e-Research Collaboration

Theory, Techniques and Challenges

The shift of paradigm from collaborations of convenience to collaborations of opportunity using Web 2.0 technologies is called Research 2.0. Research 2.0 is becoming a critical component in research management and collaboration and has led to the creation of new research networks such as MyNetResearch.

Many universities are familiar with the concepts of Web 2.0 including Wikis, blogs, and social networking tools, but have not implemented these tools holistically in a research setting. Unfortunately, many researchers have difficulties either to understand how to implement the change in paradigm associated with online collaboration, or else cannot convince the university administrators of the value of a research cyberinfrastructure. Universities are under increasing pressure to embrace the Research 2.0 paradigm in order to stay competitive, attract the best students and faculty, publish, apply for research grants, and empower their stakeholders in all aspects.

Features
► Describes how Web 2.0 technologies can help researchers collaborate ► With examples of web portals include MyNetResearch ► Discusses aspects of research management, research awareness, research networking, and research tools, which is critical for the success of the 21st century researcher

Contents

Fields of interest
Economics/Management Science, general

Target groups
Research

Type of publication
Monograph

Designing Public Policies
An Approach Based on Multi-Criteria Analysis and Computable General Equilibrium Modeling

This book presents a methodological approach for the joint design of economic and environmental policies. The starting point is the observation that, in practice, policy makers do not usually have a well-defined objective, but they are typically concerned about a number of economic and environmental indicators that conflict with each other. In view of this, policy making is addressed by combining two separate analytical approaches: multiple criteria decision making (MCDM) and computable general equilibrium (CGE) modeling. The aim is to come up with a methodological framework for policy design which is both operational and consistent with economic theory. In short, this book offers a unified view of this novel approach, paying special attention to the connections between economic and environmental objectives. The methodological foundations are presented as well as some real applications that illustrate the pragmatic value of the theoretical proposal.

Features
► New approach of combining multi-criteria decision making (MCDM) with computable general equilibrium modelling ► Pragmatic methods addressing policy making in a realistic and operational way ► Didactic application to real situations  ► Taking into account economic and environmental issues

Fields of interest
Economic Policy; Operations Research/Decision Theory; Environmental Economics

Target groups
Research

Type of publication
Monograph

The Economic Impact of Public Support to Agriculture
An International Perspective

The recent reforms of the Common Agricultural Policy (CAP) of the European Union extend in a significant way the “decoupling” process started some ten years earlier. By adopting the Single Farm Payment (SFP) scheme only limited support for agriculture is tied to current production decisions. This is also true of U.S. farm policy. The reform act of 1996 introduced greater planting flexibility, shifted some support to direct payments, and eliminated the authority for acreage reduction programs. The 2002 and 2008 Acts retained these features. However, they added countercyclical components to direct payments based on market prices and historic production, and allowed for updating of base acreage underlying direct payments. These steps arguably reintroduced ties between support and production decisions. This volume explores the economic implications of these recent changes in the design of agricultural policies for the economic performance of the sector in the European Union and the United States.

Features
► Brings together insights from experts in economics, international trade, agricultural policy, and statistics to assess the current state of the agricultural and bio-fuels sector  ► Analyzes recent agricultural policy reforms in the U.S. and the EU, with respect to both research and practical/policy making implications  ► The first book to apply rigorous concepts of productivity and efficiency analysis to agriculture policy

Fields of interest
Agricultural Economics; Economic Policy

Target groups
Research

Type of publication
Monograph

Due August 2010

2010. 280 p. Hardcover
► approx. € 99.95 | £90.00
► approx. € (D) 106.95 | € (A) 109.95 | sFr 155.50
ISBN 978-3-642-12256-9
Fundamentals of Traffic Simulation

The increasing power of computer technologies, the evolution of software engineering and the advent of Intelligent Transport Systems (ITS) worldwide have helped make traffic simulation one of the most used approaches for traffic analysis in support of the design and evaluation of traffic systems. The ability of traffic simulation software to emulate the time variability of traffic phenomena makes it a uniquely useful tool for capturing the complexity of traffic systems. While a wide variety of simulation software is available, no one book has presented a unified treatment of the subject.

Fundamentals of Traffic Simulation is the first book to provide practitioners and researchers with a comprehensive treatment of the state of the art of traffic simulation. Leading researchers worldwide provide up-to-date information on: Simulation as a well established and grounded OR technique and its specificities when applied to traffic systems.

Features
- Provides the first book-length treatment of traffic simulation.
- Brings the field completely up to date.
- Covers microscopic, mesoscopic, and macroscopic traffic modeling

Contents

Fields of interest
- Operations Research/Decision Theory; Operations Research, Management Science; Regional/Spatial Science

Target groups
- Professional/practitioner

Type of publication
- Contributed volume

Due August 2010

- approx. € 139,95 | £126.50
- approx. * € (D) 149,75 | € (A) 153,94 | sFr 217,50

Innovation Policy and Governance in High-Tech Industries

The Complexity of Coordination

The book examines the conditions for successful high-technology policy from theoretical and empirical perspectives. It enhances the predominant national systems of innovation approach to innovation policy with concepts based on new developments in the governance of complex systems and processes. The conceptual framework of complex networks and systems is used to examine national policy approaches in countries that have created environments conducive to high-technology industries as well as individual high-technology sectors, such as biotechnology, alternative energy, and aerospace. Theoretical and empirical contributions are synthesised into lessons for high-tech policy and further research.

Features
- Overview of public policies designed to support high-tech industries such as biotechnology, photovoltaics, aeronautics
- Conceptual framework based on complex adaptive systems theory
- Comparative analysis of policies in Europe and the US

From the contents

Fields of interest
- R & D/Technology Policy; Technology Management; Political Science

Target groups
- Research

Type of publication
- Contributed volume

Due June 2010

2010. 350 p. Hardcover
- approx. € 99,95 | £90.00
- approx. * € (D) 106,95 | € (A) 109,95 | sFr 155,50
ISBN 978-1-4419-5611-8

Restructuring Electricity Markets

Economics and Policy Challenges

With the global demand for energy skyrocketing, over the past twenty years many countries have restructured their electric power systems (EPSs), typically moving from a regulated monopoly to a competitive market structure. The results of these reforms vary significantly from country to country depending on the market organization model and national conditions. This book examines the restructuring in both developed and developing nations, with particular focus on the United States, Canada and Russia, and addresses the problems arising from these transitions. The book also contains a comprehensive analysis of different electricity market models and their compatibility with the properties of electric power systems and country conditions. As the most thorough and up to date analysis of the theory and practical experience of electricity deregulation, this book is a must-read for academics, students and researchers with an interest in electric power industry restructuring.

Features
- The book examines the outcomes of energy restructuring in a variety of countries, including the United States, Canada and Russia
- Issues of energy and resource management are of increasing importance and timeliness
- The author has been a major participant in the Russian power industry’s restructuring process

From the contents

Fields of interest
- Economic Policy; R & D/Technology Policy; Power Engineering

Target groups
- Research

Type of publication
- Monograph

Due September 2010

2010. 300 p. 30 illus. Hardcover
- approx. € 103,00 | £92.50
- approx. * € (D) 110,21 | € (A) 113,30 | sFr 160,00
ISBN 978-1-4419-5611-8
M. Iyoda, St. Andrew’s University (Momoyama Gakuin University), Osaka, Japan

Postwar Japanese Economy
Lessons of Economic Growth and the Bubble Economy

Since the end of World War II, the Japanese economy has seen rapid changes and remarkable progress. It has also experienced a bubble economy and period of prolonged stagnation. The book seeks to address three major questions: What kind of changes have taken place in the postwar years? In what sense has there been progress? What lessons can be drawn from the experiences? The book is organized as follows: It begins with an overview of the postwar Japanese economy, using data to highlight historical changes. The four major economic issues in the postwar Japanese economy (economic restoration, rapid economic growth, the bubble economy and current topics) are addressed, with particular focus on the meaning of economic growth and the bubble economy. The next chapters examine the important economic issues for Japan related to a welfare-oriented society, including income distribution, asset distribution, and the relative share of income.

Features
- Gives the reader an overview of the Japanese economy during the entire postwar period
- Uses statistical tables and charts to illustrate current and historical economic issues
- Addresses the problems of the bubble economy and proposes solutions with emphasis on quality of life

From the contents

Fields of interest
International Economics; Economic Policy; History

Target groups
Research

Type of publication
Monograph

Due July 2010

F. Keereman, Filip Keeremans, European Commission Brussels, Belgium; I. Szekely, Istvan Szekely, European Commission Brussels, Belgium (Eds.)

Five Years of an Enlarged EU
A Positive Sum Game

This book analyzes the economic performance of the EU in the first five years after its largest expansion in 2004. Accession and integration were expected to foster growth and convergence among the new Member States through intensified trade, foreign direct investment, financial deepening and the adoption of the EU’s institutional framework. With the benefit of five years experience, this book brings together experts from academia and think-tanks to assess the driving forces of economic growth and real convergence. The question whether the EU has made a difference in terms of growth is studied thoroughly from various angles, including that of country-specific and sector-specific analysis. It is shown that while the enlargement has been a success story overall, growth and catching-up cannot be taken for granted and the importance of economic policy remains undiminished.

Features
- Numerous charts and tables
- Insights into the driving forces of integration and growth after the 2004 EU enlargement
- With contributions by international experts

Contents

Fields of interest
European Integration; Economic Policy

Target groups
Research

Type of publication
Contributed volume

Due June 2010

D. M. Kilgour, Wilfred Laurier University, Waterloo, Canada; C. Eden, University of Strathclyde, Glasgow, UK (Eds.)

Handbook of Group Decision and Negotiation

The field of Group Decision and Negotiation can be described as the empirical, formal, computational, and strategic analysis of group decision-making and negotiation, especially from the points of view of Management Science and Operations Research. Group Decision and Negotiation crosses many traditional disciplinary boundaries, and has connections to business administration and business strategy, management science, systems engineering, computer science, mathematics, and law, as well as economics, psychology, and other social sciences.

The Handbook of Group Decision and Negotiation is intended to become the major reference in the field. The only current references are the highly successful journal Group Decision and Negotiation, as well as the books of the Advances in Group Decision and Negotiation series, and a few other journals. Researchers, students, and practitioners in this growing field sorely need a good general reference.

Features
- The Handbook of Group Decision and Negotiation is the only reference work in the field
- Provides an up-to-date comprehensive source on the new approaches to the idea of negotiation, group decision-making, and collaboration, utilizing electronic and other systems, including the effects of such systems on traditional meetings

Fields of interest
Operations Research/Decision Theory; Game Theory, Economics, Social and Behav. Sciences; Artificial Intelligence (incl. Robotics)

Target groups
Research

Type of publication
Handbook

Due June 2010

2010. 600 p. (Advances in Group Decision and Negotiation, Volume 4) Hardcover
- approx. € 169,95 | £153.00
- approx. € 181,85 | £163.95 | sFr 264,00

Business and Economics

Due June 2010

2010. 220 p. Hardcover
- approx. € 99,95 | £90.00
- approx. € 106,95 | £99,95 | sFr 155,50

Business and Economics

Due June 2010

2010. 150 p. 108 illus., 54 in color. Hardcover
- approx. € 89,95 | £79.50
- approx. € 98,95 | £79.50
ISBN 978-1-4419-6331-4

Business and Economics
Handbook on Approval Voting

Under Approval Voting, voters can “approve” as many candidates as they want, and the candidate approved by the largest number of voters is elected. Since the publication of the seminal book written by Steven Brams and Peter Fishburn in 1983, a variety of theoretical and empirical works have enhanced our understanding of this method. The behavior of voters in such elections has been observed both in the laboratory and in the field; social choice theorists have analyzed the method from the axiomatic point of view; game theory and computer science have been used to scrutinize various strategic aspects; and political scientists have considered the structure of electoral competition entailed by Approval Voting. This book surveys this large body of knowledge through a collection of contributions written by specialists of the various disciplines involved.

Features
- Surveys all major developments in Approval Voting since the publication of the seminal book by Brams/Fishburn (1983)
- Combination of theoretical and empirical results
- Written by specialists of the various disciplines involved

Contents

Fields of interest
Economic Theory; Public Finance & Economics; Political Science

Target groups
Research

Type of publication
Monograph

Residential Location Choice
Models and Applications

The effective planning of residential location choices is one of the great challenges of contemporary societies and requires forecasting capabilities and the consideration of complex interdependencies which can only be handled by complex computer models. This book presents a range of approaches used to model residential locations within the context of developing land-use and transport models. These approaches illustrate the range of choices that modelers have to make in order to represent residential location choice. The models presented in this book represent the state-of-the-art and are valuable both as key building blocks for general urban models, and as representative examples of complexity science.

Features
- State-of-the-art models in residential location choice
- Peer-reviewed contributions
- Written by leading experts in the field

From the contents

Fields of interest
Regional/Spatial Science; Human Geography; Economic Geography

Target groups
Research

Type of publication
Contributed volume

The Saudi Arabian Economy
Policies, Achievements, and Challenges, 2nd Edition

The Saudi Arabian economy has changed almost beyond recognition since the oil boom days of the 1980s, and the Kingdom itself has changed too economically, socially, and demographically. In the second edition of The Saudi Arabian Economy, Mohamed Ramady uses several overlapping themes to establish and develop a framework for studying the fundamental challenges to the Saudi economy. Particular attention is paid to the benefits of short-term planning and long-term diversification intended to shield the economy from potentially destabilizing oil price fluctuations and the pace and diversity of domestic reforms. The author examines the core strengths and evolution of various financial institutions and the Saudi stock market in the face of globalization, before analyzing the private sector in detail.

Features
- Broadest, most up-to-date text on the Saudi economy
- Pays particular attention to sensitive structural social issues, finance and capital market development, technology transfer, the effect of gender issues on development, and globalization
- Accessible to undergraduates
- Pedagogy includes graphs; tables; end-of-chapter summaries, questions, and discussion points; chapter objectives; and discussion boxes

From the contents

Fields of interest
Macroeconomics; Development Economics; Regional/Spatial Science

Target groups
Upper undergraduate

Type of publication
Graduate/Advanced undergraduate textbook
New Series

Sports Economics, Management and Policy

Series editor: D. Coates

The aim of this series is to provide academics, students, sports business executives, and policy makers with information and analysis on the cutting edge of sports economics, sport management, and public policy on sporting issues.

Volumes in this series can focus on individual sports, issues that cut across sports, issues unique to professional sports, or topics in amateur sports. Each volume will provide rigorous analysis with the purpose of advancing understanding of the sport and the sport business, improving decision making within the sport business and regarding policy toward sports, or both. Volumes may include any or all of the following: theoretical modelling and analysis, empirical investigations, or description and interpretation of institutions, policies, regulations, and law.

J. Ruggiero, University of Dayton, OH, USA

Frontiers in Major League Baseball
Nonparametric Analysis of Performance Using Data Envelopment Analysis

This book focuses on the application of Data Envelopment Analysis (DEA) to Major League Baseball (MLB). DEA is a nonparametric linear programming model that is used across academic disciplines. In sports economics, authors have applied the technique primarily to assess team and/or managerial efficiency. The basis for performance analysis is economic production theory, where it is assumed that baseball can be viewed as a production process whereby inputs (player quality measures) are transformed into outputs (wins, attendance). The primary advantage that DEA has over more traditional regression based approaches is the ability to handle multiple inputs and multiple outputs. Further, the approach is nonparametric and hence, does not require a priori specification of the production function. The book develops the theory of DEA in the context of a production environment. A focal point is the assessment of performance of team managers using recent MLB data.

Features
- Addresses current issues in baseball including steroid use and labor market outcomes
- Provides a thorough theoretical treatment of data envelopment analysis with a specific application to Major League Baseball production
- Can be applied to other sports and production processes

Fields of interest
Economic Policy; Management/Business for Professionals; Economics general

Target groups
Research

Type of publication
Monograph

M. Sarstedt, Ludwig-Maximilians-University, Munich, Germany; E. Mooi, VU University Amsterdam, The Netherlands

A Concise Guide to Market Research
The Process, Data, and Methods Using IBM SPSS Statistics

This accessible, practice-oriented and compact text provides a hands-on introduction to the principles of market research. Using the market research process as a framework, the authors explain how to collect and describe the necessary data and present the most important and frequently used quantitative analysis techniques, such as ANOVA, regression analysis, factor analysis, and cluster analysis. For each technique, theoretical choices a market researcher has to make and how these are translated into actions in IBM SPSS Statistics are explained. This includes a discussion what the outputs mean and how they should be interpreted from a market research perspective. Each chapter concludes with a case study that illustrates the process based on real-world data.

A comprehensive web appendix with additional analysis techniques, datasets, video files and case studies is included. Several mobile tags in the text allow readers to quickly browse related web content using a mobile device.

Features
- Compact, hands-on and step-by-step introduction to quantitative market research techniques
- Presents the most important techniques and shows how to translate theoretical choices into SPSS and how to analyze the output
- Case study at the end of each chapter
- Innovative supplementary online concept, including mobile tags, sample datasets and additional cases

Fields of interest
Marketing; Management/Business for Professionals; Statistics for Business/Economics/Mathematical Finance/Insurance

Target groups
Upper undergraduate

Type of publication
Undergraduate textbook
M. Schulmerich, State Street Global Advisors (SSgA), Munich, Germany

**Real Options Valuation**

The Importance of Interest Rate Modelling in Theory and Practice

This book analyzes real options valuation for non-constant versus constant interest rates using simulations and historical backtesting. It provides a systematic analysis and compares real options valuation using constant interest rates and the implied forward rates with methods that simulate interest rates stochastically. Real options are combined with various pricing tools and stochastic term structure models like the Vasicek, Cox-Ingersoll-Ross, Ho-Lee, and Hull-White one-factor and two-factor models. All necessary theory is provided in the book. All results are explained in detail and rules are derived for application in Corporate Finance practice. The major change in this second edition is the expanded number of tested scenarios. The second edition contains an expanded number of tested scenarios covering the time period of the financial crisis 2008, one of the worst stock market crashes in history. The findings confirm the results provided in the first edition.

**Features**
- Systematic analysis based on simulation and historical background
- Necessary theory is provided
- New: covering the time period of the financial crisis 2008

**Contents**
- Introduction.
- Real Options in Theory and Practice.
- Stochastic Models for the Term Structure of Interest Rates.
- Real Options Valuation Tools in Corporate Finance.
- Analysis of Various Real Options in Simulations and Backtesting.
- Summary and Outlook.

**Fields of interest**
- Financial Economics; Finance /Banking; Quantitative Finance

**Target groups**
- Research

**Type of publication**
- Monograph

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H. von Stackelberg, Heidelberg, Germany

**Market Structure and Equilibrium**

Translated by: D. Bazin, University of Nice Sophia Antipolis, Nice, France; R. Hill, Rowland Hill, Interlink, France; L. Urch, Lynn Urch, Interlink, France

In his book “Marktform und Gleichgewicht”, published initially in 1934, Heinrich von Stackelberg presented his groundbreaking leadership model of firm competition. In a work of great originality and richness, he described and analyzed a market situation in which the leader firm moves first and the follower firms then move sequentially. This game-theoretic model, now widely known as Stackelberg competition, has had tremendous impact on the theory of the firm and economic analysis in general, and has been applied to study decision-making in various fields of business. As the first translation of von Stackelberg’s book into English, this volume makes his classic work available in its original form to an English-speaking audience for the very first time.

**Features**
- High-quality translation of Stackelberg’s classic book
- Stackelberg’s groundbreaking work made available to an English-speaking audience for the first time

**Contents**
- Comments on the Translation.
- 1 Stating the Economic Problem and Basic Principles.
- 2 General Analysis of Typical Market Structures.
- 3 Analysis of the Relationship between Dual Markets and Multiple Markets.
- 4 Dyopolistic Market Share Ranking.
- 5 Landmark History of Economic Thought.
- 6 Market Structure and Economic Policy.
- Mathematical Appendix.
- Bibliography.

**Fields of interest**
- Game Theory/Mathematical Methods; Game Theory, Economics, Social and Behavioral Sciences

**Target groups**
- Research

**Type of publication**
- Monograph

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W. Vandekerckhove, J. Leys, K. Alm, B. Scholtens, S. Signori, H. Schäfer (Eds.)

**Responsible Investing in Times of Turmoil**

The Future of SRI

The SRI phenomenon is said to be entering the mainstream of financial intermediation. From a fairly marginal practice promoted or campaigned for by NGO's and at odds with financial practice and orthodoxy it grew into well formulated policy adopted by a wide range of investors. Academic literature on SRI has also boomed on the assumption that mainstreaming is taking place. However, little thinking has been carried out – let alone that this has resulted in writings – on questions specifically arising from this alleged ‘mainstreaming’. This book, addressed to those with a scholarly or practitioner’s interest in SRI, starts filling this neglected dimension. Today, one cannot ignore the difficulties of main stream financing. The financial spheres are trembling globally in one of the worst crises since the 1930’s. As a response to the crisis, the intermediation of “financial responsibility” will undoubtedly be the subject of new regulation and scrutinizing.

**Features**
- Scrutinises and reflects on SRI in the context of the current financial crisis
- Critically assesses different understandings of SRI as these understandings come at play on the market
- Explicitly tackles epistemological, ethical and policy problems, which will arise or are already arising as mainstreaming SRI faces financial meltdowns

**From the contents**
- Introduction – rationale and overview of the book (by the editors).
- Part 1 – Knowledge about SRI (3 to 5 chapters covering questions like).
- Part 2 – Lessons from SRI (3 to 5 chapters covering questions like).
- Part 3 – Ethics of SRI (3 to 5 chapters covering questions like).
- Part 4 – Politics and SRI (3 to 5 chapters covering questions like).
- Part 5 – Global Worries for SRI

**Fields of interest**
- Finance /Banking; Ethics; Financial Economics

**Target groups**
- Research

**Type of publication**
- Contributed volume