Kiyohiro Ikeda · Kazuo Murota

Bifurcation Theory for Hexagonal Agglomeration in Economic Geography

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Bifurcation Theory For Hexagonal Agglomeration In Economic Geography

Richard E. Baldwin,Toshihiro Okubo

Bifurcation Theory For Hexagonal Agglomeration In Economic Geography:

   Bifurcation Theory for Hexagonal Agglomeration in Economic Geography Kiyohiro Ikeda,Kazuo Murota,2013-11-08 This book contributes to an understanding of how bifurcation theory adapts to the analysis of economic geography It is easily accessible not only to mathematicians and economists but also to upper level undergraduate and graduate students who are interested in nonlinear mathematics The self organization of hexagonal agglomeration patterns of industrial regions was first predicted by the central place theory in economic geography based on investigations of southern Germany The emergence of hexagonal agglomeration in economic geography models was envisaged by Krugman In this book after a brief introduction of central place theory and new economic geography the missing link between them is discovered by elucidating the mechanism of the evolution of bifurcating hexagonal patterns Pattern formation by such bifurcation is a well studied topic in nonlinear mathematics and group theoretic bifurcation analysis is a well developed theoretical tool A finite hexagonal lattice is used to express uniformly distributed places and the symmetry of this lattice is expressed by a finite group Several mathematical methodologies indispensable for tackling the present problem are gathered in a self contained manner The existence of hexagonal distributions is verified by group theoretic bifurcation analysis first by applying the so called equivariant branching lemma and next by solving the bifurcation equation This book offers a complete guide for the application of group theoretic bifurcation analysis to economic agglomeration on the hexagonal lattice   Bifurcation Theory of Pattern Formation in Economic Geography Kiyohiro Ikeda,Yuki Takayama,2024-11-14 Dive into the fascinating world of economic agglomerations with this interdisciplinary study which is perfect for readers in nonlinear mathematics economic geography and spatial economics This book uniquely bridges these fields employing group theoretic bifurcation analysis in nonlinear mathematics to establish a robust theoretical foundation for economic geographers and mathematicians alike Explore innovative models that describe the pattern formation in economic agglomerations through worker migration between regions Delve into multi regional formulations of classic economic geography models applied to various spatial platforms such as line segments racetracks squares and hexagonal lattices This book ideal for researchers and practitioners offers cutting edge insights and methodologies for understanding the complexities of spatial economic agglomerations

   Imperfect Bifurcation in Structures and Materials Kiyohiro Ikeda,Kazuo Murota,2019-09-25 Most physical systems lose or gain stability through bifurcation behavior This book explains a series of experimentally found bifurcation phenomena by means of the methods of static bifurcation theory   **The Economy as a Complex Spatial System** Pasquale Commendatore,Ingrid Kubin,Spiros Bougheas,Alan Kirman,Michael Kopel,Gian Italo Bischi,2017-09-18 This book is open access under a CC BY NC 4 0 license This collected volume represents the final outcome of the COST Action IS1104 The EU in the new complex geography of economic systems models tools and policy evaluation Visualizing the EU as a complex and multi layered network the book is organized in three parts each of them dealing with a different level of analysis At the macro

level Part I considers the interactions within large economic systems regions or countries involving trade workers migration and other factor movements At the meso level Part II discusses interactions within specific but wide ranging markets with a focus on financial markets and banking systems Lastly at the micro level Part III explores the decision making of single firms especially in the context of location decisions **Complexity, Emergence and the Evolution of Scientific Theories: Towards a Predictive Epistemology** Miguel Fuentes,2025-09-08 This book offers a unified view of emergence and complexity It also looks at theory change as the evolution of the complexity of theories The author makes use of concrete historical cases analyzed in the tradition of the philosophy of science to test the theses of this work The first chapter deals with the historical background on emergence It discusses several contemporary works on the subject their different points of view and their contributions to the present investigation Next the author details what is now known as complexity science He covers methodologies of this branch of knowledge taking into account the amount of information used to describe the system under study After this foundation coverage offers a novel quantitative definition of an emergent property This is based on another notion introduced in this work the parametric model complexity The author discusses several concepts that involve the importance of small variations of parameters that regulate the system and the universal characteristics that these small variations generate He then studies how this new notion can shed light on some aspects of scientific practice as the criteria for the choice between rival theories and the relationship between the emergence of new technologies and the risk in the appearance of anomalies *Mathematics Applied to Engineering, Modelling, and Social Issues* Frank T. Smith,Hemen Dutta,John N. Mordeson,2019-03-14 This book presents several aspects of research on mathematics that have significant applications in engineering modelling and social matters discussing a number of current and future social issues and problems in which mathematical tools can be beneficial Each chapter enhances our understanding of the research problems in a particular an area of study and highlights the latest advances made in that area The self contained contributions make the results and problems discussed accessible to readers and provides references to enable those interested to follow subsequent studies in still developing fields Presenting real world applications the book is a valuable resource for graduate students researchers and educators It appeals to general readers curious about the practical applications of mathematics in diverse scientific areas and social problems **Issues in Logic, Probability, Combinatorics, and Chaos Theory: 2013 Edition** ,2013-05-01 Issues in Logic Probability Combinatorics and Chaos Theory 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Approximation Theory The editors have built Issues in Logic Probability Combinatorics and Chaos Theory 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Approximation Theory in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Logic Probability Combinatorics and Chaos Theory 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and

companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com   *Stable Economic Agglomeration Patterns in Two Dimensions* Kiyohiro Ikeda,Kazuo Murota,Yuki Takayama,2017 This paper elucidates which agglomeration patterns exist in two dimensional economic space and how such patterns appear stably Hexagonal lattices that with and that without a boundary are advanced respectively as practical and theoretical spatial platforms of economic activities Agglomeration patterns on these lattices include hexagons in central place theory but also encompass megalopolis and racetrack shaped decentralization As the transport cost decreases stable economic agglomeration undergoes the formation of the smallest hexagon and transition to patterns with larger market areas often undergoing downtown decay but finally leading to a megalopolis Formulas for break points are provided in an economic geography model   Agglomeration and Market Interaction Masahisa Fujita,Jacques François Thisse,2002   **Spatial Agglomeration Dynamics** Danny Quah,2002

Agglomeration and Firm Performance Fiorenza Belussi,Jose-Luis Hervas-Oliver,2018-08-10 This contributed volume studies and explains the effect of agglomeration on a firm s innovation and performance It presents new cases as well as new topics within the agglomeration phenomenon exploring also their role under the Great Recession Beyond the analysis of regions or clusters this volume focuses on firms within agglomerations and captures this phenomenon from different perspectives contexts and diverse literatures Specifically it looks at the question under what circumstances exert generate benefits on firms performance and how those gains are generated and distributed usually asymmetrically across agglomerated firms In this context the book addresses topics such as networks collocation labor mobility firm s strategies innovation competitiveness and collective actions across a diverse set of literatures including economic geography business economics management social networks industrial districts international business sociology or industry dynamics

Industrial Agglomeration and New Technologies Masatsugu Tsuji,Emanuele Giovannetti,Mitsuhiro Kagami,2007 the book is an interesting collection of anecdotal evidence the book makes for interesting reading both from the point of view of case studies and in terms of empirical methodological applications Silvia Grandi Economic Geography Research Group This is a valuable book The individual chapters contain original case study evidence and analytical insights it is one that should be consulted by any scholar working in the area if industrial agglomerations and new technology Simona Iammarino Economic Geography This book a collaborative effort by researchers from Japan Italy and the USA seeks to explore the reasons for industrial clustering in certain regions of Asia Europe and North America The studies presented illustrate real examples of industrial clusters adding anecdotal evidence to the emerging theory of economic geography by exemplifying the centripetal and centrifugal forces that regulate the clustering process The authors examine clusters in a diverse set of countries including China Italy Japan Mexico South Korea the USA and Vietnam Significantly the book provides an interesting split

between studies of IT and software related industries and more traditional sectors such as steel and vehicle manufacturing Industrial Agglomeration and New Technologies pays attention to a varied array of factors that influence clustering such as knowledge spillovers tacit knowledge communication and transport costs and the effects of various government policies The case studies provide useful examples for government and industry leaders as well as a starting point for researchers seeking an ultimate answer to the question Why do firms form clusters *Agglomeration in a Core-periphery Model with Vertically- and Horizontally-integrated Firms* Karolina Ekholm,Rikard Forslid,1997 **Heterogenous Firms, Agglomeration and Economic Geography: Spatial Selection and Sorting** Richard E. Baldwin,2005 <u>Heterogeneous Firms, Agglomeration and Economic Geography</u> Richard E. Baldwin,2010 A Melitz style model of monopolistic competition with heterogeneous firms is integrated into a simple new economic geography model to show that the standard assumption of identical firms is neither necessary nor innocuous We show that relocating to the big region is most attractive for the most productive firms this implies interesting results for empirical work and policy analysis A selection effect means standard empirical measures overestimate agglomeration economies A sorting effect means that a regional policy induces the highest productivity firms to move to the core and the lowest productivity firms to the periphery We also show that heterogeneity dampens the home market effect *Bifurcation Analysis* Michiel Hazewinkel,R. Jurkovich,J.H.P. Pealinck,2012-12-06 Bifurcation theory has made a very fast upswing in the last fifteen years Roughly speaking it generalises to dynamic systems the pos sibility of mUltiple solutions a possibility already recognised in static systems physical chemical social when operating far from their equilibrium states It so happened that quite a few staff members of the Erasmus University Rotterdam were thinking along those lines about certain aspects of their disciplines To have a number of specialists and potential fans convene to discuss various aspects of bifurcation al thinking seemed a natural development The resulting papers were judged to be of interest to a larger public and as such are logically regrouped in this volume one in a series of studies resulting from the activities of the Steering Committee on Interdisciplinary Studies of the Erasmus University Rotterdam Although the volume is perhaps multidisciplinary rather than interdisciplinary the interdisciplinary aspect being only latent as a soft interdisciplinary exercise the application of formal structures of one discipline to another it has a right to interdisciplinary existence This book could not have been published without a generous grant of the University Foundation of the Erasmus University Rotterdam which allowed the conference to be held and the resulting papers to be published that generosity is gratefully acknowledged <u>Heterogeneous Firms, Agglomeration and Economic Geography</u> Richard E. Baldwin,Toshihiro Okubo,2004 <u>Numerical Bifurcation Analysis of Maps</u> I︠U︡riĭ Aleksandrovich Kuznet︠s︡ov,Yuri A. Kuznetsov,Hil G. E. Meijer,2019-03-28 Combines a systematic analysis of bifurcations of iterated maps with concrete MATLAB implementations and applications *Special Issue: Agglomeration, Economic Geography and Regional Growth* Philip McCann,Daniel Shefer,2005 *Economics of Agglomeration* Masahisa Fujita,Jacques François Thisse,1996

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Table of Contents Bifurcation Theory For Hexagonal Agglomeration In Economic Geography

1. Understanding the eBook Bifurcation Theory For Hexagonal Agglomeration In Economic Geography
    - The Rise of Digital Reading Bifurcation Theory For Hexagonal Agglomeration In Economic Geography
    - Advantages of eBooks Over Traditional Books
2. Identifying Bifurcation Theory For Hexagonal Agglomeration In Economic Geography
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Bifurcation Theory For Hexagonal Agglomeration In Economic Geography
    - User-Friendly Interface
4. Exploring eBook Recommendations from Bifurcation Theory For Hexagonal Agglomeration In Economic Geography
    - Personalized Recommendations

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