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Social Exclusion

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Dynamical Systems: Theory And Applications

Proceedings of the Econophys-Kolkata II

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Università di Trieste, Dipartimento di Scienze Economiche e Statistiche

Empirical Evidence and Labour Policies

SAWYER PIERRE**Social Exclusion** BRILL

The primary goal of the book is to present the ideas and research findings of active researchers such as physicists, economists, mathematicians and financial engineers working in the field of "Econophysics," who have undertaken the task of modeling and analyzing systemic risk, network dynamics and other topics. Of primary interest in these studies is the aspect of systemic risk, which has long been identified as a potential scenario in which financial institutions trigger a dangerous contagion mechanism, spreading from the financial economy to the real economy. This type of risk, long confined to the monetary market, has spread considerably in the recent past, culminating in the subprime crisis of 2008. As such, understanding and controlling systemic risk has become an extremely important societal and economic challenge. The Econophys-Kolkata VI conference proceedings are dedicated to addressing a number of key issues involved. Several leading researchers in these fields report on their recent work and also review contemporary literature on the subject.

New Perspectives in Statistical Modeling and Data Analysis Springer Science & Business Media

This book presents two kinds of numerical methods for solving elliptic boundary value problems with singularities. Part I gives the boundary methods which use analytic and singular expansions, and Part II the nonconforming methods combining finite element methods (FEM) (or finite difference methods (FDM)) and singular (or analytic) expansions. The advantage of these methods over the standard FEM and FDM is that they can cope with complicated geometrical boundaries and boundary conditions as well as singularity. Therefore, accurate numerical solutions near singularities can be obtained. The description of methods, error bounds, stability analysis and numerical experiments are provided for the typical problems with angular, interface and infinity singularities. However, the approximate techniques and coupling strategy given can be applied to solving other PDE and engineering problems with singularities as well. This book is derived from the author's Ph. D. thesis which won the 1987 best doctoral dissertation award given by the Canadian Applied Mathematics Society.

Dynamical Systems: Theory And Applications Springer Science & Business Media

This book offers a practical guide to Agent Based economic modeling, adopting a "learning by doing" approach to help the reader master the fundamental tools needed to create and analyze Agent Based models. After providing them with a basic "toolkit" for Agent Based modeling, it present and discusses didactic models of real financial and economic systems in detail. While stressing the main features and advantages of the bottom-up perspective inherent to this approach, the book also highlights the logic and practical steps that characterize the model building procedure. A detailed description of the underlying codes, developed using R and C, is also provided. In addition, each didactic model is accompanied by exercises and applications designed to promote active learning on the part of the reader. Following the same approach, the book also presents several complementary tools required for the analysis and validation of the models, such as

sensitivity experiments, calibration exercises, economic network and statistical distributions analysis. By the end of the book, the reader will have gained a deeper understanding of the Agent Based methodology and be prepared to use the fundamental techniques required to start developing their own economic models. Accordingly, "Economics with Heterogeneous Interacting Agents" will be of particular interest to graduate and postgraduate students, as well as to academic institutions and lecturers interested in including an overview of the AB approach to economic modeling in their courses.

Proceedings of the Econophys-Kolkata II Springer Science & Business Media

The book analyses the role of private bankers who were pivotal in modernizing the economic and financial system of Italy in the XIX century. To achieve this they needed to interact with the international haute banque to organize and place the public loans and the large investments associated with the joint-stock companies. The theme of reputation, which is currently at the centre of the historiographical debate, is fundamental for the study of the private banker figures, whose professional success is linked to the limitless trust accorded to them by their circle of personal contacts. Historiography has studied the role of Italian bankers in the trade, credit and international finance during the modern age (XVI-XVIII centuries), but it has not analysed the banking system in the XIX century and its national and international relations. The case study of Banca Parodi of Genova fills the historiographical gap concerning the role of private bankers and banking institutions in Italy, highlighting the network between the Parodi family and the international haute banque; one of the most emblematic cases is the Rothschild family. The book presents a re-elaborates series of unpublished data, placing them at the disposal of the scientific community and analyses the role of private bankers in the development of Italian banking institutions in the XIX century to launch a scientific debate.

Economics with Heterogeneous Interacting Agents Springer Science & Business Media

This edited book focuses on the latest developments in classification, statistical learning, data analysis and related areas of data science, including statistical analysis of large datasets, big data analytics, time series clustering, integration of data from different sources, as well as social networks. It covers both methodological aspects as well as applications to a wide range of areas such as economics, marketing, education, social sciences, medicine, environmental sciences and the pharmaceutical industry. In addition, it describes the basic features of the software behind the data analysis results, and provides links to the corresponding codes and data sets where necessary. This book is intended for researchers and practitioners who are interested in the latest developments and applications in the field. The peer-reviewed contributions were presented at the 10th Scientific Meeting of the Classification and Data Analysis Group (CLADAG) of the Italian Statistical Society, held in Santa Margherita di Pula (Cagliari), Italy, October 8-10, 2015.

Strumenti finanziari a supporto dello sviluppo delle PMI Springer Science & Business Media

The book provides a panoramic approach to social exclusion, with emphasis on structural causes (education, health, accidents) and on short term causes connected with the crisis which started in 2008. The picture emerging, based on econometric analysis, is that the crisis has widened the risk of social exclusion, from the structural groups, like disabled people and formerly convicted people, to other groups, like the young, unemployed, low skilled workers and immigrants, in terms of income,

poverty, health, unemployment, transition between occupational statuses, participation, leading to a widening of socio-economic duality. It has also been stressed the relevance of definitions of socio-economic outcomes for the evaluation of the crisis, and their consequences to define interventions to fight socio-economic effects of the economic downturn. The adequacy of welfare policies to cope with social exclusion, especially during a crisis, has been called into question.

Recent Explanations and Cures IGI Global

This book focuses on the questions of how territorial differences in productivity levels and unemployment rates arise in the first place and why territorial differences in labor market performance persist over time. Unemployment divergence and unemployment club convergence have been touched on in a large number of works and have recently also been studied using spatial econometric analysis. In this book we aim to develop the debate to include several important new topics, such as: the reasons why structural changes in some sectors cause slumps in some regions but not in others; the extent to which agglomeration factors explain regional imbalances; the degree of convergence / divergence across EU countries and regions; the role of labor mobility in reducing / increasing regional labor market imbalances; the impact of EU and country-level regional policy in stimulating convergence and the (unsatisfactory) role of active labor market policy in stimulating labor supply in the weakest economic areas.

Statistical Methods for the Evaluation of University Systems University of Chicago Press

This book presents a collection of statistical methods and procedures to assess data coming from educational systems. The topics examined include: statistical methods for constructing composite indicators, applied measurements, assessment of educational systems, measurement of the performance of the students at Italian universities, and statistical modeling for questionnaire data. Other issues are the implications of introducing different assessment criteria and procedures to the Italian university system.

Tax Systems and Tax Reforms in Europe Dipartimento di scienze economiche e metodi quantitativi Dipartimento di Scienze Economiche e Statistiche dell'Università di Trieste Dipartimento di Scienze Economiche e Statistiche dell'Università di Trieste New Perspectives in Statistical Modeling and Data Analysis Proceedings of the 7th Conference of the Classification and Data Analysis Group of the Italian Statistical Society, Catania, September 9 - 11, 2009

Dipartimento di scienze economiche e metodi quantitativi Dipartimento di Scienze Economiche e Statistiche dell'Università di Trieste Dipartimento di Scienze Economiche e Statistiche dell'Università di Trieste New Perspectives in Statistical Modeling and Data Analysis Proceedings of the 7th Conference of the Classification and Data Analysis Group of the Italian Statistical Society, Catania, September 9 - 11, 2009 Springer Science & Business Media

Experiences from International Case Studies Springer Science & Business Media

In this book the theory of social production is systematically formulated in terms and concepts of classical political economy and neo-classical economics. In this way the subject becomes accessible not only to professional researchers in areas of the theory of production and economic growth, but also to the educated reader who is curious about the principles behind the functioning of a national economy. The book can be considered as an introduction for students with a background in physics, chemistry and engineering, who wish to specialize in economics. It is explained how the growth of

production is connected with achievements in technological consumption of labour and energy. The theory allows one to analyse the past and the present of the social production system and to build scripts of the future progress. The book could be interesting for energy specialists who are engaged in planning and analysing production and consumption of energy carriers and determining energy policy, and for economists who want to know how energy and technology are affecting economic growth.

Universitdi Trieste, Dipartimento di Scienze Economiche e Statistiche Springer Nature

This volume provides recent research results in data analysis, classification and multivariate statistics and highlights perspectives for new scientific developments within these areas. Particular attention is devoted to methodological issues in clustering, statistical modeling and data mining. The volume also contains significant contributions to a wide range of applications such as finance, marketing, and social sciences. The papers in this volume were first presented at the 7th Conference of the Classification and Data Analysis Group (ClADAG) of the Italian Statistical Society, held at the University of Catania, Italy.

Quaderni del Dipartimento di scienze economiche e matematico-statistiche Springer Science & Business Media

This book reviews the latest econophysics researches on the fluctuations in stock, forex and other markets. The statistical modeling of markets, using various agent-based game theoretical approaches, and their scaling analysis have been discussed. The leading researchers in these fields have reported on their recent work and also reviewed the contemporary literature. Some historical perspectives as well as some comments and debates on recent issues in econophysics research have also been included.

World Food Trends and the Future of Food Springer Nature

The combined efforts of the Physicists and the Economists in recent years in analyzing and modelling various dynamic phenomena in monetary and social systems have led to encouraging developments, generally classified under the title of Econophysics. These developments share a common ambition with the already established field of Quantitative Economics. This volume intends to offer the reader a glimpse of these two parallel initiatives by collecting review papers written by well-known experts in the respective research frontiers in one cover. This massive book presents a unique combination of research papers contributed almost equally by Physicists and Economists. Additional contributions from Computer Scientists and Mathematicians are also included in this volume. The book consists of two parts: the first part concentrates on Econophysics problems and the second part stresses on various quantitative issues in Economics. Both parts specialize on frontier problems in Games and Social Choices.

Econophysics of Agent-Based Models Springer Science & Business Media

Determining accurate shelf life data for foods is essential for assuring food quality and protecting consumers from the effects of degradation. With a proper balance of theory and practical examples, Shelf Life Assessment of Food presents the essential criteria and current methodologies for obtaining accurate and reliable shelf life dating. Defin

The Great Depression in Irving Fisher's Thought Springer

The growing capabilities in generating and collecting data has risen an urgent need of new

techniques and tools in order to analyze, classify and summarize statistical information, as well as to discover and characterize trends, and to automatically bag anomalies. This volume provides the latest advances in data analysis methods for multidimensional data which can present a complex structure: The book offers a selection of papers presented at the first Joint Meeting of the Société Francophone de Classification and the Classification and Data Analysis Group of the Italian Statistical Society. Special attention is paid to new methodological contributions from both the theoretical and the applicative point of views, in the fields of Clustering, Classification, Time Series Analysis, Multidimensional Data Analysis, Knowledge Discovery from Large Datasets, Spatial Statistics.

Pubblicazioni del Dipartimento di scienze economiche e finanziarie World Scientific

Following the Milan Universal Exposition, the scientific debate about food and nutrition has gained particular attention in 2015. As a result, this volume focuses on issues related to food safety, consumption, research and technology. Within the Hórisma project, funded by the University of Milano-Bicocca and the University of Milan, four young scholars investigated the possible developments of food production and consumption from different perspectives through a critical analysis on food trends in the international scenario. The main theme that links all the essays collected in this book is the belief that stimulating dialogue among different disciplines, as well as promoting an integrated and multidisciplinary approach, is crucial to face all the issues concerning food and its connections to law, technology, society, and science.

Complexity Hints for Economic Policy Ledizioni

The last decade has seen important changes taking place in the tax regimes of many European countries. A comprehensive picture of what is happening in European fiscal systems has not been easy to find - until now. This impressive book featuring contributions from leading scholars, will be of great interest not only to academics but also to those involved in the financial sectors across the world.

Short and Long Term Causes and Consequences Springer Science & Business Media

Il progetto di ricerca Interreg IV Italia-Austria intitolato "Strumenti Finanziari a Supporto dello sviluppo delle P.M.I." ha come obiettivo quello di individuare i fabbisogni finanziari rilevanti delle PMI

nelle aree di programma e i profili di soddisfa

Econophysics of Systemic Risk and Network Dynamics Springer

The primary goal of this book is to present the research findings and conclusions of physicists, economists, mathematicians and financial engineers working in the field of "Econophysics" who have undertaken agent-based modelling, comparison with empirical studies and related investigations. Most standard economic models assume the existence of the representative agent, who is "perfectly rational" and applies the utility maximization principle when taking action. One reason for this is the desire to keep models mathematically tractable: no tools are available to economists for solving non-linear models of heterogeneous adaptive agents without explicit optimization. In contrast, multi-agent models, which originated from statistical physics considerations, allow us to go beyond the prototype theories of traditional economics involving the representative agent. This book is based on the Econophys-Kolkata VII Workshop, at which many such modelling efforts were presented. In the book, leading researchers in their fields report on their latest work, consider recent developments and review the contemporary literature.

Springer Science & Business Media

The foreign exchange market is the largest, fastest-growing financial market in the world. Yet conventional macroeconomic approaches do not explain why people trade foreign exchange. At the same time, they fail to explain the short-run determinants of the exchange rate. These nine innovative essays use a microstructure approach to analyze the workings of the foreign exchange market, with special emphasis on institutional aspects and the actual behavior of market participants. They examine the volume of transactions, heterogeneity of traders, the time of day and location of trading, the bid-ask spread, and the high level of exchange rate volatility that has puzzled many observers. They also consider the structure of the market, including such issues as nontransparency, asymmetric information, liquidity trading, the use of automated brokers, the relationship between spot and derivative markets, and the importance of systemic risk in the market. This timely volume will be essential reading for anyone interested in the economics of international finance.

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