

Spatial Interaction Models

- Modelling the flows from specific origin(s) to destination(s)
 - Commuting to work
 - Shopping at retail centres
 - *Exploring urban retail phase transitions* (Dearden & Wilson)
 - NHS G.P. Provision
 - Summer holidays



Spatial Interaction Modelling

Cornelis P. Bartels



Spatial Interaction Modelling:

Gravity and Spatial Interaction Models Kingsley E. Haynes, A. Stewart Fotheringham, 1984-07 Haynes and Fotheringham provide an introduction to gravity and spatial interaction models which are extensively applied in forecasting. They trace the different applications of the gravity model to market area analysis, developing real life examples of the use of these models: planning a new service, defining retail shopping boundaries, forecasting migration and voting patterns, examining university enrollment by area, determining the optimal size of a shopping complex and locating a facility for best results. **Spatial Interaction Modelling** John R. Roy, 2004-01-15 In this book the author's strong commitment to the multi-disciplinary field of regional science emerges to provide a unifying framework between spatial modelling traditions from quantitative geography and those from spatial economics whereby each is enhanced. Starting with a detailed discussion of each field illustrated with numerical examples, the two traditions are brought together by either making the economic models probabilistic or transforming the objectives of the geographic models to reflect both utility theory and production theory. The ideas are applied to develop urban models of activity analysis, face to face contacts and housing supply as well as regional models in the areas of input output analysis, imperfect competition and interregional migration. *Spatial Interaction Models: Formulations and Applications* A. Fotheringham, Morton E. O'Kelly, 1989 **Gravity Models of Spatial Interaction Behavior** Ashish Sen, Tony E. Smith, 2012-12-06 Gravity models describe and hence help predict spatial flows of commuters, air travelers, migrants, commodities and even messages. They are one of the oldest and most widely used of all social science models. This book presents an up to date consistent and unified approach to the theory, methods and application of the gravity model which spans from the axiomatic foundations of such models all the way to practical hints for their use. I have found no better general method for use in applied research dealing with spatial interaction. It is against this background that the present book by Sen and Smith is most welcomed. Walter Isard **Gravity and Spatial Interaction Models** Kingsley E. Haynes, A. Stewart Fotheringham, 1984 Haynes and Fotheringham provide a comprehensive introduction to the four basic forms of gravity models. Gravity and spatial interaction extensively applied in forecasting has provided a major contribution to social science literature. The authors trace the different applications of the gravity model to market area analysis including determining the boundaries of market areas, determining the demand for goods or services and examining problems of operating the retail model. Six fully developed real life examples of the use of these models are presented: planning a new service, defining retail shopping boundaries, forecasting migration and voting patterns, examining university enrollment by area, determining the optimal size of a shopping complex and locating a facility to maximize custom. The discussion is kept at an elementary mathematical level and is aimed primarily at those unacquainted with the finer workings of gravity and spatial interaction models. **Spatial Econometric Interaction Modelling** Roberto Patuelli, Giuseppe Arbia, 2016-07-25 This contributed volume applies spatial and space time econometric methods to spatial interaction modeling. The first part of the

book addresses general cutting edge methodological questions in spatial econometric interaction modeling which concern aspects such as coefficient interpretation constrained estimation and scale effects The second part deals with technical solutions to particular estimation issues such as intraregional flows Bayesian PPML and VAR estimation The final part presents a number of empirical applications ranging from interregional tourism competition and domestic trade to space time migration modeling and residential relocation

Distance Decay Models in Spatial Interactions Peter John Taylor,1975

Modelling Spatial Autocorrelation in Spatial Interaction Data Manfred M. Fischer,2008 Spatial interaction models of the gravity type are widely used to model origin destination flows They draw attention to three types of variables to explain variation in spatial interactions across geographic space variables that characterise an origin region of a flow variables that characterise a destination region of a flow and finally variables that measure the separation between origin and destination regions This paper outlines and compares two approaches the spatial econometric and the eigenfunction based spatial filtering approach to deal with the issue of spatial autocorrelation among flow residuals An example using patent citation data that capture knowledge flows across 112 European regions serves to illustrate the application and the comparison of the two approaches

Spatial Interaction Models Lina Mallozzi,Egidio D'Amato,Panos M. Pardalos,2017-04-04

Facility location theory develops the idea of locating one or more facilities by optimizing suitable criteria such as minimizing transportation cost or capturing the largest market share The contributions in this book focus an approach to facility location theory through game theoretical tools highlighting situations where a location decision is faced by several decision makers and leading to a game theoretical framework in non cooperative and cooperative methods Models and methods regarding the facility location via game theory are explored and applications are illustrated through economics engineering and physics Mathematicians engineers economists and computer scientists working in theory applications and computational aspects of facility location problems using game theory will find this book useful

Spatial Interaction Modelling Systems

Openshaw, **Gravity and Spatial Interaction Models** Kingsley E. Haynes,1988 *Land Use-Transport Interaction Models* Rubén Cordera,Ángel Ibeas,Luigi dell'Olio,Borja Alonso,2017-11-15 Transport and the spatial location of population and activities have been important themes of study in engineering social sciences and urban and regional planning for many decades However an integrated approach to the modelling of transport and land use has been rarely made and common practice has been to model both phenomena independently This book presents an introduction to the modelling of land use and transport interaction LUTI with a theoretical basis and a presentation of the broad state of the art It also sets out the steps for building an operational LUTI model to provide a concrete application The authors bring extensive experience in this cross disciplinary field primarily for an academic audience and for professionals seeking a thorough introduction

Some Stages in Spatial Interaction Modelling Cornelis P. Bartels,1976

Modelling Land-Use Change Eric Koomen,John

Stillwell,Aldrik Bakema,Henk J. Scholten,2007-08-08 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 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 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 *Spatial Interaction Models and the Location Allocation Model. [Working Paper No.240].* J. Beaumont, **GeoComputational Modelling** Manfred M. Fischer, Yee Leung, 2013-03-09 Geocomputation may be viewed as the application of a computational science paradigm to study a wide range of problems in geographical systems contexts This volume presents a clear comprehensive and thoroughly state of the art overview of current research written by leading figures in the field It provides important insights into this new and rapidly developing field and attempts to establish the principles and to develop techniques for solving real world problems in a wide array of application domains with a catalyst to greater understanding of what geocomputation is and what it entails The broad coverage makes it invaluable reading for researchers and professionals in geography environmental and economic sciences as well as for graduate students of spatial science and computer science

Modelling Geographical Systems B. Boots, A. Okabe, R. Thomas, 2013-11-11 Within the realm of quantitative geography systems modelling is specifically concerned with understanding those relationships that influence the attributes of phenomena located in space and time The intention is to replicate the main processes influencing a system's behaviour and thereby assist its management through a capability to estimate future change Over the last few decades one of the major institutional initiatives for promoting such research has been provided by specialised Study Groups and Commissions established by the International Geographical Union IGU These scholarly networks have aimed to coordinate international research agendas for geographical systems modelling and their activities have been recorded in both edited volumes Fischer and Getis 1997 and special issues of learned journals Wilkinson and Boots 2000 Leung and Okabe 2001 Presently this facilitative task is the charge of the Commission on Modelling Geographical Systems CMGS appointed at the IGU Hague Congress in 1996 and chaired by Barry Boots 1996 2000 and Richard Thomas 2000 present Set against this background this book provides a perspective on the work of the CMGS from 1996 until the IGU Seoul Congress in August 2000 through a collection of papers first presented to our sessions at this event Moreover a number of Japanese delegates were attracted to this Asian venue and their contributions provide many new ideas concerning the implementation of systems analysis

Spatial Interaction Theory and Planning Models Anders Karlqvist, 1978 *Models in Urban Geography* Chiranji Singh

Yadav,1986

Spatial Interaction Model for Land Use Planning Maher Moheb Stino,1983

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