Valery A. Kalyagin Panos M. Pardalos Themistocles M. Rassias *Editors*

Network Models in Economics and Finance



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Network Models in Economics and Finance Valery A. Kalyagin, Panos M. Pardalos, Themistocles M. Rassias, 2014-09-23 Using network models to investigate the interconnectivity in modern economic systems allows researchers to better understand and explain some economic phenomena This volume presents contributions by known experts and active researchers in economic and financial network modeling Readers are provided with an understanding of the latest advances in network analysis as applied to economics finance corporate governance and investments Moreover recent advances in market network analysis that focus on influential techniques for market graph analysis are also examined Young researchers will find this volume particularly useful in facilitating their introduction to this new and fascinating field Professionals in economics financial management various technologies and network analysis will find the network models presented in this book beneficial in analyzing the interconnectivity in modern economic systems The Oxford Handbook of Computational Economics and Finance Shu-Heng Chen, Mak Kaboudan, Ye-Rong Du, 2018-01-12 The Oxford Handbook of Computational Economics and Finance provides a survey of both the foundations of and recent advances in the frontiers of analysis and action It is both historically and interdisciplinarily rich and also tightly connected to the rise of digital society It begins with the conventional view of computational economics including recent algorithmic development in computing rational expectations volatility and general equilibrium It then moves from traditional computing in economics and finance to recent developments in natural computing including applications of nature inspired intelligence genetic programming swarm intelligence and fuzzy logic Also examined are recent developments of network and agent based computing in economics How these approaches are applied is examined in chapters on such subjects as trading robots and automated markets The last part deals with the epistemology of simulation in its trinity form with the integration of simulation computation and dynamics Distinctive is the focus on natural computationalism and the examination of the implications of intelligent machines for the future of computational economics and finance Not merely individual robots but whole integrated systems are extending their immigration to the world of Homo sapiens or symbiogenesis **Agent-Based Computational Economics** Shu-Heng Chen, 2017-09-19 This book aims to answer two questions that are fundamental to the study of agent based economic models what is agent based computational economics and why do we need agent based economic modelling of economy This book provides a review of the development of agent based computational economics ACE from a perspective on how artificial economic agents are designed under the influences of complex sciences experimental economics artificial intelligence evolutionary biology psychology anthropology and neuroscience This book begins with a historical review of ACE by tracing its origins From a modelling viewpoint ACE brings truly decentralized procedures into market analysis from a single market to the whole economy. This book also reviews how experimental economics and artificial intelligence have shaped the development of ACE For the former the book discusses how ACE models can be used to analyse the economic

consequences of cognitive capacity personality and cultural inheritance For the latter the book covers the various tools used to construct artificial adaptive agents including reinforcement learning fuzzy decision rules neural networks and evolutionary computation This book will be of interest to graduate students researching computational economics experimental economics behavioural economics and research methodology Banking, Finance, and Accounting: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2014-07-31 With the global economy still in recovery it is more important than ever for individuals and organizations to be aware of their money and its potential for both depreciation and growth Banking Finance and Accounting Concepts Methodologies Tools and Applications investigates recent advances and undertakings in the financial industry to better equip all members of the world economy with the tools and insights needed to weather any shift in the economic climate With chapters on topics ranging from investment portfolios to credit unions this multi volume reference source will serve as a crucial resource for managers investors brokers and all others within the banking industry Deep Learning Techniques and Optimization Strategies in Big Data Analytics Thomas, J. Joshua, Karagoz, Pinar, Ahamed, B. Bazeer, Vasant, Pandian, 2019-11-29 Many approaches have sprouted from artificial intelligence AI and produced major breakthroughs in the computer science and engineering industries Deep learning is a method that is transforming the world of data and analytics Optimization of this new approach is still unclear however and there s a need for research on the various applications and techniques of deep learning in the field of computing Deep Learning Techniques and Optimization Strategies in Big Data Analytics is a collection of innovative research on the methods and applications of deep learning strategies in the fields of computer science and information systems While highlighting topics including data integration computational modeling and scheduling systems this book is ideally designed for engineers IT specialists data analysts data scientists engineers researchers academicians and students seeking current research on deep learning methods and its application in the digital industry **Meta-Heuristics Optimization** Algorithms in Engineering, Business, Economics, and Finance Vasant, Pandian M., 2012-09-30 Optimization techniques have developed into a significant area concerning industrial economics business and financial systems With the development of engineering and financial systems modern optimization has played an important role in service centered operations and as such has attracted more attention to this field Meta heuristic hybrid optimization is a newly development mathematical framework based optimization technique Designed by logicians engineers analysts and many more this technique aims to study the complexity of algorithms and problems Meta Heuristics Optimization Algorithms in Engineering Business Economics and Finance explores the emerging study of meta heuristics optimization algorithms and methods and their role in innovated real world practical applications This book is a collection of research on the areas of meta heuristics optimization algorithms in engineering business economics and finance and aims to be a comprehensive reference for decision makers managers engineers researchers scientists financiers and economists as well as industrialists Handbook of

Computational Econometrics David A. Belsley, Erricos Kontoghiorghes, 2009-08-18 Handbook of Computational Econometrics examines the state of the art of computational econometrics and provides exemplary studies dealing with computational issues arising from a wide spectrum of econometric fields including such topics as bootstrapping the evaluation of econometric software and algorithms for control optimization and estimation Each topic is fully introduced before proceeding to a more in depth examination of the relevant methodologies and valuable illustrations This book Provides self contained treatments of issues in computational econometrics with illustrations and invaluable bibliographies Brings together contributions from leading researchers Develops the techniques needed to carry out computational econometrics Features network studies non parametric estimation optimization techniques Bayesian estimation and inference testing methods time series analysis linear and nonlinear methods VAR analysis bootstrapping developments signal extraction software history and evaluation This book will appeal to econometricians financial statisticians econometric researchers and Deep Learning in Engineering, Energy students of econometrics at both graduate and advanced undergraduate levels and Finance Vivek S. Sharma, Shubham Mahajan, Anand Nayyar, Amit Kant Pandit, 2024-12-26 Unlock the transformative potential of deep learning in your professional and academic endeavors with Deep Learning in Engineering Energy and Finance Principals and Applications This comprehensive guide seamlessly bridges the gap between theoretical concepts and practical implementations providing you with the knowledge and tools to revolutionize industries and drive innovation Delve into real world applications and cutting edge research that showcase how deep learning is redefining engineering processes optimizing energy systems and reshaping financial markets This book Explores deep learning applications across engineering energy and finance highlighting diverse use cases and industry specific challenges Discovers how deep learning is driving breakthroughs in predictive maintenance energy optimization algorithmic trading and risk management Illustrates all the concepts connected to Deep Learning from head and heart with real time practical examples and case studies Stresses on skills needed to tackle future challenges with a focus on emerging deep learning technologies oriented towards Solar Energy SOM's Stock Market Speech Technology and Many more Whether you're a student eager to explore the latest advancements or a seasoned R D professional seeking to enhance your skill set this book offers invaluable insights and practical guidance to elevate your expertise Proceedings of the XIV INTERNATIONAL SYMPOSIUM SYMORG 2014 Aleksandar Marković, Slađana Barjaktarović Rakočević, 2014-06-05 Handbooks in Operations Research and Management Science: <u>Financial Engineering</u> John R. Birge, Vadim Linetsky, 2007-11-16 The remarkable growth of financial markets over the past decades has been accompanied by an equally remarkable explosion in financial engineering the interdisciplinary field focusing on applications of mathematical and statistical modeling and computational technology to problems in the financial services industry. The goals of financial engineering research are to develop empirically realistic stochastic models describing dynamics of financial risk variables such as asset prices foreign exchange rates and interest rates and to develop analytical

computational and statistical methods and tools to implement the models and employ them to design and evaluate financial products and processes to manage risk and to meet financial goals This handbook describes the latest developments in this rapidly evolving field in the areas of modeling and pricing financial derivatives building models of interest rates and credit risk pricing and hedging in incomplete markets risk management and portfolio optimization Leading researchers in each of these areas provide their perspective on the state of the art in terms of analysis computation and practical relevance The authors describe essential results to date fundamental methods and tools as well as new views of the existing literature opportunities and challenges for future research Decision Sciences Raghu Nandan Sengupta, Aparna Gupta, Joydeep Dutta, 2016-11-30 This handbook is an endeavour to cover many current relevant and essential topics related to decision sciences in a scientific manner Using this handbook graduate students researchers as well as practitioners from engineering statistics sociology economics etc will find a new and refreshing paradigm shift as to how these topics can be put to use beneficially Starting from the basics to advanced concepts authors hope to make the readers well aware of the different theoretical and practical ideas which are the focus of study in decision sciences nowadays It includes an excellent bibliography reference journal list information about a variety of datasets illustrated pseudo codes and discussion of future trends in research Covering topics ranging from optimization networks and games multi objective optimization inventory theory statistical methods artificial neural networks times series analysis simulation modeling decision support system data envelopment analysis queueing theory etc this reference book is an attempt to make this area more meaningful for varied readers Noteworthy features of this handbook are in depth coverage of different topics solved practical examples unique datasets for a variety of examples in the areas of decision sciences in depth analysis of problems through colored charts 3D diagrams and discussions about software Game Theory in Wireless and Communication Networks Zhu Han, 2012 This unified 2001 treatment of game theory focuses on finding state of the art solutions to issues surrounding the next generation of wireless and communications networks The key results and tools of game theory are covered as are various real world technologies and a wide range of techniques for modeling design and analysis **Business Applications and** Computational Intelligence Kevin E. Voges, Nigel Pope, 2006-01-01 This book deals with the computational intelligence field particularly business applications adopting computational intelligence techniques Provided by publisher Advances in Business and Management Forecasting Kenneth D. Lawrence, Ronald K. Klimberg, 2019-09-06 Volume 13 of Advances in Business and Management Forecasting presents state of the art studies in the application of forecasting methodologies to areas such as sales forecasting retailing service contracts bankruptcy prediction executive compensation and call center staffing Optimization Techniques for Problem Solving in Uncertainty Tilahun, Surafel Luleseged, Ngnotchouye, Jean Medard T., 2018-06-22 When it comes to optimization techniques in some cases the available information from real models may not be enough to construct either a probability distribution or a membership function for problem solving In such

cases there are various theories that can be used to quantify the uncertain aspects Optimization Techniques for Problem Solving in Uncertainty is a scholarly reference resource that looks at uncertain aspects involved in different disciplines and applications Featuring coverage on a wide range of topics including uncertain preference fuzzy multilevel programming and metaheuristic applications this book is geared towards engineers managers researchers and post graduate students seeking emerging research in the field of optimization Handbook of Research on Emergent Applications of Optimization Algorithms Vasant, Pandian, Alparslan-Gok, Sirma Zeynep, Weber, Gerhard-Wilhelm, 2017-10-31 Modern optimization approaches have attracted an increasing number of scientists decision makers and researchers As new issues in this field emerge different optimization methodologies must be developed and implemented The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and engineering Featuring coverage on a broad range of topics and perspectives such as hybrid systems non cooperative games and cryptography this publication is ideally designed for students researchers and engineers interested in emerging developments in optimization algorithms Intelligent Data Analysis: Developing New Methodologies Through Pattern Discovery and Recovery Wang, Hsiao-Fan, 2008-07-31 Pattern Recognition has a long history of applications to data analysis in business military and social economic activities While the aim of pattern recognition is to discover the pattern of a data set the size of the data set is closely related to the methodology one adopts for analysis Intelligent Data Analysis Developing New Methodologies Through Pattern Discovery and Recovery tackles those data sets and covers a variety of issues in relation to intelligent data analysis so that patterns from frequent or rare events in spatial or temporal spaces can be revealed This book brings together current research results problems and applications from both theoretical and practical approaches

Supply Chain Network Economics Anna Nagurney,2006-01-01 This book is the first to bring an economics perspective in a rigorous manner to complex decision making in the management of supply chains It provides the foundations for the modeling of the interrelationships among decision makers in supply chains ranging from manufacturers distributors and retailers to the consumers assuming individualized behavior The models handle both competition and cooperation and provide the resulting product flows and prices in the chains A unique network economics perspective is brought to the issue setting the book apart from the numerous management and operations research volumes available After an introduction of the theoretical foundations the book then extends and applies the theory to energy supply chains in the form of electric power generation and distribution networks The relationships between electric power supply chains and transportation networks are vividly captured through theoretical results and the solution of practical examples The book then explores environmental supply chain and financial networks with intermediation which are interpreted as supply chains and also solved as such Throughout the underlying theme is that of transportation networks and how the relationships between supply

chain networks and the more established theory of transportation network equilibria can be applied and exploited for logistic type applications Economists and transportation researchers will find the book s theory and applications of great interest Operations researchers and management scientists as well as practitioners in business logistics will be interested in the book s methodological and practical tools The Oxford Handbook of the Macroeconomics of Global Warming Lucas Bernard, Willi Semmler, 2015 The Oxford Handbook of the Macroeconomics of Global Warming analyzes the macroeconomics of global warming especially the economics of possible preventative measures various policy changes and potential effects of Neutrosophic data envelopment analysis based on the climate change on developing and developed nations possibilistic mean approach Kshitish Kumar Mohanta, Deena Sunil Sharanappa, Vishnu Narayan Mishra, 2023-01-01 Data envelopment analysis DEA is a non parametric approach for the estimation of production frontier that is used to calculate the performance of a group of similar decision making units DMUs which employ comparable inputs to produce related outputs However observed values might occasionally be confusing imprecise ambiguous inadequate and inconsistent in real world applications Thus disregarding these factors may result in incorrect decision making Thus neutrosophic sets have been created as an extension of intuitionistic fuzzy sets to represent ambiguous erroneous missing and inaccurate information in real world applications In this study we have proposed a technique for solving the neutrosophic form of the Charnes Cooper Rhodes CCR model based on single value trapezoidal neutrosophic numbers SVTrNNs The possibilistic mean for SVTrNNs is redefined and applied the Mehar approach to transforming the neutrosophic DEA Neu DEA model into its corresponding crisp DEA model As a result the efficiency scores of the DMUs are calculated using different risk parameter values lying in 0 1 A numerical example is given to analyze the performance of the all India institutes of medical sciences and compared it with Abdelfattah's ranking approach

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