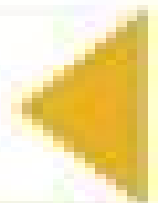


Microsimulation Modelling for Policy Analysis

Challenges and Innovations

edited by **Lionel Hurns, Bruce Schmelzer**
and **Malin Wicks**



Microsimulation Modelling For Policy Analysis

Cathal O'Donoghue



Microsimulation Modelling For Policy Analysis:

Microsimulation Modelling for Policy Analysis Lavinia Mitton,Holly Sutherland,Melvyn Weeks,2000-09-21

Applications and methods of state of the art microsimulation modelling Microeconomic Modeling and Policy Analysis
Thomas G. Cowing,Daniel McFadden,1984 Approaches to energy use modeling Residential energy demand simulation models
Residential energy policy analysis the alternative policy scenarios Simulation results from the REEPS model Simulation
results from the ORNL model A comparative analysis of model performance REEPS versus ORLN **Practical**

Microsimulation Modelling Cathal O'Donoghue,2021 This book brings together a description and examples of the main
methods used in microsimulation modelling used in the field of income distribution analysis It is structured to develop and
use the different types of models used in the field with a focus on household targeted policy *Microsimulation Modelling
for Policy Analysis* Lavinia Mitton,Holly Sutherland,Melvyn Weeks,2000-09-21 The editors bring together examples of
microsimulation modeling that are at the frontiers of developments in the field either because they extend the range of
techniques available to modelers or because they demonstrate new applications for established methods This volume
represents the state of the art with chapters on the use of microsimulation for comparative policy research and for
challenging conventional assumptions combining microsimulation with other types of economic models and the much
neglected subjects of model alignment and validation Data and case studies are taken from regions including Asia Pacific
Europe and North America *Spatial Microsimulation: A Reference Guide for Users* Robert Tanton,Kimberley
Edwards,2012-11-13 This book is a practical guide on how to design create and validate a spatial microsimulation model
These models are becoming more popular as academics and policy makers recognise the value of place in research and policy
making Recent spatial microsimulation models have been used to analyse health and social disadvantage for small areas and
to look at the effect of policy change for small areas This provides a powerful analysis tool for researchers and policy makers
This book covers preparing the data for spatial microsimulation a number of methods for both static and dynamic spatial
microsimulation models validation of the models to ensure the outputs are reasonable and the future of spatial
microsimulation The book will be an essential handbook for any researcher or policy maker looking to design and create a
spatial microsimulation model This book will also be useful to those policy makers who are commissioning a spatial
microsimulation model or looking to commission work using a spatial microsimulation model as it provides information on the
different methods in a non technical way Spatial Microsimulation with R Robin Lovelace,2017-09-07 Generate and
Analyze Multi Level Data Spatial microsimulation involves the generation analysis and modeling of individual level data
allocated to geographical zones Spatial Microsimulation with R is the first practical book to illustrate this approach in a
modern statistical programming language Get Insight into Complex BehaviorsThe book progresses from the principles
underlying population synthesis toward more complex issues such as household allocation and using the results of spatial

microsimulation for agent based modeling This equips you with the skills needed to apply the techniques to real world situations The book demonstrates methods for population synthesis by combining individual and geographically aggregated datasets using the recent R packages ipfp and mipfp This approach represents the best of both worlds in terms of spatial resolution and person level detail overcoming issues of data confidentiality and reproducibility Implement the Methods on Your Own Data Full of reproducible examples using code and data the book is suitable for students and applied researchers in health economics transport geography and other fields that require individual level data allocated to small geographic zones By explaining how to use tools for modeling phenomena that vary over space the book enhances your knowledge of complex systems and empowers you to provide evidence based policy guidance

A Roadmap to Reducing Child Poverty

National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Board on Children, Youth, and Families, Committee on Building an Agenda to Reduce the Number of Children in Poverty by Half in 10 Years, 2019-09-16 The strengths and abilities children develop from infancy through adolescence are crucial for their physical emotional and cognitive growth which in turn help them to achieve success in school and to become responsible economically self sufficient and healthy adults Capable responsible and healthy adults are clearly the foundation of a well functioning and prosperous society yet America's future is not as secure as it could be because millions of American children live in families with incomes below the poverty line A wealth of evidence suggests that a lack of adequate economic resources for families with children compromises these children's ability to grow and achieve adult success hurting them and the broader society A Roadmap to Reducing Child Poverty reviews the research on linkages between child poverty and child well being and analyzes the poverty reducing effects of major assistance programs directed at children and families This report also provides policy and program recommendations for reducing the number of children living in poverty in the United States by half within 10 years

Handbook of Microsimulation Modelling Cathal

O'Donoghue, 2014-11-06 Microsimulation Modelling involves the application of simulation methods to micro data for the purposes of evaluating the effectiveness and improving the design of public policy The field has been applied to many different policies within both government and academia This handbook describes and discusses the main issues within the field

Practical Microsimulation Modelling Cathal O'Donoghue, 2021-09-23

The purpose of this book is to bring together for the first time a description and examples of the main methods used in microsimulation modelling used in the field of income distribution analysis It is structured to develop and use the different types of models used in the field with a focus on household targeted policy The book aims to provide a greater degree of codified knowledge by providing a practical guide to developing and using microsimulation models At present the training of researchers and analysts that use and develop microsimulation modelling is done on a relatively ad hoc basis through occasional training programmes and lecture series built around lecture notes Practical Microsimulation Modelling enables a more formalised and organised approach Each

chapter addresses a separate modelling approach in a similar consistent way describing in a practical way the key methodological skills for each approach **Development Policies and Policy Processes in Africa** Christian Henning, Ousmane Badiane, Eva Krampe, 2017-10-05 This book is open access under a CC BY 4.0 license The book examines the methodological challenges in analyzing the effectiveness of development policies It presents a selection of tools and methodologies that can help tackle the complexities of which policies work best and why and how they can be implemented effectively given the political and economic framework conditions of a country The contributions in this book offer a continuation of the ongoing evidence based debate on the role of agriculture and participatory policy processes in reducing poverty They develop and apply quantitative political economy approaches by integrating quantitative models of political decision making into existing economic modeling tools allowing a more comprehensive growth poverty analysis The book addresses not only scholars who use quantitative policy modeling and evaluation techniques in their empirical or theoretical research but also technical experts including policy makers and analysts from stakeholder organizations involved in formulating and implementing policies to reduce poverty and to increase economic and social well being in African countries

Behavioral Simulation Methods in Tax Policy Analysis Martin Feldstein, 2007-12-01 These thirteen papers and accompanying commentaries are the first fruits of an ongoing research project that has concentrated on developing simulation models that incorporate the behavioral responses of individuals and businesses to alternative tax rules and rates and on expanding computational general equilibrium models that analyze the long run effects of changes on the economy as a whole The principal focus of the project has been on the microsimulation of individual behavior Thus this volume includes studies of individual responses to an over reduction in tax rates and to changes in the highest tax rates a study of alternative tax treatments of the family and studies of such specific aspects of household behavior as tax treatment of home ownership charitable contributions and individual saving behavior Microsimulation techniques are also used to estimate the effects of alternative policies on the long run financial status of the social security program and to examine the effects of alternative tax rules on corporate investment and of foreign source income on overseas investment The papers devoted to the development of general equilibrium simulation models to include an examination of the implications of international trade and capital flows a study of the effects of capital taxation that uses a closed economy equilibrium model and an examination of the effect of switching to an inflation indexed tax system In the volume's final paper a life cycle model in which individuals maximize lifetime utility subject to a lifetime budget constraint is used to simulate the effects of tax rules on personal savings

Handbook of Microsimulation Modelling Cathal O'Donoghue, 2014-11-06 Microsimulation Modelling involves the application of simulation methods to micro data for the purposes of evaluating the effectiveness and improving the design of public policy The field has been applied to many different policies within both government and academia This handbook describes and discusses the main issues within the field **Urban Informatics** Wenzhong Shi, Michael F.

Goodchild, Michael Batty, Mei-Po Kwan, Anshu Zhang, 2021-04-06 This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning control management and future planning It introduces new models and tools being developed to understand and implement these technologies that enable cities to function more efficiently to become smart and sustainable The smart city has quickly emerged as computers have become ever smaller to the point where they can be embedded into the very fabric of the city as well as being central to new ways in which the population can communicate and act When cities are wired in this way they have the potential to become sentient and responsive generating massive streams of big data in real time as well as providing immense opportunities for extracting new forms of urban data through crowdsourcing This book offers a comprehensive review of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key urban analytics that are fundamental to learning about the smart city and it outlines ways in which these tools can be used to inform design and policy so that cities can become more efficient with a greater concern for environment and equity

Microsimulation in Government Policy and Forecasting Anil Gupta, Vishnu Kapur, 2000 Selected and revised papers from the conference on Microsimulation in government policy and forecasting held in Portland Maine in July 1997 the volume also contains invited contributions by experts in the field and a separate part on practical microsimulation models Preface

Statistics for Data Science and Policy Analysis Azizur Rahman, 2021-04-01 This book brings together the best contributions of the Applied Statistics and Policy Analysis Conference 2019 Written by leading international experts in the field of statistics data science and policy evaluation This book explores the theme of effective policy methods through the use of big data accurate estimates and modern computing tools and statistical modelling

Simulating Societal Change Peter Davis, Roy Lay-Yee, 2019-02-12 This book presents a method for creating a working model of society using data systems and simulation techniques that can be used for testing propositions of scientific and policy nature The model is based on the example of New Zealand but will be applicable to other countries It is expected that collaborators in other countries can emulate this example with their data systems for teaching and policy purposes producing a cross national collaboratory This enterprise will evolve with and to a degree independently of the book itself with a supporting website as well as teaching and scientific initiatives Readers of this text will for the first time have a simulation based working model of society that can be interrogated for policy and substantive purposes This book will appeal to researchers and professionals from various disciplines working within the social sciences particularly on matters of demography and public policy

Evidence-Based Policy Making in the Social Sciences Stoker, Gerry, Evans, Mark, 2016-09-29 This book gathers an expert group of social scientists to showcase emerging forms of analysis and evaluation for public policy analysis Each chapter highlights a different method or approach putting it in context and

highlighting its key features before illustrating its application and potential value to policy makers Aimed at upper level undergraduates in public policy and social work it also has much to offer policy makers and practitioners themselves

Improving Information for Social Policy Decisions: Technical papers National Research Council (U.S.). Panel to Evaluate Microsimulation Models for Social Welfare Programs,1991 **Agent-based Modeling of Tax Evasion** Sascha Hokamp,Laszlo Gulyas,Matthew Koehler,Sanith Wijesinghe,2018-03-19 The only single source guide to understanding using adapting and designing state of the art agent based modelling of tax evasion A computational method for simulating the behavior of individuals or groups and their effects on an entire system agent based modeling has proven itself to be a powerful new tool for detecting tax fraud While interdisciplinary groups and individuals working in the tax domain have published numerous articles in diverse peer reviewed journals and have presented their findings at international conferences until Agent based Modelling of Tax Evasion there was no authoritative single source guide to state of the art agent based tax evasion modeling techniques and technologies Featuring contributions from distinguished experts in the field from around the globe Agent Based Modelling of Tax Evasion provides in depth coverage of an array of field tested agent based tax evasion models Models are presented in a unified format so as to enable readers to systematically work their way through the various modeling alternatives available to them Three main components of each agent based model are explored in accordance with the Overview Design Concepts and Details ODD protocol each section of which contains several sub elements that help to illustrate the model clearly and that assist readers in replicating the modeling results described Presents models in a unified and structured manner to provide a point of reference for readers interested in agent based modelling of tax evasion Explores the theoretical aspects and diversity of agent based modeling through the example of tax evasion Provides an overview of the characteristics of more than thirty agent based tax evasion frameworks Functions as a solid foundation for lectures and seminars on agent based modelling of tax evasion The only comprehensive treatment of agent based tax evasion models and their applications this book is an indispensable working resource for practitioners and tax evasion modelers both in the agent based computational domain and using other methodologies It is also an excellent pedagogical resource for teaching tax evasion modeling and or agent based modeling generally *Modelling Geographical Systems* B. Boots,A. Okabe,R. Thomas,2003-11-30 This book presents a selection of innovative ideas currently shaping the development and testing of geographical systems models by means of statistical and computational approaches It spans all geographic scales deals with both individuals and aggregates and represents natural human and integrated spatial systems This book is relevant to researchers post and under graduates and professionals in the areas of quantitative geography spatial analysis spatial modelling and geographical information sciences

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