

# Spatial Data Configuration in Statistical Analysis of Regional Economic and Related Problems

by

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# Spatial Data Configuration In Statistical Analysis Of Regional Economic And Related Problems

**Lemonia Ragia, Robert Laurini, Jorge  
Gustavo Rocha**



## **Spatial Data Configuration In Statistical Analysis Of Regional Economic And Related Problems:**

*Spatial Data Configuration in Statistical Analysis of Regional Economic and Related Problems* Giuseppe Arbia, 2012-12-06  
Figure 1 1 Map of Great Britain at two different scale levels a Counties b Regions Figure 1 2 Two alternative aggregations of the Italian province in 32 larger areas 4 CHAPTER 1 d b Figure 1 3 Percentage of votes of the Communist Party in the 1987 Italian political elections a and percentage of population over 75 years b in 1981 Italian Census in 32 polling districts The polling districts with values above the average are shaded Figure 1 4 First order neighbours a and second order neighbours b of a reference area INTRODUCTION 5 While there are several other problems relating to the analysis of areal data the problem of estimating a spatial correlation merits special attention The concept of the correlogram has been borrowed in the spatial literature from the time series analysis Figure 1 4 a shows the first order neighbours of a reference area while Figure 1 4 b displays the second order neighbours of the same area Higher order neighbours can be defined in a similar fashion While it is clear that the dependence is strongest between immediate neighbouring areas a certain degree of dependence may be present among higher order neighbours This has been shown to be an alternative way of looking at the scale problem Cliff and Ord 1981 p 123 However unlike the case of a time series where each observation depends only on past observations here dependence extends in all directions

**Handbook on Entropy, Complexity and Spatial Dynamics** Reggiani, Aura, Schintler, Laurie A., Czamanski, Danny, Patuelli, Roberto, 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 [The SAGE Handbook of Spatial Analysis](#) A Stewart Fotheringham, Peter A Rogerson, 2008-12-22 The widespread use of Geographical Information Systems GIS has significantly increased the demand for knowledge about spatial analytical techniques across a range of disciplines As growing numbers of researchers realise they are dealing with spatial data the demand for specialised statistical and mathematical methods designed to deal with spatial data is undergoing a rapid increase Responding to this demand The Handbook of Spatial Analysis is a comprehensive and authoritative discussion of issues and techniques in the field of Spatial Data Analysis Its principal focus is on why the analysis of spatial data needs separate treatment the main areas of spatial analysis the key debates within spatial analysis examples of the application of various spatial analytical techniques problems in spatial analysis areas for future research Aimed at an international audience of academics The Handbook of Spatial Analysis will also prove essential to graduate level students and researchers in government agencies and the private sector

**Econometric Advances in Spatial Modelling and Methodology** Daniel A. Griffith, C. Amrhein, Jean-Marie Huriot, 2013-04-17 The purpose of models is not to fit the data but to sharpen the questions S Karlin 11th R A Fisher Memorial Lecture Royal Society 20 April 1983 We are proud to offer this volume in honour of the remarkable career of the

Father of Spatial Econometrics Professor Jean Paelinck presently of the Tinbergen Institute Rotterdam Not one to model solely for the sake of modelling the above quotation nicely captures Professor Paelinck's unceasing quest for the best question for which an answer is needed His FLEUR model has sharpened many spatial economics and spatial econometrics questions Jean Paelinck arguably is the founder of modern spatial econometrics penning the seminal introductory monograph on this topic Spatial Econometrics with Klaassen in 1979 In the General Address to the Dutch Statistical Association on May 2 1974 in Tilburg he coined the term spatial econometrics to designate a growing body of the regional science literature that dealt primarily with estimation and testing problems encountered in the implementation of multiregional econometric models Anselin 1988 p 7 he already had introduced this idea in his introductory report to the 1966 Annual Meeting of the Association de Science Regionale de Langue Fran aise

**The Impact of European Integration on Regional Structural Change and Cohesion** Christiane Krieger-Boden, Edgar Morgenroth, George Petrakos, 2008-03-31 Edited by three European editors and spanning across Europe this excellent study focuses on the effects of the European integration process on the inter regional division of labour in both western and Eastern European countries Using extensive empirical analysis of the changes of regional specialization over a period of two decades observing its

Henri Theil's Contributions to Economics and Econometrics B. Raj, J. Koerts, 2012-12-06

PREFACE TO THE COLLECTION PREAMBLE The editors are pleased to present a selection of Henri Theil's contributions to economics and econometrics in three volumes In Volume I we have provided an overview of Theil's contributions a brief biography an annotated bibliography of his research and a selection of published and unpublished articles and chapters in books dealing with topics in econometrics Volume II contains Theil's contributions to demand analysis and information theory Volume III includes Theil's contributions in economic policy and forecasting and management science The selection of articles is intended to provide examples of Theil's many seminal and pathbreaking contributions to economics in such areas as econometrics statistics demand analysis information theory economic policy analysis aggregation theory forecasting index numbers management science sociology operations research higher education and much more The collection is also intended to serve as a tribute to him on the occasion of his 68th birthday These three volumes also highlight some of Theil's contributions and service to the profession as a leader advisor administrator teacher and researcher Theil's contributions which encompass many disciplines have been extensively cited both in scientific and professional journals These citations often place Theil among 10 researchers ranked according to number of times cited in the world in various the top disciplines

The Econometrics of Panel Data László Mátyás, Patrick Sevestre, 2013-12-01 The aim of this volume is to provide a general overview of the econometrics of panel data both from a theoretical and from an applied viewpoint Since the pioneering papers by Kuh 1959 Mundlak 1961 Hoch 1962 and Balestra and Nerlove 1966 the pooling of cross section and time series data has become an increasingly popular way of quantifying economic relationships Each series provides information lacking in the other so a combination of both leads to more accurate and reliable results

than would be achievable by one type of series alone Over the last 30 years much work has been done investigation of the properties of the applied estimators and test statistics analysis of dynamic models and the effects of eventual measurement errors etc These are just some of the problems addressed by this work In addition some specific difficulties associated with the use of panel data such as attrition heterogeneity selectivity bias pseudo panels etc have also been explored The first objective of this book which takes up Parts I and II is to give as complete and up to date a presentation of these theoretical developments as possible Part I is concerned with classical linear models and their extensions Part II deals with nonlinear models and related issues logit and probit models latent variable models incomplete panels and selectivity bias and point processes

**The Econometrics of Panel Data** László Mátyás, Patrick Sevestre, 2008-04-06 This restructured updated Third Edition provides a general overview of the econometrics of panel data from both theoretical and applied viewpoints Readers discover how econometric tools are used to study organizational and household behaviors as well as other macroeconomic phenomena such as economic growth The book contains sixteen entirely new chapters all other chapters have been revised to account for recent developments With contributions from well known specialists in the field this handbook is a standard reference for all those involved in the use of panel data in econometrics

**A System-Wide Analysis of International Consumption Patterns** S. Selvanathan, 2012-12-06 The modern system wide approach to applied demand analysis emphasizes a unity between theory and applications Its firm foundations in economic theory make it one of the most impressive areas of applied econometrics This book presents a large number of applications of recent innovations in the area The database used consist of about 18 annual observations for 10 commodities in 18 OECD countries more than 3 100 data points Such a large body of data should provide convincing evidence one way or the other about the validity of consumption theory A PREVIEW OF THE BOOK The overall importance of the analysis presented in the book can be seen from the following table which shows the significant contribution of the OECD to the world economy As can be seen the 24 member countries account for about 50 percent of world GDP in 1975 In this book we present an extensive analysis of the consumption patterns of the OECD countries

**Computational Economics and Econometrics** H. Amman, D.A. Belsley, L.F. Pau, 2012-12-06 The field of Computational Economics is a fast growing area Due to the limitations in analytical modeling more and more researchers apply numerical methods as a means of problem solving In turn these quantitative results can be used to make qualitative statements This volume of the Advanced Series in Theoretical and Applied and Econometrics comprises a selected number of papers in the field of computational economics presented at the Annual Meeting of the Society Economic Dynamics and Control held in Minneapolis June 1990 The volume covers ten papers dealing with computational issues in Econometrics Economics and Optimization The first five papers in these proceedings are dedicated to numerical issues in econometric estimation The following three papers are concerned with computational issues in model solving and optimization The last two papers highlight some numerical techniques for solving micro models We are

sure that Computational Economics will become an important new trend in Economics in the coming decade Hopefully this volume can be one of the first contributions highlighting this new trend The Editors H M Amman et al eds Computational Economics and Econometrics vii 1992 Kluwer Academic Publishers PART ONE ECONOMETRICS LIKELIHOOD EVALUATION FOR DYNAMIC LATENT VARIABLES 1 MODELS DAVID F HENDRY Nuffield College Oxford U K and JEAN FRANCOIS

RICHARD ISDS Pittsburgh University Pittsburgh PA U S A **Henri Theil's Contributions to Economics and**

**Econometrics** Henri Theil, 1992 **Economics in Theory and Practice: An Eclectic Approach** L.R. Klein, Jaime

Marquez, 2012-12-06 Lawrence Klein University of Pennsylvania Jaime Marquez Federal Reserve Board I All examination of the economics literature over the last twenty years reveals a marked tendency towards polarisation On the one hand there has been a propensity to develop theoretical models which have little connection with either empirical verification or problems requiring immediate attention On the other hand empirical analyses are generally typified by testing for its own sake with limited examination of the implications of the results As a result the number of papers confronting theory with facts towards the solution of economic problems has been on the decline for years To fill this growing gap in the literature we have invited a number of authors to write papers using both theoretical and empirical techniques to address current issues of interest to the profession at large the US trade deficit and the global implications of policies that attempt to reduce it the international ramifications of the debt crisis the international oil market and its implications for the US oil industry and the development of new econometric techniques In addressing these issues each author has approached the subject matter from an eclectic standpoint that is avoiding strict adherence to a given doctrine Income Elasticity and Economic Development M. Ohidul Haque, 2005-10-24 Income Elasticity and Economic Development Methods and Applications is mainly concerned with methods of estimating income elasticity This field is connected with economic development that can be achieved by reducing income inequality This is highly relevant in today's world where the gap between rich and poor is widening with the growth of economic development Income Elasticity and Economic Development Methods and Applications provides a good example in showing how to calculate income elasticity using a number of methods from widely available grouped data Some of the techniques presented here can be used in a wide range of policy areas in all developed developing and under developed countries Policy analysts economists business analysts and market researchers will find this book very useful

**The Measurement of Economic Relationships** Peter Tryfos, 2013-03-09 A stranger in academia cannot but be impressed by the apparent uniformity and precision of the methodology currently applied to the measurement of economic relationships In scores of journal articles and other studies a theoretical argument is typically presented to justify the position that a certain variable is related to certain other possibly causal variables Regression or a related method is applied to a set of observations on these variables and the conclusion often emerges that the causal variables are indeed significant at a certain level thereby lending support to the theoretical argument an argument presumably formulated independently of

the observations A variable may be declared significant and few doubt that this does not mean important at say the 0.05 level but not the 0.01 The effects of the variables are calculated to many significant digits and are often accompanied by intervals and forecasts of not quite obvious meaning but certainly of reassuring confidence The uniformity is also evident in the many mathematically advanced text books of statistics and econometrics and in their less rigorous introductory versions for students in economics or business It is reflected in the tools of the profession computer programs from the generations addressed to the incidental researcher to the dedicated and sophisticated programs used by the experts display the same terms and implement the same methodology In short there appears no visible alternative to the established methodology and no sign of reservations concerning its validity

**Geographical Information Systems Theory, Applications and Management** Lemonia Ragia, Robert Laurini, Jorge Gustavo Rocha, 2018-12-29 This book constitutes the thoroughly refereed proceedings of the Third International Conference on Geographical Information Theory Application and Management GISTAM 2017 held in Porto Portugal in April 2017 The 11 full papers presented were carefully reviewed and selected from 70 submissions The papers are centered around photogrammetry spatio temporal data acquisition spectroscopy and spectroradiometry hyperspectral imaging Earth observation and satellite data computational geometry web applications geographic information retrieval urban and regional planning

**The Economic Geography of Innovation** Karen R. Polenske, 2007-04-12 This critical addition to the growing literature on innovation contains extensive analyses of the institutional and spatial aspects of innovation Written by leading scholars in the fields of economic geography innovation studies planning and technology policy the fourteen chapters cover conceptual and measurement issues in innovation and relevant technology policies The contributors examine how different institutional factors facilitate or hamper the flows of information and knowledge within and across firms regions and nations In particular they provide insights into the roles of important institutions such as gender and culture which are often neglected in the innovation literature and demonstrate the key role which geography plays in the innovation process Institutions and policy measures which support entrepreneurship and cluster development are also discussed The result is a comparative picture of the institutional factors underlying innovation systems across the globe

Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases Dongmei Chen, Bernard Moulin, Jianhong Wu, 2014-12-01 Features modern research and methodology on the spread of infectious diseases and showcases a broad range of multi disciplinary and state of the art techniques on geo simulation geo visualization remote sensing metapopulation modeling cloud computing and pattern analysis Given the ongoing risk of infectious diseases worldwide it is crucial to develop appropriate analysis methods models and tools to assess and predict the spread of disease and evaluate the risk Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases features mathematical and spatial modeling approaches that integrate applications from various fields such as geo computation and simulation spatial analytics mathematics statistics epidemiology and health policy In addition the book

captures the latest advances in the use of geographic information system GIS global positioning system GPS and other location based technologies in the spatial and temporal study of infectious diseases Highlighting the current practices and methodology via various infectious disease studies Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases features Approaches to better use infectious disease data collected from various sources for analysis and modeling purposes Examples of disease spreading dynamics including West Nile virus bird flu Lyme disease pandemic influenza H1N1 and schistosomiasis Modern techniques such as Smartphone use in spatio temporal usage data cloud computing enabled cluster detection and communicable disease geo simulation based on human mobility An overview of different mathematical statistical spatial modeling and geo simulation techniques Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases is an excellent resource for researchers and scientists who use manage or analyze infectious disease data need to learn various traditional and advanced analytical methods and modeling techniques and become aware of different issues and challenges related to infectious disease modeling and simulation The book is also a useful textbook and or supplement for upper undergraduate and graduate level courses in bioinformatics biostatistics public health and policy and epidemiology

Monetary Policy Y. Barroux, 2012-12-06 Patrick Artus and Yves Barroux The Applied Econometric Association organised an international conference on Monetary and Financial Models in Geneva in January 1987 The purpose of this book is to make available to the public a choice of the papers that were presented at the conference The selected papers all deal with the setting of monetary targets and the effects of monetary policy on the economy as well as with the analysis of the financial behaviours of economic agents Other papers presented at the same conference but dealing with the external aspects of monetary policy exchange rate policy international coordination of economic policies international transmission of business cycles are the matter of a distinct publication The papers put together to make up this book either are theoretical research contributions or consist of applied statistical or econometric work It seemed to be more logical to start with the more theoretical papers The topics tackled in the first two parts of the book have in common the fact that they appeared just recently in the field of economic research and deal with the analysis of the behaviour of Central Banks They analyse this behaviour so as to be able to exhibit its major determinants as well as revealed preferences of Central Banks this topic comes under the caption optimal monetary policy and reaction function of the monetary authorities

**Studies in Global Econometrics** H. Theil, 2007-07-11 Studies in Global Econometrics is a collection of essays on the use of cross country data based on purchasing power parities The two major applications are the development over time of per capital gross domestic products including that of their inequalities among countries and regions and the fitting of cross country demand equations for broad groups of consumer goods The introductory chapter provides highlights of the author's work as relating to these developments One of the main topics of the work is a system of demand equations for broad groups of consumer goods fitted by means of cross country data These data are from the International Comparison Program which



provides PPP based figures for a number of years and countries. Similar data are used for the measurement of the dispersion of national per capita incomes between and within seven geographic regions.

**The Econometrics of Demand Systems**

David L. Edgerton, Bengt Assarsson, Anders Hummelose, Ilkka P. Laurila, Kyrre Rickertsen, Per Halvor Vale, 2012-12-06

This book contains some of the results from the research project Demand for Food in the Nordic Countries which was initiated in 1988 by Professor Olof Bolin of the Agricultural University in Ultuna Sweden and by Professor Karl Iohan Weckman of the University of Helsinki Finland. A pilot study was carried out by Bengt Assarsson which in 1989 led to a successful application for a research grant from the NKJ The Nordic Contact Body for Agricultural Research through the national research councils for agricultural research in Denmark Finland Norway and Sweden. We are very grateful to Olof Bolin and Karl Iohan Weckman without whom this project would not have come about and to the national research councils in the Nordic countries for the generous financial support we have received for this project. We have received comments and suggestions from many colleagues and this has improved our work substantially. At the start of the project a reference group was formed consisting of Professor Olof Bolin Professor Anders Klevmarken Agr lie Gert Aage Nielsen Professor Karl Iohan Weckman and Cando oecon Per Halvor Vale. Gert Aage Nielsen left the group early in the project for a position in Landbanken and was replaced by Professor Lars Otto while Per Halvor Vale soon joined the research staff. The reference group has given us useful suggestions and encouraged us in our work. We are very grateful to them.

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