first theoretical part of the volume is providing the econometric foundations to deal with these new high-dimensional panel data sets. It not only synthesizes our current knowledge, but mostly, presents new research results. The second empirical part of the book provides insight into the most relevant applications in this area. These chapters are a mixture of surveys and new results, always focusing on the econometric problems and feasible solutions.

A Practitioner's Guide to State and Local Population Projections Stanley K. Smith 2013-12-16 This book focuses on the methodology and analysis of state and local population projections. It describes the most commonly used data sources and application techniques for four types of projection methods: cohort-component, trend extrapolation, structural models, and microsimulation. It covers the components of population growth, sources of data, the formation of assumptions, the development of evaluation criteria, and the determinants of forecast accuracy. It considers the strengths and weaknesses of various projection methods and pays special attention to the unique problems that characterize small-area projections. The authors provide practical guidance to demographers, planners, market analysts, and others called on to construct state and local population projections. They use many examples and illustrations and present suggestions for dealing with special populations, unique circumstances, and inadequate or unreliable data. They describe techniques for controlling one set of projections to another, for interpolating between time points, for sub-dividing age groups, and for constructing projections of population-related variables (e.g., school enrollment, households). They discuss the role of judgment and the importance of the political context in which projections are made. They emphasize the "utility" of projections, or their usefulness for decision making in a world of competing demands and limited resources. This comprehensive book will provide readers with an understanding not only of the mechanics of the most commonly used population projection methods, but also of the many complex issues affecting their construction, interpretation, evaluation, and use.

Advanced Concepts for Intelligent Vision Systems Jacques Blanc-Talon 2006-09-15 This book constitutes the refereed proceedings of the 8th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2006, held in Antwerp, Belgium in September 2006. The 45 revised full papers and 65 revised poster papers presented were carefully reviewed and selected from around 242 submissions. The papers are organized in topical sections on noise reduction and restoration, segmentation, motion estimation and tracking, video processing and coding, camera calibration, image registration and stereo matching, biometrics and security, medical imaging, image retrieval and image understanding, as well as classification and recognition.

Advanced Urban Travel Demand Forecasting 1999 "This course attempts to communicate to travel modeling professionals some of the [travel demand forecasting] procedures developed by their colleagues around the U.S. and abroad, most of which have been implemented as part of an existing travel demand modeling system."--p.1-5

Modelling Land-Use Change Eric Koomen 2007-08-14 The use of land changes over time as both natural and man-made environments are influenced by the pressures associated with the processes of development. The demand for land for new residential housing has been a huge challenge for governments striving to protect greenfield sites across Europe in recent years, whilst regeneration has been a common response to the decline of manufacturing in the old industrial heartlands. The variety of forces that drive change in the use of land are extensive and complex, including spatial planning policies designed at local, regional, national and supra-national levels. In order to understand the mechanisms of change and the impact of policies, the formulation, calibration and testing of models is required. Land-use change models help us to understand the complexities and interdependencies of the components that constitute spatial systems and can provide valuable insights into possible land-use configurations in the future. Models of land-use change incorporate a vast amount of knowledge from a wide range of disciplines. Geography contributes to the understanding of land-use change whilst demography and economics help explain underlying trends. Model building relies heavily on mathematics and (geographical) information systems, but also includes many elements from the softer sciences, such as management studies and environmental science. This book offers a cross-sectional overview of current research progress that allows the construction of successful land-use models. The contributions range from methodology and calibration to actual applications in studies of recent policy implementation and evaluation. The contributors originate from academic and applied research institutes around the world and thus offer an interesting mix of theory and practice in different case study contexts. Several years have passed since John Stillwell and Henk Scholten published "Land Use Simulation for Europe" in 2001, and the subject has moved on since then. The current volume, "Modelling Land-use Change", is an indispensable guide for anyone interested in the state-of-the-art of land-use modelling, its background and its application. In summary, land-use change simulation modelling is a relatively new and dynamic field of study and this book provides a full overview of the topic, a wide range of applications (both geographically and thematically), a mix of theory and practice, a synthesis of recent research progress, and educational material for students and teachers.

Innovations in Travel Demand Modeling: Session summaries 2008

Bounded Rational Choice Behaviour Soora Rasouli 2015-01-30 The book is an attempt to stimulate development in travel behaviour analysis and provide a basic source of reference to the transportation research community. The aim of the book is to give centre stage to some recent innovative approaches to models of bounded rationality, both under conditions of certainty and uncertainty.

Handbook on Entropy, Complexity and Spatial Dynamics Reggiani, Aura 2021-12-14 This ground-breaking Handbook presents a state-of-the-art exploration of entropy, complexity and spatial dynamics from fundamental theoretical, empirical and methodological perspectives. It considers how foundational theories can contribute to new advances, including novel modeling and empirical insights at different sectoral, spatial and temporal scales.

Advances in Urban Ecology marina Alberti 2007-12-20 This groundbreaking work is an attempt at providing a conceptual framework to synthesize urban and ecological dynamics into a common framework. The greatest challenge for urban ecologists in the next few decades is to understand the role humans play in urban ecosystems. The development of an integrated urban ecological approach is crucial to advance ecological research and to help planners and managers solve complex urban environmental issues. This book is a major step forward.

Choice Modelling Stephane Hess 2010-01-15 Contains a selection of the best theoretical and applied papers from the inaugural International Choice Modelling Conference. The conference was organised by the Institute for Transport Studies at the University of Leeds and held in Harrogate, North Yorkshire on 30 March to 1 April 2009.

Household Choice and Urban Structure Paul A. Waddell 2018-08-10 Published in 1997. The aim of this book is to explore urban modelling traditions, identify key limitations and contributions and to develop a more general model within a discrete choice framework. The scope of the effort is on household choices regarding residential location, workplace and housing tenure. It is the first systematic effort to analyze the structure and sequence of the choices made by households regarding residential location and workplace. The implications for urban theory, model development and policy analysis are substantial.

Discrete Choice Modelling and Air Travel Demand Laurie A. Garrow 2016-05-23 In recent years, airline practitioners and academics have started to explore new ways to model airline passenger demand using discrete choice methods. This book provides an introduction to discrete choice models and uses extensive examples to illustrate how these models have been used in the airline industry. These examples span network planning, revenue management, and pricing applications. Numerous examples of fundamental logit modeling concepts are covered in the text, including probability calculations, value of time calculations, elasticity calculations, nested and non-nested likelihood ratio tests, etc. The core chapters of the book are written at a level appropriate for airline practitioners and graduate students with operations research or travel demand modeling backgrounds. Given the majority of discrete choice modeling advancements in transportation evolved from urban travel demand studies, the introduction first orients readers from different backgrounds by highlighting major distinctions between aviation and urban travel demand studies. This is followed by an in-depth treatment of two of the most common discrete choice models, namely the multinomial and nested logit models. More advanced discrete choice models are covered, including mixed logit models and generalized extreme value models that belong to the generalized nested logit class and/or the network generalized extreme value class. An emphasis is placed on highlighting open research questions associated with these models that will be of particular interest to operations research students. Practical modeling issues related to data and estimation software are also addressed, and an extensive modeling exercise focused on the interpretation and application of statistical tests used to guide the selection of a preferred model specification is included; the modeling exercise uses itinerary choice data from a major airline. The text concludes with a discussion of on-going customer modeling research in aviation. Discrete Choice Modelling and Air Travel Demand is enriched by a comprehensive set of technical appendices that will be of particular interest to advanced students of discrete choice modeling theory. The appendices also include detailed proofs of the multinomial and nested logit models and derivations of measures used to represent competition among alternatives, namely correlation, direct-elasticities, and cross-elasticities.

Transport decisions in an age of uncertainty E.J. Visser 2012-12-06 Proceedings of the 3rd World Conference on Transport Research, Rotterdam, The Netherlands, April 1977

Residential Location Choice Francesca Pagliara 2010-08-12 The effective planning of residential location choices is one of the great challenges of contemporary societies and requires forecasting capabilities and the consideration of complex interdependencies which can only be handled by complex computer models. This book presents a range of approaches used to model residential locations within the context of developing land-use and transport models. These approaches illustrate the range of choices that modellers have to make in order to represent residential choice behaviour. The models presented in this book represent the state-of-the-art and are valuable both as key building blocks for general urban models, and as representative examples of complexity science.

Advanced Methods for Modeling Markets Peter S. H. Leeflang 2017-08-29 This volume presents advanced techniques to modeling markets, with a wide spectrum of topics, including advanced individual demand models, time series analysis, state space models, spatial models, structural models, mediation, models that specify competition and diffusion models. It is intended as a follow-on and companion to Modeling Markets (2015), in which the authors presented the basics of modeling markets along the classical steps of the model building process: specification, data collection, estimation, validation and implementation. This volume builds on the concepts presented in Modeling Markets with an emphasis on advanced methods that are used to specify, estimate and validate marketing models, including structural equation models, partial least squares, mixture models, and hidden Markov models, as well as generalized methods of moments, Bayesian analysis, non/semi-parametric estimation and endogeneity issues. Specific attention is given to big data. The market environment is changing rapidly and constantly. Models that provide information about the sensitivity of market behavior to marketing activities such as advertising, pricing, promotions and distribution are now routinely used by managers for the identification of changes in marketing programs that can improve brand performance. In today's environment of information overload, the challenge is to make sense of the data that is being provided globally, in real time, from thousands of sources. Although marketing models are now widely accepted, the quality of the marketing decisions is critically dependent upon the quality of the models on which those decisions are based. This volume provides an authoritative and comprehensive review, with each chapter including: · an introduction to the method/methodology · a numerical example/application in marketing · references to other marketing applications · suggestions about software. Featuring contributions from top authors in the field, this volume will explore current and future aspects of modeling markets, providing relevant and timely research and techniques to scientists, researchers, students, academics and practitioners in marketing, management and economics.

Employment Location in Cities and Regions Francesca Pagliara 2012-11-06 The focus of this book is the modeling of the location of economic activities, measured in terms of employment, in land-use and transportation systems. These measures are key inputs to models at intra-urban scales of the flows of persons and goods for both urban and transport planning. The models described here are either components of comprehensive models or specialist studies. Economic activities can be defined in terms of jobs or private-sector firms and public service organisations. Different levels of aggregation are used both in terms of organisational and geographical dimensions. In the case of firms and public organizations, a distinction can be made between the organizations themselves and corresponding establishments. For urban simulation models, it is the location of establishments that is important. At the more coarse levels of aggregation that are usually used in comprehensive models, firms and organizations are aggregated into sectors.

Location, Transport and Land-Use Yupo Chan 2005-12-05 1. Theme and focus Few books are available to integrate the models for facilities siting, transportation, and land-use. Employing state-of-the-art quantitative-models and case-studies, this book would guide the siting of such facilities as transportation terminals, warehouses, nuclear power plants, military bases, landfills, emergency shelters, state parks, and industrial plants. The book also shows the use of statistical tools for forecasting and analyzing implications of land-use decisions. The idea is that la- use on a map is necessarily a consequence of individual, and often conflicting, siting decisions over time. Since facilities often develop to form a community, these decisions are interrelated spatially—i. e. , they need to be accessible to one another via the transportation system. It is our thesis that a common methodological procedure exists to analyze all these spatial-temporal constructs. While there are several monographs and texts on subjects related to this book's, this volume is unique in that it integrates existing practical and theoretical works on facility-location, transportation, and land-use. Instead of dealing with individual facility-location, transportation, or the resulting land-use pattern individually, it provides the underlying principles that are behind these types of models. Particularly of interest is the emphasis on counter-intuitive decisions that often escape our minds unless deliberate steps of analysis are taken. Oriented toward the fundamental principles of infrastructure management, the book transcends the traditional engineering and planning disciplines, where the main concerns are often exclusively either physical design, fiscal, socioeconomic or political considerations.

Developments in Chaos and Complexity Research Nicoletta Sala 2008 This book presents the latest leading-edge international research on artificial life, cellular automata, chaos theory, cognition, complexity theory, synchronisation, fractals, genetic algorithms, information

systems, metaphors, neural networks, non-linear dynamics, parallel computation and synergetics. The unifying feature of this research is the tie to chaos and complexity.

Handbook of Choice Modelling Stephane Hess 2014-08-29 The Handbook of Choice Modelling, composed of contributions from senior figures in the field, summarizes the essential analytical techniques and discusses the key current research issues. The book opens with Nobel Laureate Daniel McFadden calling for d

Quality of Life in Cities Alessandra Michelangeli 2015-03-27 In the last few decades, urban quality of life has received increasing interest from policy makers who aim to make cities better places to live. In addition to the aim of improving quality of life, sustainable and equitable development is also often included in the policy agendas of decision makers. This book aims to link quality of life to related issues such as sustainability, equity, and subjective well-being. While less than one-third of the world's population lived in cities in 1950, about two thirds of humanity is expected to live in urban areas by 2030. This dramatic increase in the number of people living in urban areas serves as the backdrop for this book's analysis of cities. This book will be useful to students and researchers in economics, architecture and urban planning, sociology and political sciences, as well as policy makers.

A Handbook of Transport Economics André de Palma 2011-01-01 'This Handbook is a stellar compilation of up-to-date knowledge about the important topics in transport economics. Authors include the very best in the field, and they cover the most important topics for today's research and policy applications. Individual chapters contain sound, readable, well referenced explanations of each topic's history and current status. I cannot think of a better place to start for anyone wanting to become current in the field or in any of its parts.' – Kenneth Small, University of California-Irvine, US Bringing together insights and perspectives from close to 70 of the world's leading experts in the field, this timely Handbook provides an up-to-date guide to the most recent and state-of-the-art advances in transport economics. The comprehensive coverage includes topics such as the relationship between transport and the spatial economy, recent advances in travel demand analysis, the external costs of transport, investment appraisal, pricing, equity issues, competition and regulation, the role of public-private partnerships and the development of policy in local bus services, rail, air and maritime transport. This Handbook is designed both for use on postgraduate and advanced undergraduate courses and as a reference for anyone working in the field. It also complements the textbook Principles of Transport Economics.

Advanced Econometrics Amemiya Takeshi 1985 The main features of this text are a thorough treatment of cross-section models—including qualitative response models, censored and truncated regression models, and Markov and duration models—and a rigorous presentation of large sample theory, classical least-squares and generalized least-squares theory, and nonlinear simultaneous equation models.

Handbook of Regional and Urban Economics P. Nijkamp 1986 This second volume of the Handbook presents professional surveys of all the important topics in urban economics. The first section contains 6 surveys on locational analysis, the second, 5 surveys of specific urban markets, and the third part presents 5 surveys of government policy issues. The book brings together exhaustive research by distinguished scholars from many countries. It is the only complete survey volume of urban economics and should serve as a reference volume to scholars and graduate students for many years. For more information on the Handbooks in Economics series, please see our home page on <http://www.elsevier.nl/locate/hes>--

Advances in Spatial Econometrics Luc Anselin 2013-03-09 World-renowned experts in spatial statistics and spatial econometrics present the latest advances in specification and estimation of spatial econometric models. This includes information on the development of tools and software, and various applications. The text introduces new tests and estimators for spatial regression models, including discrete choice and simultaneous equation models. The performance of techniques is demonstrated through simulation results and a wide array of applications related to economic growth, international trade, knowledge externalities, population-employment dynamics, urban crime, land use, and environmental issues. An exciting new text for academics with a theoretical interest in spatial statistics and econometrics, and for practitioners looking for modern and up-to-date techniques.

Advanced International Trade Robert C. Feenstra 2015-11-10 Trade is a cornerstone concept in economics worldwide. This updated second edition of the essential graduate textbook in international trade brings readers to the forefront of knowledge in the field and prepares students to undertake their own research. In Advanced International Trade, Robert Feenstra integrates the most current theoretical approaches with empirical evidence, and these materials are supplemented in each chapter by theoretical and empirical exercises. Feenstra explores a wealth of material, such as the Ricardian and Heckscher-Ohlin models, extensions to many goods and factors, and the role of tariffs, quotas, and other trade policies. He examines imperfect competition, offshoring, political economy, multinationals, endogenous growth, the gravity equation, and the organization of the firm in international trade. Feenstra also includes a new chapter on monopolistic competition with heterogeneous firms, with many applications of that model. In addition to known results, the book looks at some particularly important unpublished results by various authors. Two appendices draw on index numbers and discrete choice models to describe methods applicable to research problems in international trade. Completely revised with the latest developments and brand-new materials, Advanced International Trade is a classic textbook that will be used widely by students and practitioners of economics for a long time to come. Updated second edition of the essential graduate textbook Current approaches and a new chapter on monopolistic competition with heterogeneous firms Supplementary materials in each chapter Theoretical and empirical exercises Two appendices describe methods for international trade research

Die Berücksichtigung des Wohnwertmerkmals Lage in den Mietspiegeln der deutschen Großstädte Johannes Promann 2012-11 *Behavioural Research for Transport Policy* Brill Academic 1986-12 The efficiency of transport systems depends on their relevance to those using them. All too often, however, transport policies are implemented at great expense without due regard to the behaviour, and consequent needs, of transport users. Behavioural Research for Transport Policy will improve the lines of communication between behavioural researchers and policy makers. The papers presented at the 1985 International Conference on Travel Behaviour cover the wide range of factors which need to be taken into account when gauging the effect behaviour has on transport requirements and usage. Contributions discuss the variety and usefulness of different survey frameworks; the lifestyle factors affecting transport use, and the problems of cost effectiveness in both survey techniques and the implementation of transport policy.

Dynamic Disequilibrium Modeling: Theory and Applications William Arnold Barnett 1996-06-13 . The organizers of the ninth symposium, which produced the current proceedings volume, were Claude Hillinger at the University of Munich, Giancarlo Gandolfo at the University of Rome "La Sapienza," A. R. Bergstrom at the University of Essex, and P. C. B. Phillips at Yale University.

Transportation Systems Planning Konstadinos C. Goulias 2002-12-26 Transportation engineering and transportation planning are two sides of the same coin aiming at the design of an efficient infrastructure and service to meet the growing needs for accessibility and mobility. Many well-designed transport systems that meet these needs are based on a solid understanding of human behavior. Since transportation systems are the backbone connecting the vital parts of a city, in-depth understanding of human nature is essential to the planning, design, and operational analysis of transportation systems. With contributions by transportation experts from around the world, Transportation Systems Planning: Methods and Applications compiles engineering data and methods for solving problems in the planning, design, construction, and operation of various transportation modes into one source. It is the first methodological transportation planning reference that illustrates analytical simulation methods that depict human behavior in a realistic way, and many of its chapters emphasize newly developed and previously unpublished simulation methods. The handbook demonstrates how urban and regional planning, geography, demography, economics, sociology, ecology, psychology, business, operations management, and engineering come together to help us plan for better futures that are human-centered. The text reviews projects from an initial problem statement to final policy action and associated decision-making and examines policies at all levels of government, from the city to the national levels. Unlike many other handbooks which are encyclopedic reviews, Transportation Systems Planning extends far beyond modeling in engineering and economics to present a truly transdisciplinary approach to transportation systems planning.

Land-Use Modelling in Planning Practice Eric Koomen 2011-08-25 This book provides an overview of recent developments and applications of the Land Use Scanner model, which has been used in spatial planning for well over a decade. Internationally recognized as among the best of its kind, this versatile model can be applied at a national level for trend extrapolation, scenario studies and optimization, yet can also be employed in a smaller-scale regional context, as demonstrated by the assortment of regional case studies included in the book. Alongside these practical examples from the Netherlands, readers will find discussion of more theoretical aspects of land-use models as well as an assessment of various studies that aim to develop the Land-Use Scanner model further. Spanning the divide between the abstractions of land-use modelling and the imperatives of policy making, this is a cutting-edge account of the way in which the Land-Use Scanner approach is able to interrogate a spectrum of issues that range from climate change to transportation efficiency. Aimed at planners, researchers and policy makers who need to stay abreast of the latest advances in land-use modelling techniques in the context of planning practice, the book guides the reader through the applications supported by current instrumentation. It affords the opportunity for a wide readership to benefit from the extensive and acknowledged expertise of Dutch planners, who have originated a host of much-used models.

Applications of Advanced Technology in Transportation American Society of Civil Engineers 2002 This collection contains 121 technical papers presented at the Seventh International Conference on Applications of Advanced Technology in Transportation, held in Boston, Massachusetts, August 5-7, 2002.

The SAGE Handbook of Housing Studies David F Clapham 2012-04-20 Cross-disciplinary and critical in its approach, The SAGE Handbook of Housing Studies is an elucidating look at the key issues within the field. It covers the study of housing retrospectively, but also analyses the future directions of research and theory, demonstrating how it can contribute to wider debates in the social sciences. A comprehensive introductory chapter is followed by four parts offering complete coverage of the area: Markets: examines the perception of housing markets, how they function in different contexts, and the importance of housing behaviour and neighbourhoods Approaches: looks at how other disciplines - economics, geography, and sociology - have informed the direction of housing studies Context: traces the interactions between housing studies and other aspects of society, providing context to debate housing through issues of space, social, welfare and the environment. Policy: is a multi-disciplinary and comprehensive take on the major policy issues and the causes and possible solutions of housing problems such as regeneration and homelessness. Edited by leading names in the field and including international contributions, the book is a stimulating, wide-ranging read that will be an invaluable resource for academics and researchers in geography, urban studies, sociology, social policy, economics and politics.

Advances in Sustainable Construction Materials Sabyasachi Biswas 2021-04-10 This book presents select proceedings of National Conference on Advances in Sustainable Construction Materials (ASCM 2020) and examines a range of durable, energy-efficient, and next-generation construction materials produced from industrial wastes and by-products. The topics covered include sustainable materials and construction, innovations in recycling concrete, green buildings and innovative structures, utilization of waste materials in construction, geopolymer concrete, self-compacting concrete by using industrial waste materials, nanotechnology and sustainability of concrete, environmental sustainability and development, recycling solid wastes as road construction materials, emerging sustainable practices in highway pavements construction, plastic roads, pavement analysis and design, application of geosynthetics for ground improvement, sustainability in offshore geotechnics, green tunnel construction technology and application, ground improvement techniques and municipal solid waste landfill. Given the scope of contents, the book will be useful for researchers and professionals working in the field of civil engineering and especially sustainable structures and green buildings.

Handbook of Developments in Consumer Behaviour Victoria Wells 2012-01-01 This Handbook examines the area of consumer behaviour from the perspective of current developments and developing areas for the discipline, to new opportunities that comprehend the nature of consumer choice and its relationship to marketing. Consumer research incorporates perspectives from a spectrum of long-established sciences: psychology, economics and sociology. This Handbook strives to include this multitude of sources of thought, adding geography, neuroscience, ethics and behavioural ecology to this list. Encompassing scholars with a passion for researching consumers, this Handbook highlights important developments in consumer behaviour research, including consumer culture, impulsivity and compulsiveness, ethics and behavioural ecology. It examines evolutionary and neuroscience perspectives as well as consumer choice. Undergraduate and postgraduate students and researchers in marketing with interests in consumer behaviour will find this enriching resource invaluable.

Journal of Transportation and Statistics 2005

Computational Intelligence, Theory and Applications Bernd Reusch 2006-09-09 This book constitutes the refereed proceedings of the 9th Dortmund Fuzzy Days, Dortmund, Germany, 2006. This conference has established itself as an international forum for the discussion of new results in the field of Computational Intelligence. The papers presented here, all thoroughly reviewed, are devoted to foundational and practical issues in fuzzy systems, neural networks, evolutionary algorithms, and machine learning and thus cover the whole range of computational intelligence.

Progress in Spatial Analysis Antonio Páez 2009-10-30 Space is increasingly recognized as a legitimate factor that influences many processes and conceptual frameworks, including notions of spatial coherence and spatial heterogeneity that have been demonstrated to provide substance to both theory and explanation. The potential and relevance of spatial analysis is increasingly understood by an expanding sphere of cogent disciplines that have adopted the tools of spatial analysis. This book brings together major new developments in spatial analysis techniques, including spatial statistics, econometrics, and spatial visualization, and applications to fields such as regional studies, transportation and land use, political and economic geography, (population and health). Establishing connections to existing and emerging lines of research, the book also serves as a survey of the field of spatial analysis and its links with related areas.

GeoComputational Analysis and Modeling of Regional Systems Jean-Claude Thill 2017-07-28 The contributed volume collects cutting-edge research in GeoComputational Analysis of Regional Systems. The contributions emphasize methodological innovations or substantive breakthroughs on many facets of the socio-economic and environmental reality of regional contexts.

Behavioural Travel Modelling David A. Hensher 2021-05-12 Originally published in 1979, this study deals on a fully comprehensive level with both passenger and freight travel. The 40 chapters deal with an extensive range of related topics, including equilibrium modelling, theoretical and conceptual developments in demand modelling, goods movement and forecasting and policy. It outlines approaches to understanding travel behaviour, which move beyond the individual choice theory towards a broader consideration of activities.