

Advances in Spatial Science

Yasuhide Okuyama  
Adam Rose *Editors*

# Advances in Spatial and Economic Modeling of Disaster Impacts

 Springer

# Modeling Spatial And Economic Impacts Of Disasters

**Yasuhide Okuyama, Stephanie E.  
Chang**



## **Modeling Spatial And Economic Impacts Of Disasters:**

Modeling Spatial and Economic Impacts of Disasters Yasuhide Okuyama,Stephanie E. Chang,2013-06-29 This volume is dedicated to the memory of Barclay G Jones Professor of City and Regional Planning and Regional Science at Cornell University Over a decade ago Barclay took on a fledgling area of study economic modeling of disasters and nurtured its early development He served as the social science program director at the National Center for Earthquake Engineering Research NCEER a university consortium sponsored by the National Science Foundation and the Federal Emergency Management Agency of the United States In this capacity Barclay shepherded and attracted a number of regional scientists to the study of disasters He organized a conference held in the ill fated World Trade Center in September 1995 on The Economic Consequences of Earthquakes Preparing for the Unexpected He persistently advocated the importance of social science research in an establishment dominated by less than sympathetic natural scientists and engineers In 1993 Barclay organized the first of a series of sessions on Measuring Regional Economic Effects of Unscheduled Events at the North American Meetings of the Regional Science Association International RSAI This unusual nomenclature brought attention to the challenge that disasters largely unanticipated often sudden and always disorderly pose to the regional science modeling tradition The sessions provided an annual forum for a growing coalition of researchers where previously the literature had been fragmentary scattered and episodic Since Barclay s unexpected passing in 1997 we have continued this effort in his tradition

Modeling Spatial and Economic Impacts of Disasters Yasuhide Okuyama,Stephanie E. Chang,2004-05-18 This book brings together a collection of innovative papers on strategies for analyzing the spatial and economic impacts of disasters Natural and human induced disasters pose several challenges for conventional modeling For example disasters entail complex linkages between the natural built and socio economic environments They often create chaos and economic disequilibrium and can also cause unexpected long term structural changes Dynamic interactions among agents and behavioral adjustments in a disaster become complicated The papers in this volume make notable progress in tackling these challenges through refinements of conventional methods as well as new modeling frameworks and multidisciplinary integrative strategies The papers also provide case study applications that afford new insights on disaster processes and loss reduction strategies

Modeling Spatial and Economic Impacts of Disasters Yasuhide Okuyama,Stephanie E. Chang,2014-03-12 This volume is dedicated to the memory of Barclay G Jones Professor of City and Regional Planning and Regional Science at Cornell University Over a decade ago Barclay took on a fledgling area of study economic modeling of disasters and nurtured its early development He served as the social science program director at the National Center for Earthquake Engineering Research NCEER a university consortium sponsored by the National Science Foundation and the Federal Emergency Management Agency of the United States In this capacity Barclay shepherded and attracted a number of regional scientists to the study of disasters He organized a conference held in the ill fated World Trade Center in September

1995 on The Economic Consequences of Earthquakes Preparing for the Unexpected He persistently advocated the importance of social science research in an establishment dominated by less than sympathetic natural scientists and engineers In 1993 Barclay organized the first of a series of sessions on Measuring Regional Economic Effects of Unscheduled Events at the North American Meetings of the Regional Science Association International RSAI This unusual nomenclature brought attention to the challenge that disasters largely unanticipated often sudden and always disorderly pose to the regional science modeling tradition The sessions provided an annual forum for a growing coalition of researchers where previously the literature had been fragmentary scattered and episodic Since Barclay s unexpected passing in 1997 we have continued this effort in his tradition      *Advances in Spatial and Economic Modeling of Disaster Impacts* Yasuhide Okuyama,Adam Rose,2019-11-08 This book presents essential advances in analytical frameworks and tools for modeling the spatial and economic impacts of disasters In the wake of natural disasters such as Hurricane Katrina the Haiti Earthquake and the East Japan Earthquake and Tsunami as well as major terrorist attacks the book analyzes disaster impacts from various perspectives including resilience space time extensions and decision making strategies in order to better understand how and to what extent these events impact economies and societies around the world The contributing authors are internationally recognized experts from various disciplines such as economics geography planning regional science civil engineering and risk management Thanks to the insights they provide the book will benefit not only researchers in these and related fields but also graduate students disaster management professionals and other decision makers      *Natural Disasters and Climate Change* Stéphane Hallegatte,2014-09-17 This book explores economic concepts related to disaster losses describes mechanisms that determine the economic consequences of a disaster and reviews methodologies for making decisions regarding risk management and adaptation The author addresses the need for better understanding of the consequences of disasters and reviews and analyzes three scientific debates on linkage between disaster risk management and adaptation to climate change The first involves the existence and magnitude of long term economic impact of natural disasters on development The second is the disagreement over whether any development is the proper solution to high vulnerability to disaster risk The third debate involves the difficulty of drawing connections between natural disasters and climate change and the challenge in managing them through an integrated strategy The introduction describes economic views of disaster including direct and indirect costs output and welfare losses and use of econometric tools to measure losses The next section defines disaster risk delineates between good and bad risk taking and discusses a pathway to balanced growth A section entitled Trends in Hazards and the Role of Climate Change sets scenarios for climate change analysis discusses statistical and physical models for downscaling global climate scenarios to extreme event scenarios and considers how to consider extremes of hot and cold storms wind drought and flood Another section analyzes case studies on hurricanes and the US coastline sea level rises and storm surge in Copenhagen and heavy precipitation in Mumbai A section on

Methodologies for disaster risk management includes a study on cost benefit analysis of coastal protections in New Orleans and one on early warning systems in developing countries The next section outlines decision making in disaster risk management including robust decision making No regret and No risk strategies and strategies that reduce time horizons for decision making Among the conclusions is the assertion that risk management policies must recognize the benefits of risk taking and avoid suppressing it entirely The main message is that a combination of disaster risk reduction resilience building and adaptation policies can yield large potential gains and synergies

*Economic Impacts and Emergency Management of Disasters in China* Xianhua Wu, Ji Guo, 2021-04-23 This book uses cutting edge methods such as big data mining methods on social media generalized difference in difference inoperational input output models improved data envelopment analysis improved computable general equilibrium and others to calculate the economic impacts of climate and environmental disasters on China This book provides the ideas methods and cases of the redistribution of air pollution emissions in China through evaluating the benefits of meteorological disaster services and meteorological financial insurance Using big data resources and data mining methods as well as econometric models etc this book provides a comprehensive assessment of the economic impact of disasters in China and studies China's counterpart aid policy and international aid policy for disasters This book is an academic monograph devoted to the China's case study The intended readership includes academics government officials graduate students and people concerned about China

Disaster Management and Human Health Risk III C. A. Brebbia, 2013-06-01 An increasing number of large scale natural disasters have affected millions of people in recent years Major earthquakes floods And hurricanes have caused great destruction of property and loss of life while forest fires pipeline failures and bombings have created equally devastating affects on a smaller scale The increased threats are the topic of the Third International Conference on Disaster Management and Human Health Risk convened so that experts on public health security and disaster management could share information This book contains the papers presented at the conference Topics covered include Disaster analysis Disaster monitoring and mitigation Emergency preparedness Risk mitigation Risk and security Safety and resilience Socio economic issues Biological threats Learning from disasters

**Input-Output Analysis** Ronald E. Miller, Peter D. Blair, 2022-01-13 This essential reference for students and scholars in the input output research and applications community has been fully revised and updated to reflect important developments in the field Expanded coverage includes construction and application of multiregional and interregional models including international models and their application to global economic issues such as climate change and international trade structural decomposition and path analysis linkages and key sector identification and hypothetical extraction analysis the connection of national income and product accounts to input output accounts supply and use tables for commodity by industry accounting and models social accounting matrices non survey estimation techniques and energy and environmental applications Input Output Analysis is an ideal introduction to the subject for advanced undergraduate and graduate students

in many scholarly fields including economics regional science regional economics city regional and urban planning environmental planning public policy analysis and public management

**The Economic Impacts of Terrorist Attacks**  
 James Elliott Moore, 2007-01-01 These papers enhance our understanding of numerous aspects of the terrorism problem

Andrew Haughwout Papers in Regional Science The Economic Impact of Terrorist Attacks exposes the reader to a healthy sampling of the current approaches that researchers have taken in addressing a challenging set of economic problems Jared C Carbone Journal of Regional Science Knowledgeably compiled and expertly co edited by the team of Harry W Richardson Peter Gordon and James E Moore II The Economic Impacts of Terrorist Attacks is a groundbreaking study of the extensive damage done to the American economy as a result of terrorism with a particular focus on the attacks in 2001 very highly recommended to students of politics economics and the present war on terrorism The Midwest Book Review Focussing on the economics of terrorism in the post 9 11 world this book brings together original research based on the collaborative efforts of leading economists and planners The authoritative and expert contributors use a variety of methodological approaches and apply them to different types of terrorist attacks on airports highways seaports electric power infrastructure for example They also draw analogies between man made and natural disasters The results suggest that these issues are extremely complex and that the economic costs of some types of attack are huge but that increased understanding and estimation can be used to justify resource investments in prevention mitigation and response A primary aim of the book is to contribute to developing more cost effective anti terrorist policies Scholars and researchers in the fields of transportation public sector economics urban planning disaster prevention mitigation and management and engineers will find The Economic Impacts of Terrorist Attacks a major contribution to a new and rapidly expanding research area

*Spatial Economic Modelling of Megathrust Earthquake in Japan* Suminori Tokunaga, Budy P. Resosudarmo, 2017-12-19 This book presents an evaluation of the impacts of megathrust earthquakes and tsunamis on regional economies and subsequent reconstruction as well as regional revitalization by the spatial economic model and dynamic macro and regional computable general equilibrium CGE models The cases examined are the Great East Japan Earthquake and the Indian Ocean Tsunami The study constructs three models of these megathrust earthquakes and the associated tsunami In the first model the regional CGE model is proposed with a database comprising the two regional social accounting matrix for 2005 between the region comprising four disaster affected prefectures of Japan and the non disaster region For the recursive dynamic regional CGE model the model that expanded and improved the dynamic two regional CGE model to reflect the incomplete employment conditions and the aging society is used to analyze the impacts of an earthquake and the construction of industrial clusters In the second model the interregional input output model is proposed in order to analyze the impacts of the earthquake and rapid population decline and construction of a biogas electricity power plant In the third model a new economic geography NEG model is proposed consisting of the 47 prefectures of Japan in order to investigate the impacts of the Great East Japan and Nankai megathrust

earthquakes and the associated tsunami and to consider how they change the regional economies of Japan Using these three models the impacts of megathrust earthquakes and tsunamis on regional economies and reconstruction and on regional revitalization are evaluated      **Methodologies for Estimating the Economic Impacts of Natural Disasters** Hirokazu Tatano,Yoshio Kajitani,2021-10-05 This book outlines methodologies to estimate the economic impacts of natural disasters based on business surveys conducted after large disasters in Japan By including numerous observations on business activities in past disasters and the validations of both engineering and economic models based on these data sets this book appeals to practitioners who estimate the regional economic impacts as well as to students and young professionals in various fields who conduct disaster impact studies The book consists of 7 chapters and includes theories and practices which help readers to interlink the estimation methods with real world problems The study primarily focuses on cases in Japan but the methods employed can be generalized and applied in other countries      Handbook on the Economics of Disasters Skidmore, Mark,2022-10-13 Evaluating the myriad dimensions of how disasters can affect economic activity and decision making this cutting edge Handbook presents a timely analysis of the conditions that reduce or exacerbate disaster impacts Addressing developments in research on disaster economics internationally recognized scholars combine theoretical considerations with empirical methods to expand and improve the field of disaster mitigation      Routledge International Handbook of Complexity Economics Ping Chen,Wolfram Elsner,Andreas Pyka,2024-11-29 The Routledge International Handbook of Complexity Economics covers the historical developments and early concerns of complexity theorists and brings them into engagement with the world today In this volume a distinguished group of international scholars explore the state of the art of complexity economics and how it may deliver new and relevant insights to the challenges of the 21st century Complexity science started in 1899 when Henri Poincar described the three body problem The first approaches in economics emerged somewhat later in the 1980s driven by the Brussels Austin school Since then complexity economics has gone through numerous developments departing from linear simplifications applying physical algorithms to evolutionary economics and big data This book covers the basic principles and methods and offers an overview of the various domains ranging from diverse fields of productivity studies agricultural economics to monetary economics as well as the current challenges such as climate change epidemics and economic inequality where complexity economics can provide insight It closes with a review of complexity political economy and policy Offering a vibrant alternative to orthodox economics this handbook is a crucial resource for advanced students researchers and economists across the disciplines of heterodox economics economic theory and econophysics      *Integrated Catastrophe Risk Modeling* Aniello Amendola,Tatiana Ermolieva,Joanne Linnerooth-Bayer,Reinhard Mechler,2012-12-11 Efficient and equitable policies for managing disaster risks and adapting to global environmental change are critically dependent on development of robust options supported by integrated modeling The book is based on research and state of the art models developed at IIASA International Institute for Applied Systems

Analysis and within its cooperation network It addresses the methodological complexities of assessing disaster risks which call for stochastic simulation optimization methods and economic modeling Furthermore it describes policy frameworks for integrated disaster risk management including stakeholder participation facilitated by user interactive decision support tools Applications and results are presented for a number of case studies at different problem scales and in different socio economic contexts and their implications for loss sharing policies and economic development are discussed Among others the book presents studies for insurance policies for earthquakes in the Tuscany region in Italy and flood risk in the Tisza river basin in Hungary Further it investigates the economic impact of natural disasters on development and possible financial coping strategies and applications are shown for selected South Asian countries The book is addressed both to researchers and to organizations involved with catastrophe risk management and risk mitigation policies

Resilience and Urban Disasters Kamila Borsekova, Peter Nijkamp, 2019 This book addresses unexpected disasters and shocks in cities and urban systems by providing quantitative and qualitative tools for impact analysis and disaster management Including environmental catastrophes political turbulence and economic shocks Resilience and Urban Disasters explores a large range of tumultuous events and key case studies to thoroughly cover these core areas In particular the socio economic impacts on urban systems that are subject to disasters are explored

*Hurricanes and Climate Change* James B. Elsner, Thomas H. Jagger, 2010-01-23 Recent studies suggest that tropical cyclones are more powerful than in the past with the most dramatic increase in the North Atlantic The increase is correlated with an increase in ocean temperature A debate concerns the nature of these increases with some scientists attributing them to a natural climate fluctuation and others suggesting climate change related to anthropogenic increases in forcing from greenhouse gases A Summit on Hurricanes and Climate Change was held during the spring of 2007 on the island of Crete that brought together leading academics and researchers on both sides of the scientific debate to discuss new research and express opinions about what will happen in the future with regard to hurricane activity This proceedings volume highlights the state of the science research into various aspects of the hurricane climate connection It is likely that the science presented here will lead to new research that will help answer crucial questions about our sustainable future

**The Oxford Handbook of Urban Economics and Planning** Nancy Brooks, Kieran Donaghy, Gerrit-Jan Knaap, 2012-01-12 This volume embodies a problem driven and theoretically informed approach to bridging frontier research in urban economics and urban regional planning The authors focus on the interface between these two subdisciplines that have historically had an uneasy relationship Although economists were among the early contributors to the literature on urban planning many economists have been dismissive of a discipline whose leading scholars frequently favor regulations over market institutions equity over efficiency and normative prescriptions over positive analysis Planners meanwhile even as they draw upon economic principles often view the work of economists as abstract not sensitive to institutional contexts and communicated in a formal language spoken by few with decision making authority Not surprisingly



papers in the leading economic journals rarely cite clearly pertinent papers in planning journals and vice versa Despite the historical divergence in perspectives and methods urban economics and urban planning share an intense interest in many topic areas the nature of cities the prosperity of urban economies the efficient provision of urban services efficient systems of transportation and the proper allocation of land between urban and environmental uses In bridging this gap the book highlights the best scholarship in planning and economics that address the most pressing urban problems of our day and stimulates further dialog between scholars in urban planning and urban economics      *Encyclopedia of Technological*

*Hazards and Disasters in the Social Sciences* Duane A. Gill,Liesel A. Ritchie,Nnenia M. Campbell,2024-11-08 The Encyclopedia of Technological Hazards and Disasters in the Social Sciences brings together an array of global experts to investigate explore and analyse human caused disaster events Providing insights into both the origins and aftermaths of disaster events it offers advanced understanding of a broad range of disaster events facing society during the Anthropocene

Critical Infrastructure Alan T. Murray,Tony Grubestic,2007-05-05 This text brings together differing geographic perspectives in modeling and analysis in order to highlight infrastructure weaknesses or plan for their protection Offering new methodological approaches the book explores the potential consequences of critical infrastructure failure stemming from both man made and natural disasters The approaches employed are wide ranging including geographic economic and social perspectives      **Socioeconomic Environmental Policies and Evaluations in Regional Science** Hiroyuki

Shibusawa,Katsuhiro Sakurai,Takeshi Mizunoya,Susumu Uchida,2016-09-07 This book is a volume of essays celebrating the life and work of Yoshiro Higano professor of Environmental Policy Doctoral Program in Sustainable Environmental Studies Graduate School of Life and Environmental Sciences University of Tsukuba Japan Prof Higano s research strongly focuses on the comprehensive evaluation of resources and research content for decision science and engineering including simulation modeling for environmental quality control the evaluation of environmental remediation technologies integrated river lake basin management and synthesized environmental policy Yoshiro Higano is the past president of the Regional Science Association International RSAI and the current president of the Japan Section of the RSAI JSRSAI He also served as executive secretary for the Pacific Regional Science Conference Organizations PRSCO This edited volume covers a wide range of regional science approaches theory policy evaluation modeling simulation and practice It is a valuable reference work for researchers scholars policy makers and students in the field of regional science The volume celebrates Prof Higano s contributions to the JSRSAI PRSCO and RSAI Essay contributors include his former students and a wide array of regional scientists each with a personal connection to Prof Higano

## Embracing the Melody of Expression: An Emotional Symphony within **Modeling Spatial And Economic Impacts Of Disasters**

In some sort of used by screens and the ceaseless chatter of immediate conversation, the melodic elegance and psychological symphony produced by the prepared word often fade into the backdrop, eclipsed by the relentless sound and disruptions that permeate our lives. But, nestled within the pages of **Modeling Spatial And Economic Impacts Of Disasters** an enchanting literary value brimming with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that interesting masterpiece conducts viewers on an emotional trip, well unraveling the hidden tunes and profound affect resonating within each cautiously crafted phrase. Within the depths of the touching analysis, we can investigate the book is key harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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