Global Analysis of Dynamic Models in Economics and Finance

Essays in Honour of Laura Gardini

Contents


Fields of interests

Economic Theory; Difference and Functional Equations; Game Theory/Mathematical Methods

Target groups

Research

Discount group

Professional Non-Medical

Mathematical Models for Evacuation Planning in Urban Areas

Disasters like floods, hurricanes, chemical or nuclear accidents may cause the necessity to evacuate the affected area. The evacuation of the urban area needs to be planned carefully. One issue is the reorganization of the traffic routing. Congested urban areas have usually complex street networks that are composed of many intersections with streets connecting them. The population density of a congested urban area is usually high and the street network is already used to capacity during rush hour traffic. The considered problem of this work is the reorganization of the traffic routing of an urban area for the case of an emergency mass evacuation. Especially aspects of the evacuation like safety, avoidance of delays and the total system travel time are taken into account. Combinatorial and graph theoretical aspects are adapted for the evacuation problem and highlight issues concerning especially conflicts within intersections. This work gives an extensive summary of literature of evacuation of urban areas.

Contents


Fields of interests

Operation Research/Decision Theory; Optimization; Discrete Optimization

Target groups

Research

Discount group

Professional Non-Medical

Small Businesses in the Aftermath of the Crisis

International Analyses and Policies

This book seeks to analyze how small and medium businesses react to the economic and financial crisis. Its focus is on the activities and strategies of SMEs in the areas of innovation, R&D investment, labor markets and finance.

Features

► Written by experts ► State-of-the-art contents ► Provides a comprehensive overview of the topic

Contents

Preface.- 1 SME and Entrepreneurship Policies After the Crisis.- 2 The Italian Small- and Medium-Sized Firms in the Aftermath of the Crisis: Is there a New Model?.- 3 Industrial Policy for SMEs Renewal: The Opportunity of Service Platforms.- 4 Product Innovation and Corporate Governance in Turbulent Times. Evidence from Italian SMEs. 5 Access to Finance in the EURO Area: What are SMEs telling us About the Crisis? 6 The Great Recession of 2008-2009.- 7 Examining the Impact of Credit Access on Small Firm Survivalability.- 8 Title.- 9 Starting Smaller; Staying Smaller: America’s Slow Leak in Job Creation.- 10 OECD Countries’ Policy Approach to the SME Crisis in the Recent Recession.- 11 The Internationalization of Italian SME After the Crisis: New Opportunities or New Threats?.- 12 Guarantees and Bank-Lend Interest Rates in Italian Small-Sized Firms.

Fields of interests

Entrepreneurship; Industrial Organization; R & D/Technology Policy

Target groups

Research

Discount group

Professional Non-Medical

Available

2012. XII, 210 p. 79 illus. (Lecture Notes in Economics and Mathematical Systems, Volume 659) Softcover
► approx. $99.00
ISBN 978-3-642-28758-9

Available

2012. XII, 256 p. 72 illus., 60 in color. (Contributions to Economics) Hardcover
► approx. $139.00
ISBN 978-3-7908-2851-1

Available

2012. XX, 360 p. 160 illus., 24 in color. Hardcover
► approx. $189.00
ISBN 978-3-642-29502-7
**The New Collective Bargaining**

This book explains how collective bargaining has changed in important and lasting ways over the past decade. We are now seeing a new and powerful strain of the concession bargaining that traces its roots back to the early 1980s. The collective bargaining of the past decade can be characterized as ultra-concession bargaining because it is an intense and self-perpetuating deviation from earlier concession bargaining. Employers now act and unions react, rather than the other way around. Employers no longer have to establish a credible case of financial hardship, or commit to the traditional quid pro quo of saving jobs in return for lower labor costs, or guarantee singularity (that concession bargaining is a single even that will not have to be repeated). Not all collective bargaining occurs as this extreme variant but it has become the prevailing form. Essentially, there has been a sea change in collective bargaining in America.

The book describes the transformation of collective bargaining in a lively and readable manner, avoiding academic, legalistic or technical jargon, and it will appeal to persons interested in the future directions of collective bargaining and unionism in America, (e.g.

**Contents**


**Fields of interests**

Economics general; Labor Economics; Industrial Organization

**Target groups**

Research

**Discount group**

Professional Non-Medical

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**Risk Analysis in Stochastic Supply Chains: A Mean-Risk Approach**

Risk analysis is crucial in stochastic supply chain models. Over the past few years, the pace has quickened for research attempting to explore risk analysis issues in supply chain management problems, while the majority of recent papers focus on conceptual framework or computational numerical analysis. Pioneered by Nobel laureate Markowitz in the 1950s, the mean-risk (MR) formulation became a fundamental theory for risk management in finance. Despite the significance and popularity of MR-related approaches in finance, their applications in studying multi-echelon supply chain management problems have only been seriously explored in recent years.

**Features**

- First monograph to explore using Mean-Risk Formulation in Supply Chain Risk
- Appropriate for practitioners and researchers alike
- Reviews existing research and then considers its extensions for future research

**Contents**

Mean-Risk Analysis: An Introduction - Mean-Risk Analysis of Single-Period Inventory Problems - Mean-Risk Analysis of Multi-Period Inventory Problems - Mean-Risk Analysis of Supply Chain Coordination Problems - Mean-Risk Analysis: Conclusion, Future Research and Extensions.

**Fields of interests**

Operations Research/Decision Theory; Operations Research, Management Science; Production/Logistics/Supply Chain Management

**Target groups**

Research

**Discount group**

Professional Non-Medical

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**Emergent Phenomena in Housing Markets**

Gentrification, Housing Search, Polarization

The housing market, like every market, is the product of thousands of interacting buyers and sellers driven by different interests. But unlike other markets, the housing market is able to profoundly transform the socioeconomic structure and the image of a city. Very often, changes in urban space are the result of the imperceptible operation of a multitude of micro-transformations which act with such great energy and decisiveness that they can transform the “DNA” of entire urban neighborhoods. These qualitative novelties, unpredictable and non-deductible on the basis of the previous properties, are defined emergences. Namely emergence means a ‘pattern formation’ characterized by a self-organizing process driven by non-linear dynamics. This book explores housing market emergence in light of three different phenomena: search for housing, social polarization, and gentrification. The book is divided into two parts. The first part presents contributions on modelling emergence of different phenomena, formalised in multi-agent systems.

**Features**

- Provides novel tools for understanding bottom-up phenomena in housing markets
- Presents both models and empirical findings on emergent phenomena
- Explains plausible mechanisms of regeneration and presents useful simulation tools

**Contents**


**Fields of interests**

Regional/Spatial Science; Landscape/Regional and Urban Planning; Social Structure, Social Inequality

**Target groups**

Research

**Discount group**

Professional Non-Medical
The Chinese Economy
Recent Trends and Policy Issues

This book takes readers on a unique journey across some of the most debated implications of the rise of the Chinese economy on the global scene.

Features
- Up-to-date original research
- Statistical tools for forecasting and for microeconomic analysis
- Broad range of key issues for the Chinese economy

Contents
- Technical Efficiency and Governance: The Case of China.
- Demographic Changes, Urbanization and Household Savings: Demographic Trends and Sustainability of the Old-Age Security System in China.
- Saving Rates of Urban Households in China: The „China Effect” on EU Exports to OECD Markets.
- A Focus on Italy.
- The Sophistication of China’s Exports, Imports and Intermediate Products.
- Environmental Goods Trade and Technology in China: The Emergence of the Chinese High-Income Class and Its Global Relevance.
- Trends in Private Consumption in China.
- Are Firms Exporting to China and India Different from Other Exports.

Fields of interests
Macroeconomics/Monetary Economics; Emerging Markets/Globalization; Microeconomics

Target groups
Research
Discount group
Professional Non-Medical

Available
2012. VI, 300 p. 62 illus., 53 in color. Hardcover
► approx. $139.00
ISBN 978-3-642-28637-7

Business Cycle Synchronisation and Economic Integration
New Evidence from the EU

This book offers the reader a state-of-the-art overview on theory and empirics of business cycle synchronisation, structural reform and economic integration. Focusing on the ongoing integration process in the euro area and the EU, it analyses the integration process that has taken place since the 1980s and which is marked by the advent of the euro and the substantial enlargement that resulted from the accession of 12 new Member States in East and Southern Europe.

Contents
1 Introduction.
- 2 Literature Review.
- 3 Descriptive Analysis.
- 4 Determinants of Business Cycle Synchronisation.
- 6 Summary and Policy Implications.
- 7 Appendix.

Fields of interests
European Integration; Macroeconomics/Monetary Economics; Economic Policy

Target groups
Research
Discount group
Professional Non-Medical

Available
2012. VIII, 258 p. 50 illus., 22 in color. (Contributions to Management Science) Hardcover
► $179.00
ISBN 978-3-7908-2857-3
A. Karasavvoglou, P. Polychronidou, Kavala Institute of Technology, Greece (Eds)

**Balkan and Eastern European Countries in the Midst of the Global Economic Crisis**

**Features**
- Up-to-date aspects of the Balkan countries' economies
- Special focus on the economic relations in Southeast Europe
- Interesting aspects for the EU enlargement

**Contents**

**Fields of interests**
International Economics; European Integration; Macroeconomics/Monetary Economics

**Target groups**
Research

**Discount group**
Professional Non-Medical

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J. Knieling, HCU Hamburg, Germany; W. Leal Filho, Hochschule für angewandte Wissenschaften, Hamburg, Germany (Eds)

**Climate Change Governance**

Climate change is a cause for concern both globally and locally. In order for it to be tackled holistically, its governance is an important topic needing scientific and practical consideration. Climate change governance is an emerging area, and one which is closely related to state and public administrative systems and the behaviour of private actors, including the business sector, as well as the civil society and non-governmental organisations. Questions of climate change governance deal both with mitigation and adaptation whilst at the same time trying to devise effective ways of managing the consequences of these measures across the different sectors. Many books have been produced on general matters related to climate change, such as climate modelling, temperature variations, sea level rise, but, to date, very few publications have addressed the political, economic and social elements of climate change and their links with governance. This book will address this gap. Furthermore, a particular feature of this book is that it not only presents different perspectives on climate change governance, but it also introduces theoretical approaches and brings these together with practical examples which show how main principles may be implemented in practice.

**Contents**

**Fields of interests**
Environmental Economics; Innovation/Technology Management; Sustainable Development

**Target groups**
Research

**Discount group**
Professional Non-Medical

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A. Mitra, Arup Mitra, Institute of Economic Growth, Delhi, India

**Insights into Inclusive Growth, Employment and Wellbeing in India**

What changes are occurring at the macro and the sectoral levels, how the labour market changes are taking place and what impact is felt on the low income households are some of the questions that the present volume focuses on. It begins by examining the sectoral composition of growth, revisiting the issues related to industry-services balance, and also brings out the spatial dimension of growth.

**Features**
- The book focuses on a number of inter-connected issues relating to pro-poor growth, e.g., while talking about the composition of growth and its relevance in the context of poverty reduction, it also analyses the causes of path differences and their impact on employment generation and levels of living
- It draws evidence both at the international level and at the national level
- It does not remain confined to the domain of pure economics only as it looks into issues on networks and upward mobility in explaining rural-to-urban migration and changes in well-being levels

**Contents**

**Fields of interests**
Economic Growth; Development Economics; Economic Policy

**Target groups**
Research

**Discount group**
Professional Non-Medical
S. Morichi, National Graduate Institute for Policy Studies (GRIPS), Tokyo, Japan; S. R. Acharya, Institute for Transport Policy Studies (ITPS), Tokyo, Japan (Eds)

**Transport Development in Asian Megacities**

**A New Perspective**

The rapid growth of the Asian urban population concentrates on a few large cities, turning them into giant megacities. Despite new theoretical insights into the benefits of megacities, the emerging Asia is facing a daunting challenge concerning the management of infrastructure and services in their megacities. The deteriorating urban mobility is the most difficult challenge with respect to the sharp increase in vehicle numbers and to inadequate and poorly managed road infrastructure. Public transport, a sustainable mode of mobility, is subjected to a vicious cycle of poor service, decreasing ridership, and lower investment. Despite various policy initiatives, the situation has not improved.

**Features**

- Examines characteristics of Asian megacities
- Provides new perspective and fresh insights into urban transport issues
- Proposes strategic solutions to transport challenges in developing megacities

**Contents**

- Specialties of Asian Megacities.
- Urban Transport Dynamics.
- Developing Urban Roads and Managing Motorization.
- Strengthening the Role of Public Transport.
- Coordinating Transport and Spatial Development.
- Mitigating Transport Emissions.
- Promoting Integrated Urban Transport System.
- Improving Institutions, Funding and Financing.

**Fields of interests**

Regional/Spatial Science; Civil Engineering; Sustainable Development

**Target groups**

Professional/practitioner

**Discount group**

Professional Non-Medical

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S. T. Snorrason, Lancaster University, UK

**Asymmetric Economic Integration**

**Size Characteristics of Economies, Trade Costs and Welfare**

This book investigates whether the effects of economic integration differ according to the size of countries. The analysis incorporates a classification of the size of countries, reflecting the key economic characteristics of economies in order to provide an appropriate benchmark for each size group in the empirical analysis of the effects of asymmetric economic integration. The formation or extension of Preferential Trade Areas (PTAs) leads to a reduction in trade costs. This poses a critical secondary question as to the extent to which trade costs differ according to the size of countries.

**Contents**

- Preface.
- 1 Introduction.
- 2 The Theory of Trade Agreements and Economic Integration, Size of Economies, Trade Costs and Economic Welfare.
- 3 An Empirical Analysis of the Size Characteristics of Economies.
- 5 A Cross-Section Analysis of Size Classification and the Effects of Preferential Trade Agreements.
- 6 A Panel data Analysis of Size Classification and the Effects of Preferential Trade Agreements.
- 7 Summary and Conclusions.
- 8 Appendices.
- References.
- Subject Index.

**Fields of interests**

International Economics; European Integration; Econometrics

**Target groups**

Research

**Discount group**

Professional Non-Medical

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A. C. Tsigkas, Democritus University of Thrace, Xanthi, Greece

**The Lean Enterprise**

**From the Mass Economy to the Economy of One**

The book is divided into three parts. Part I. The Rising economy of “one” gives an overview of what is changing in the social system of production, it refers to the weakening role of central planning and the rising power of individuation in the value creation chain. Part II. Lean Enterprise in theory refers to the principles of lean thinking, the transfer of lean philosophy from East to West and discusses the necessary adaptation to the Western way of thinking and practice. It presents a practice proven method for achieving a lean integrated demand and supply chain and analyses in detail the related implementation steps. Criteria for a successful displacement of a company to a lean state are presented. Part III.

**Features**

- Methodical step-by-step way to design and implement lean management, in production, in logistics in cost accounting and procurement and in Sales and Marketing
- Numerous case studies from a wide range of industrial fields help the reader to learn how to proceed from theory to practice quickly
- Presents a unique way of how to use the method for repositioning lean management when needed
- It offers a European way to lean management: a method-based implementation instead of principle and tools based Japanese philosophy

**Contents**

Part I: Rising of the economy of one.
Part II: Lean enterprise in theory.
Part III: Lean enterprise in practice.

**Fields of interests**

Industrial Organization; Industrial and Production Engineering; Engineering Design

**Target groups**

Graduate

**Discount group**

Professional Non-Medical

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Available

2012. 320 p. (Transportation Research, Economics and Policy) Hardcover

+ approx. $139.00

ISBN 978-3-642-29742-7

Available

2012. Approx. 250 p. 2 illus. (Contributions to Economics) Hardcover

+ approx. $139.00

ISBN 978-3-7908-2860-3

Available


+ approx. $99.00

ISBN 978-3-642-29401-3