

A. Reggiani  
Editor

# Spatial Economic Science

New Frontiers  
in Theory  
and Methodology

ADVANCES IN  
SPATIAL SCIENCE



Springer

# Spatial Economic Science New Frontiers In Theory And Methodology

**Zhenhua Chen, William M. Bowen, Dale  
Whittington**



## **Spatial Economic Science New Frontiers In Theory And Methodology:**

**Spatial Economic Science** Aura Reggiani, 2012-12-06 With the dawn of the twenty first century comes the awareness that current rapid political economic social and technological transformations will affect our of living by producing new forms of information communications common way market work style and leisure In this context human behaviour will certainly change its fixed parameters It is likely that the relationships between internal structures and external influences between individual components and collective behaviour as well as between multi scale networks and interrelated dynamics will show spatio temporal patterns which will be difficult to predict by means of our usual tools As a consequence academic research is increasingly being required to play an active role in addressing new ways of understanding and forecasting the sets of interacting structures ranging from the technical to the organizational and from the social to the economic and political levels while at the same time incorporating concerns about the new economy environment society information and technology It is now evident that social science especially spatial and economic scienc needs innovative paths together with continuous cross fertilization among the many disciplines involved In order to investigate these intriguing perspectives we seem to have embarked on an era of methodological reflections rather than developing strong theoretical foundations This volume aims to provide an overview of these new insights and frontiers for theoretical methodological studies and research applications in the space economy *Handbook of Research Methods and Applications in Economic Geography* Charlie Karlsson, Martin Andersson, Therese Norman, 2015-02-27 The main purpose of this Handbook is to provide overviews and assessments of the state of the art regarding research methods approaches and applications central to economic geography The chapters are written by distinguished researchers from a variet Spatial Dynamics, Networks and Modelling Reggiani, A. Nijkamp, P., 2006 the editors have done an excellent job in bringing together a comprehensive collection of cutting edge research findings on network theory Sierdjan Koster European Spatial Research and Policy *Innovation System Frontiers* Brian Wixted, 2009-06-12 Recent economic transformations in the world economy are progressing in two divergent directions international production fragmentation and industrial agglomeration Based on extensive data analysis and using models of interdependencies between key economies this book analyses innovation systems that cross national borders It is shown that technological complexity is an important factor in the formation of highly specific production networks and why for a number of production systems fragmentation and clustering are two sides of the same coin By outlining the picture of a world economy structured around networks of clusters and joined together through systems of linkages of components people and knowledge flows the author helps to promote a better understanding of recent economic transformations Knowledge, Complexity and Innovation Systems Manfred M. Fischer, Josef Fröhlich, 2013-11-27 In recent years there has been growing scientific interest in the triangular relationship between knowledge complexity and innovation systems The concept of innovation systems carries the idea that innovations do not originate as isolated discrete phenomena but are generated

through the interaction of a number of actors or agents This set of actors and interactions possess certain specific characteristics that tend to remain over time Such characteristics are also shared by national regional sectoral and technological interaction systems They can all be represented as sets of institutional actors and interactions whose ultimate goal is the production and diffusion of knowledge The major theoretical and policy problem posed by these systems is that knowledge is generated not only by individuals and organisations but also by the often complex pattern of interaction between them To understand how organisations create new products new production techniques and new organisational forms is important An even more fundamental need is to understand how organisations create new knowledge if this knowledge creation lies in the mobilisation and conversion of tacit knowledge Although much has been written about the importance of knowledge in management little attention has been paid to how knowledge is created and how the knowledge creation process is managed The third component of the research triangle concerns complexity      **Development Studies**

**in Regional Science** Zhenhua Chen, William M. Bowen, Dale Whittington, 2020-02-21 This book examines major policy and planning issues in development studies from the regional science perspective It investigates questions such as How are communities able to deal with uncertainties raised by conflicts technology and external shocks in the process of development How can nations achieve sustainable development in terms of resource allocation and management and How can developing countries improve their economic competitiveness while maintaining the objectives of equitable and coordinated growth among different regions using case studies that focus on different subfields like infrastructure environment data science sustainability and resilience The book is organized in three parts Part I clarifies fundamental issues regarding development studies and regional science in general while Part II includes several case studies that address development related opportunities and challenges with a focus on Asian countries Lastly Part III offers a global perspective and explores development experiences from countries throughout the world Featuring contributions by leading academics and practitioners working at various organizations linked to international development and including multidisciplinary analyses the book appeals to students who are interested in development studies and regional science It also offers planners and policymakers fresh insights into regional economic development      Spatial Analysis and GeoComputation Manfred M.

Fischer, 2006-11-22 This volume contains selected essays of Manfred M Fischer in the field of spatial analysis from the perspective of GeoComputation The volume is structured in four parts from broad issues in spatial analysis and the role of GIS to computational intelligence technologies such as neural networks The third part provides the theoretical framework required for adaptive pattern classifiers in remote sensing environments The final section outlines the latest in neural spatial interaction modeling      *Computational Science and Its Applications -- ICCSA 2013* Beniamino Murgante, Sanjay

Misra, Maurizio Carlini, Carmelo Maria Torre, Hong-Quang Nguyen, David Taniar, Bernady O. Apduhan, Osvaldo

Gervasi, 2013-06-22 The five volume set LNCS 7971 7975 constitutes the refereed proceedings of the 13th International

Conference on Computational Science and Its Applications ICCSA 2013 held in Ho Chi Minh City Vietnam in June 2013 The 248 revised papers presented in five tracks and 33 special sessions and workshops were carefully reviewed and selected The 46 papers included in the five general tracks are organized in the following topical sections computational methods algorithms and scientific applications high performance computing and networks geometric modeling graphics and visualization advanced and emerging applications and information systems and technologies The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality

**Selected Topics in Nonlinear Dynamics and Theoretical Electrical Engineering** Kyandoghere Kyamakya, Wolfgang A. Halang, Wolfgang Mathis, Jean Chamberlain Chedjou, Zhong Li, 2013-04-02 This book contains a collection of recent advanced contributions in the field of nonlinear dynamics and synchronization including selected applications in the area of theoretical electrical engineering The present book is divided into twenty one chapters grouped in five parts The first part focuses on theoretical issues related to chaos and synchronization and their potential applications in mechanics transportation communication and security The second part handles dynamic systems modelling and simulation with special applications to real physical systems and phenomena The third part discusses some fundamentals of electromagnetics EM and addresses the modelling and simulation in some real physical electromagnetic scenarios The fourth part mainly addresses stability concerns Finally the last part assembles some sample applications in the area of optimization data mining pattern recognition and image processing

**The Routledge Companion to Global Value Chains** Renu Agarwal, Christopher Bajada, Roy Green, Katrina Skellern, 2021-09-30 This Companion provides a review of global value chains GVCs and the megatrends that are shaping them and will continue to reshape them in deep set trajectories of change over the next few decades Megatrends herald both challenges and opportunities With the growing interest among business leaders and researchers in GVCs this is a reference work which fills a gap in current literature by focusing on the new features of GVCs including the shift of global purchasing power towards developing economies the significance of emerging technologies and data analytics the increasing tensions between globalisation and de globalisation and the role of micro multinationals start up entrepreneurs the public sector and middle markets in a fast changing global economy The early chapters are essentially intradisciplinary in character with the first seeking to explore some historical aspects of GVCs Subsequent chapters cover the theory and practice of operations and supply chain management emerging supply chain technologies and the impact of inter firm collaboration across sectors and economies The final chapters take a more interdisciplinary approach and examine topics at the interface of GVCs with the economy society culture and politics This comprehensive handbook provides a timely analysis of leading edge global megatrends and practices in one volume

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 resarchers and professionals in geography environmental and economic sciences as well as for graduate students of spatial science and computer science

**Methods and Models in Transport and Telecommunications** Aura Reggiani,Laurie A. Schintler,2006-03-30 One aspect of the new economy is a transition to a networked society and the emergence of a highly interconnected interdependent and complex system of networks to move people goods and information An example of this is the in creasing reliance of networked systems e g air transportation networks electric power grid maritime transport etc on telecommunications and information in frastructure Many of the networks that evolved today have an added complexity in that they have both a spatial structure i e they are located in physical space but also an a spatial dimension brought on largely by their dependence on infor mation technology They are also often just one component of a larger system of geographically integrated and overlapping networks operating at different spatial levels An understanding of these complexities is imperative for the design of plans and policies that can be used to optimize the efficiency performance and safety of transportation telecommunications and other networked systems In one sense technological advances along with economic forces that encourage the clustering of activities in space to reduce transaction costs have led to more efficient network structures At the same time the very properties that make these networks more ef ficient have also put them at a greater risk for becoming disconnected or signifi cantly disruptedwh en super connected nodes are removed either intentionally or through a targeted attack

**Fifty Years of Regional Science** Raymond Florax,David A. Plane,2013-04-17 This book contains the complete text of the special Golden Anniversary issue of the flagship journal of the Regional Science Association International RSAI Papers in Regional Science Volume 83 Number 1 as well as the full text of Walter Isard s Presidential Address The future near and far of regional science Professor Isard originally delivered the speech in a special plenary session of the fiftieth North American Meetings of the Regional Science Association International The session began with a ceremonial kickoff to the year long celebration of the multidisciplinary field s first 50 years At the ceremony held on the morning of Friday November 21 2004 at the DoubleTree Hotel in Philadelphia we presented Walter Isard the founder of our multidisciplinary field as well as Antoine Bailly the President of the Regional Science Association International and David Boyce the Association s Archivist with commemorative first copies of the anniversary issue This book entitled Fifty Years of Regional Science consists of a compendium of thought papers authored by a representative sampling of some of the field s leading scholars For the special journal issue we originally titled the collection The Brightest of Dawns

Spatial Interaction Modelling John R. Roy,2012-09-22 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 *Entrepreneurship and Regional Economic Development* Henri L. F. de Groot, Peter Nijkamp, Roger

Stough, 2004-01-01 Entrepreneurship had been high on the jobs growth and economic development agendas for many years and this edited book makes an important and timely contribution to the debate the book is nicely poised to bring together space innovation and economic growth linked together with entrepreneurship This book provides an excellent and worthwhile insight into many of the issues with many contributions that significantly add to our understanding of entrepreneurship and regional development Ronald W McQuaid Growth Change

**Growth Hormone And The Heart** Andrea Giustina, 2000-11-30 Growth Hormone and the Heart endeavors to bring together knowledge that has been accumulated in the area of GH and the heart from basic to clinical studies by research groups working on this topic throughout the world Lessons from different experimental models and from several human diseases acromegaly adult GH deficiency heart failure suggest to endocrinologists and cardiologists that GH may not only have a role in the physiology and pathophysiology of heart function but that GH itself may have a place in the treatment of primary heart diseases such as dilated cardiomyopathy or of cardiac complications of hypopituitarism Growth Hormone and the Heart will be a useful update of the research produced in the field of cardiovascular endocrinology The Editors also hope that this book will serve as the primary step in the recognition of the wide physiological and clinical significance of GH and heart interactions **Theories**

**of Endogenous Regional Growth** Börje Johansson, Charlie Karlsson, Roger R. Stough, 2012-12-06 During the last two decades a new growth theory has emerged often labelled endogenous economic growth The contributions in the book develop these advances into a theoretical framework for endogenous regional economic growth and explain the implications for regional economic policies in the perspective of the new century Endogenous growth models can reflect increasing returns and hence refer more adequately to empirical observations than earlier models and the models become policy relevant because in endogenous growth models policy matters Such policies comprise efforts to stimulate the growth of knowledge intensity of the labour supply and knowledge production in the form of R D **Transportation Security**

**Against Terrorism** M. Tahmisoglu, Ç. Özen, 2009-04-29 Even a cursory review of the numerous hijacking train and bus bombings can establish beyond doubt that transport systems are particularly vulnerable targets of terrorist attack To confront and seek remedies for this problem the Transportation Security against Terrorism Advanced Research Workshop

took place 05 06 May 2008 at the Merkez Officers Club conference venue in Ankara Although the papers in this edition which is an overview of the discussions held at the workshop present diverse and interdisciplinary views the need to better understand terrorism and its effects on transportation infrastructure emerges as a common view Due to increased globalization transportation networks are becoming more and more accessible to a growing group of people some with questionable intentions Transportation systems are also becoming more and more interlinked with one another requiring for states to cooperate both during crises and before emergency situations emerge The editors hope that this book will lay the groundwork for a theoretical and practical understanding of the issues that surround transportation security against terrorism

Handling Societal Complexity Dorien DeTombe, 2015-02-24 This handbook for the Methodology of Societal Complexity describes the theoretical development of the field and lays the foundation for the application of the Compram Methodology in the context of addressing complex societal problems As such it offers a valuable resource for scientists practitioners politicians master and PhD students in the fields of methodology the social sciences operational research management and political science and for all others who are professionally involved in handling complex societal problems These problems are the kind that fill the front page of quality newspapers they have a huge impact on society involve a variety of phenomena and actors and are therefore difficult to handle The structured Compram Methodology provides sound guidelines for handling real life societal problems democratically sustainably and transparently Examples of the use of the Compram Methodology are provided in the domain of global safety with regard to healthcare economics climate change terrorism large city problems large technological projects and floods Complex societal problems must be treated as multi disciplinary multi actor multi level and often as multi continental issues As such they call for a multi disciplinary and multi actor approach that takes into account the emotional aspects of the problem and the problem handling process including the micro meso and macro level which can be accomplished using the methods models and tools from the field of the Methodology of Societal Complexity The Compram Methodology improves the problem handling process and increases the quality of interventions and therefore the quality of life Handling complex societal problems can reduce conflicts save money and ultimately even save lives Dorien J DeTombe is an internationally recognized expert and founder of the Theory of the Methodology of Societal Complexity and the Compram Methodology

Archeologia e Calcolatori, Supplemento 6, 2014. ARCHEOSEMA. Artificial Adaptive Systems for the Analysis of Complex Phenomena. Collected Papers in Honour of David Leonard Clarke Marco Ramazzotti, 2014-01-01 ARCHEOSEMA a meta disciplinary project of theoretical analytical and experimental archaeology has been recently awarded by La Sapienza University of Rome The project title is an acronym which sums up its two main theoretical foundations the openness of modern archaeology ARCHEO to the analysis of physical historical linguistic signs SEMA underlying natural and cultural systems reconstructed and simulated through Artificial Sciences This volume edited by Marco Ramazzotti a Supplement to Archeologia e Calcolatori is a Special Issue dedicated to



the memory of the English archaeologist David Leonard Clarke 1937 1976 and is a further attempt to collect some applicative studies of complex natural and cultural phenomena following the Artificial Intelligence computational models through the lens of Analytical Archaeology

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