

Entropy In Urban And Regional Modelling

Routledge

Entropy in Urban and Regional Modelling Handbook on Entropy, Complexity and Spatial Dynamics Modelling in Urban and Regional Economics Compromise Planning : A Theoretical Approach from a Distant Corner of Europe GIS for Sustainable Development Being Interdisciplinary New Models in Geography - Vol 2 International Encyclopedia of Human Geography Macro-econometric Models Environment & Planning A. Environment & Planning Applied Spatial Modelling and Planning Physical and Information Models in Geography (Routledge Revivals) Clusters and Regional Specialisation The Cumulative Book Index Lessons in flower and fruit modelling in wax ... With practical illustrations Urban and Regional Economics: Regional modelling and regional dynamics European Integration and the Asia-Pacific Region Recent Developments in Spatial Data Analysis British Book News Alan Wilson Reggiani, Aura Alex Anas Louis C. Wassenhoven Michele Campagna Alan Wilson Richard Peet Götz Uebe John R Lombard Richard Chorley Michael Steiner John Mintorn Philip McCann Høng-jong Kim Gerhard Bahrenberg

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first published in 1970 this groundbreaking investigation into entropy in urban and regional modelling provides an extensive and detailed insight into the entropy maximising method in the development of a whole class of urban and regional models the book has its origins in work being carried out by the author in 1966 when he realised that the well known gravity

model could be derived on the basis of an analogy with statistical rather than newtonian mechanics subsequent investigation demonstrated that the entropy maximising method stems from an even higher level of generality and the beginning of the book is devoted to an account of its importance and use as a general modelling tool this reissue will be welcomed by a range of students and professionals from fields as diverse as urban and regional studies economics geography planning civil engineering mathematics and statistics

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

this title provides a comprehensive critical coverage of the progress and development of mathematical modelling within urban and regional economics over four decades

the purpose of the book is to elaborate a planning theory which departs from the plethora of theories which reflect the conditions of developed countries of the north west the empirical material of this effort is derived from a country greece which sits on the edge between north west and south east at the corner of europe no doubt there is extensive international literature on planning theory in general from a bewildering variety of viewpoints the interested professional or student of urban and regional planning is certainly aware of the dizzying flood of books articles and research reports on planning theory and of their never ending borrowing of obscure concepts from more respectable scientific disciplines from mathematics to philosophy and from physics to economics human geography and sociology he or she probably observed that there is a growing interest in theoretical approaches from the viewpoint of the so called global south the author of the present book has for many decades faced the impasse of attempting to transplant theories founded on the experience of the north west to countries with a totally different historical political social and geographical background he learned that the reality that planners face is unpredictable patchy and responsive to social processes frequently of a very pedestrian nature planning strives to deal with private interests which planners are keen to envelop in a single public interest which is extremely hard to define the behaviour of the average citizen far from being that of the neoclassical model of the homo economicus is that of an individual a kind of homo individualis who interacts with the state and the public administration within a complex web of mutual dependence and negotiation the state and its administrative apparatus i e the key determinants and fixers of urban and regional planning policy bargain with this individual offer inducements exemptions derogations and privileges deviate unhesitatingly from their grand policy pronouncements but still defend the rationality and comprehensiveness of the

planning system they have legislated and operationalized it is by and large a successful modus vivendi but only thanks to a constant practice of compromise hence the term compromise planning which the author coined as an alternative to all the existing theoretical forms of planning this is the sort of planning and of the accompanying theory with which he deals in this book it is the outcome of experience and knowledge accumulated in a long personal journey of academic teaching in england and greece research and professional involvement

gis for sustainable development examines how gis applications can improve collaboration in decision making among those involved in promoting sustainable development this volume reviews leading giscience providing an overview of research topics and applications that enable gis newcomers and professionals to apply giscience methods to susta

in being interdisciplinary alan wilson draws on five decades as a leading figure in urban science to set out a systems approach to interdisciplinarity for those conducting research in this and other fields he argues that most research is interdisciplinary at base and that a systems perspective is particularly appropriate for collaboration because it fosters an outlook that sees beyond disciplines there is a more subtle thread too a systems approach enables researchers to identify the game changers of the past as a basis for thinking outside convention for learning how to do something new and how to be ambitious in a nutshell how to be creative ultimately the ideas presented address how to do research building on this systems focus the book first establishes the basics of interdisciplinarity then by drawing on the author s experience of doing interdisciplinary research and working from his personal toolkit it offers general principles and a framework from which researchers can build their own interdisciplinary toolkit with elements ranging from explorations of game changers in research to superconcepts in the last section the book tackles questions of managing and organising research from individual to institutional scales alan wilson deploys his wide experience researcher in urban science university professor and vice chancellor civil servant and institute director to build the narrative while his experience in urban science provides the illustrations the principles apply across many research fields

two decades after the publication of the seminal models in geography edited by richard chorley peter haggett this major collection of specially commissioned essays charts the new human geography from the perspective of political economy providing surveys of recent trends in theory bibliographic guides to the literature and pointers to advances and frontiers in thinking the book ranges from cultural to economic and urban geography the authors explore the connections between political economy and geographical thought in each area with the emphasis lying on the processes of material production and social reproduction

international encyclopedia of human geography second edition fourteen volume set embraces diversity by design and captures the ways in which humans share places and view differences based on gender race nationality location and other factors in other words the things that make people and places different questions of for example politics economics race relations and migration are introduced and discussed through a geographical lens this updated edition will assist readers in their research by providing factual information historical perspectives theoretical approaches reviews of literature and provocative topical discussions that will stimulate creative thinking presents the most up to date and comprehensive coverage on the topic of human geography contains extensive scope and depth of coverage emphasizes how geographers interact with understand and contribute to problem solving in the contemporary world places an emphasis on how geography is relevant in a social and interdisciplinary context

this is the second edition essentially a completely newly written state of the art introduction into the field of macro econometric models its first focus is to present the different specifications and strands of ideas of macro econometric models its empirical and analytical uses in economic policy economic theory economic history and empirical applications it documents the intellectual achievements and performance of applied macroeconomic models in general theoretically and by typical and representative illustrations leading the reader to the frontiers of present research secondly the book is an introductory text into the bibliography of macro models which is the background of the monograph recalling the field of macro econometric models there are additional appendices e g explaining the keywords which cover this territory of economic knowledge and documenting the huge use of such models a multilingual cross reference dictionary german english french spanish italian concludes the book

this book highlights the extraordinary range of areas to which geographical analysis and spatial modelling can bring lessons and insights it shows how these techniques have been used to address real world issues that are of concern to international organisations public agencies and businesses as illustrated by actual funded projects that geographers have developed collaboratively with end users applied spatial modelling and planning shows how much geographical research is policy relevant to a wide variety of agencies through the use of gis and spatial modelling in applied geography the book s chapters contain a cross section of innovative applications and approaches to problem solving within five major domains of the dynamics of economic space housing and settlements population movements and population ageing health care and the environment using a number of case studies on the use of gis and spatial modelling this book demonstrates the fact that much of what is done by quantitative geographers is not only relevant within academia but also has use in policy work this book will appeal to an international audience interested in cutting edge

spatial modelling to better understand the processes involved in solving real problems

first published in 1967 this book explores the theme of geographical generalization or model building it is composed of eight of the chapters from the original models in geography published in 1967 the first chapter broadly outlines geographical generalization and examines the nature and function of generalized statements ranging from conceptual models to scale models in a geographical context the following chapter deals with model theory in a wider scientific framework and the rest of the book discusses models of physical systems and information models the book considers model type generalizations that are applied in the three fields of geomorphology meteorology and climatology and hydrology before focusing on the transference of information and ideas in geography this text represents a robustly anti idiographic statement of modern work in one of the major branches of geography

the contributors to this volume classify and develop the theoretical approaches which underlie the interrelationships between economic actors that clusters describe and consider the implications of such interrelationships for economic growth and development building on experiences in empirical analysis they provide diverse methodological approaches to the conceptualization and identification of clusters they also address the policy relevance of a cluster approach and openly discuss the risks of regional specialization

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