

Shu-Heng Chen
Paul P. Wang
Tzu-Wen Kuo (Eds.)

Computational Intelligence in Economics and Finance

Volume II

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Computational Intelligence In Economics And Finance

Volume Ii

Shu-Heng Chen



Computational Intelligence In Economics And Finance Volume Ii:

Computational Intelligence in Economics and Finance Paul P. Wang, Tzu-Wen Kuo, 2007-07-11 Computational intelligence CI as an alternative to statistical and econometric approaches has been applied to a wide range of economics and finance problems in recent years for example to price forecasting and market efficiency This book contains research ranging from applications in financial markets and business administration to various economics problems Not only are empirical studies utilizing various CI algorithms presented but so also are theoretical models based on computational methods In addition to direct applications of computational intelligence readers can also observe how these methods are combined with conventional analytical methods such as statistical and econometric models to yield preferred results Chen Wang and Kuo have grouped the 12 contributions following their introductory chapter into applications of fuzzy logic neural networks including self organizing maps and support vector machines and evolutionary computation All chapters were selected either by invitation or based on a careful selection and extension of best papers from the International Workshop on Computational Intelligence in Economics and Finance in 2005 Overall the book offers researchers an excellent overview of current advances and applications of computational intelligence techniques to economics and finance problems [Computational Intelligence in Economics and Finance](#) Paul P. Wang, Tzu-Wen Kuo, 2009-09-02 Readers will find in this highly relevant and groundbreaking book research ranging from applications in financial markets and business administration to various economics problems Not only are empirical studies utilizing various CI algorithms presented but so also are theoretical models based on computational methods In addition to direct applications of computational intelligence readers can also observe how these methods are combined with conventional analytical methods such as statistical and econometric models to yield preferred results **Computational Intelligence in Economics and Finance** Paul P. Wang, 2013-03-09 Due to the ability to handle specific characteristics of economics and finance forecasting problems like e g non linear relationships behavioral changes or knowledge based domain segmentation we have recently witnessed a phenomenal growth of the application of computational intelligence methodologies in this field In this volume Chen and Wang collected not just works on traditional computational intelligence approaches like fuzzy logic neural networks and genetic algorithms but also examples for more recent technologies like e g rough sets support vector machines wavelets or ant algorithms After an introductory chapter with a structural description of all the methodologies the subsequent parts describe novel applications of these to typical economics and finance problems like business forecasting currency crisis discrimination foreign exchange markets or stock markets behavior *Computational Economics* Shu-Heng Chen, L. C. Jain, Chung-Ching Tai, 2006-01-01 This book identifies the economic as well as financial problems that may be solved efficiently with computational methods and explains why those problems should best be solved with computational methods Provided by publisher *Computational Intelligence - Volume II* Hisao Ishibuchi, 2015-12-30 Computational intelligence is a component of Encyclopedia of Technology

Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Computational intelligence is a rapidly growing research field including a wide variety of problem solving techniques inspired by nature Traditionally computational intelligence consists of three major research areas Neural Networks Fuzzy Systems and Evolutionary Computation Neural networks are mathematical models inspired by brains Neural networks have massively parallel network structures with many neurons and weighted connections Whereas each neuron has a simple input output relation a neural network with many neurons can realize a highly non linear complicated mapping Connection weights between neurons can be adjusted in an automated manner by a learning algorithm to realize a non linear mapping required in a particular application task Fuzzy systems are mathematical models proposed to handle inherent fuzziness in natural language For example it is very difficult to mathematically define the meaning of cold in everyday conversations such as It is cold today and Can I have cold water The meaning of cold may be different in a different situation Even in the same situation a different person may have a different meaning Fuzzy systems offer a mathematical mechanism to handle inherent fuzziness in natural language As a result fuzzy systems have been successfully applied to real world problems by extracting linguistic knowledge from human experts in the form of fuzzy IF THEN rules Evolutionary computation includes various population based search algorithms inspired by evolution in nature Those algorithms usually have the following three mechanisms fitness evaluation to measure the quality of each solution selection to choose good solutions from the current population and variation operators to generate offspring from parents Evolutionary computation has high applicability to a wide range of optimization problems with different characteristics since it does not need any explicit mathematical formulations of objective functions For example simulation based fitness evaluation is often used in evolutionary design Subjective fitness evaluation by a human user is also often used in evolutionary art and music These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers

Computational Intelligence in Software Modeling Vishal Jain,Jyotir Moy Chatterjee,Ankita Bansal,Utku Kose,Abha Jain,2022-02-21 Researchers academicians and professionals expone in this book their research in the application of intelligent computing techniques to software engineering As software systems are becoming larger and complex software engineering tasks become increasingly costly and prone to errors Evolutionary algorithms machine learning approaches meta heuristic algorithms and others techniques can help the efficiency of software engineering *The Impact of Artificial Intelligence on Governance, Economics and Finance, Volume 2* Sezer Bozkus Kahyaoğlu,2022-05-20 This book continues the discussion of the effects of artificial intelligence in terms of economics and finance In particular the book focuses on the effects of the change in the structure of financial markets institutions and central banks along with digitalization analyzed based on fintech ecosystems In addition to finance sectors other sectors such as health logistics and industry 4.0 all of which

are undergoing an artificial intelligence induced rapid transformation are addressed in this book Readers will receive an understanding of an integrated approach towards the use of artificial intelligence across various industries and disciplines with a vision to address the strategic issues and priorities in the dynamic business environment in order to facilitate decision making processes Economists board members of central banks bankers financial analysts regulatory authorities accounting and finance professionals chief executive officers chief audit officers and chief financial officers chief financial officers as well as business and management academic researchers will benefit from reading this book **Nostradamus 2013: Prediction,**

Modeling and Analysis of Complex Systems Ivan Zelinka, Guanrong Chen, Otto E. Rössler, Vaclav Snasel, Ajith Abraham, 2013-11-13 Prediction of behavior of the dynamical systems analysis and modeling of its structure is vitally important problem in engineering economy and science today Examples of such systems can be seen in the world around us and of course in almost every scientific discipline including such exotic domains like the earth's atmosphere turbulent fluids economies exchange rate and stock markets population growth physics control of plasma information flow in social networks and its dynamics chemistry and complex networks To understand such dynamics and to use it in research or industrial applications it is important to create its models For this purpose there is rich spectra of methods from classical like ARMA models or Box Jenkins method to such modern ones like evolutionary computation neural networks fuzzy logic fractal geometry deterministic chaos and more This proceeding book is a collection of the accepted papers to conference Nostradamus that has been held in Ostrava Czech Republic Proceeding also comprises of outstanding keynote speeches by distinguished guest speakers Guanrong Chen Hong Kong Miguel A F Sanjuan Spain Gennady Leonov and Nikolay Kuznetsov Russia Petr koda Czech Republic The main aim of the conference is to create periodical possibility for students academics and researchers to exchange their ideas and novel methods This conference will establish forum for presentation and discussion of recent trends in the area of applications of various predictive methods for researchers students and academics

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

The Oxford Handbook of Computational Economics and Finance Shu-Heng Chen, Mak Kaboudan, Ye-Rong Du, 2018

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.

Artificial Intelligence, Learning and Computation in Economics and Finance Ragupathy Venkatachalam, 2023-02-15. This book presents frontier research on the use of computational methods to model complex interactions in economics and finance. Artificial Intelligence, Machine Learning and simulations offer effective means of analyzing and learning from large as well as new types of data. These computational tools have permeated various subfields of economics, finance and also across different schools of economic thought. Through 16 chapters written by pioneers in economics, finance, computer science, psychology, complexity and statistics, econometrics, the book introduces their original research and presents the findings they have yielded. Theoretical and empirical studies featured in this book draw on a variety of approaches such as agent based modeling, numerical simulations, computable economics as well as employing tools from artificial intelligence and machine learning algorithms. The use of computational approaches to perform counterfactual thought experiments are also introduced which help transcend the limits posed by traditional mathematical and statistical tools. The book also includes discussions on methodology, epistemology, history and issues concerning prediction, validation and inference, all of which have become pertinent with the increasing use of computational approaches in economic analysis.

Handbook of Grammatical Evolution Conor Ryan, Michael O'Neill, JJ Collins, 2018-09-11. This handbook offers a comprehensive treatise on Grammatical Evolution (GE), a grammar based Evolutionary Algorithm that employs a function to map binary strings into higher level structures such as programs. GE's simplicity and modular nature make it a very flexible tool. Since its introduction almost twenty years ago, researchers have applied it to a vast range of problem domains including financial modelling, parallel programming and genetics. Similarly, much work has been conducted to exploit and understand the nature of its mapping scheme, triggering additional research on everything from different grammars to alternative mappers to initialization. The

book first introduces GE to the novice providing a thorough description of GE along with historical key advances Two sections follow each composed of chapters from international leading researchers in the field The first section concentrates on analysis of GE and its operation giving valuable insight into set up and deployment The second section consists of seven chapters describing radically different applications of GE The contributions in this volume are beneficial to both novices and experts alike as they detail the results and researcher experiences of applying GE to large scale and difficult problems Topics include Grammar design Bias in GE Mapping in GE Theory of disruption in GE Structured GE Geometric semantic GE GE and semantics Multi and Many core heterogeneous parallel GE Comparing methods to creating constants in GE Financial modelling with GE Synthesis of parallel programs on multi cores Design architecture and engineering with GE Computational creativity and GE GE in the prediction of glucose for diabetes GE approaches to bioinformatics and system genomics GE with coevolutionary algorithms in cybersecurity Evolving behaviour trees with GE for platform games Business analytics and GE for the prediction of patient recruitment in multicentre clinical trials

Nostradamus: Modern Methods of Prediction, Modeling and Analysis of Nonlinear Systems Ivan Zelinka, Otto E. Röessler, Václav Snásel, Ajith Abraham, Emilio S.

Corchado, 2012-10-24 This proceeding book of Nostradamus conference <http://nostradamus-conference.org> contains accepted papers presented at this event in 2012 Nostradamus conference was held in the one of the biggest and historic city of Ostrava the Czech Republic <http://www.ostrava.cz/en> in September 2012 Conference topics are focused on classical as well as modern methods for prediction of dynamical systems with applications in science engineering and economy Topics are but not limited to prediction by classical and novel methods predictive control deterministic chaos and its control complex systems modelling and prediction of its dynamics and much more

Evolutionary Computation in Economics and Finance Shu-Heng Chen, 2013-11-11 After a decade s development evolutionary computation EC proves to be a powerful tool kit for economic analysis While the demand for this equipment is increasing there is no volume exclusively written for economists This volume for the first time helps economists to get a quick grasp on how EC may support their research A comprehensive coverage of the subject is given that includes the following three areas game theory agent based economic modelling and financial engineering Twenty leading scholars from each of these areas contribute a chapter to the volume The reader will find himself treading the path of the history of this research area from the fledgling stage to the burgeoning era The results on games labour markets pollution control institution and productivity financial markets trading systems design and derivative pricing are new and interesting for different target groups The book also includes informations on web sites conferences and computer software

Machine Learning Technologies on Energy Economics and Finance

Mohammad Zoynul Abedin, Wang Yong, 2025-09-07 This book explores the latest innovations in energy economics and finance with a particular focus on the role of machine learning algorithms in advancing the energy sector It examines key factors shaping this field including market structures regulatory frameworks environmental impacts and the dynamics of the global

energy market It discusses the critical application of machine learning ML in energy financing introducing predictive tools for forecasting energy prices across various sectors such as crude oil electricity fuelwood solar and natural gas It also addresses how ML can predict investor behavior and assess the efficiency of energy markets with a focus on both the opportunities and challenges in renewable energy and energy finance This book serves as a comprehensive guide for academics practitioners financial managers stakeholders government officials and policymakers who seek strategies to enhance energy systems reduce costs and uncertainties and optimize revenue for economic growth This is the second volume of a two volume set Natural Computing in Computational Finance Anthony Brabazon,Michael O'Neill,Dietmar G.

Maringer,2010-07-11 The chapters in this book illustrate the application of a range of cutting edge natural computing and agent based methodologies in computational finance and economics The eleven chapters were selected following a rigorous peer reviewed selection process **Intelligent Computing and Optimization** Pandian Vasant,Mohammad Shamsul

Arefin,Vladimir Panchenko,J. Joshua Thomas,Elias Munapo,Gerhard-Wilhelm Weber,Roman Rodriguez-Aguilar,2023-11-10

This book of Springer Nature is another proof of Springer s outstanding greatness on the lively interface of Holistic Computational Optimization Green IoTs Smart Modeling and Deep Learning It is a masterpiece of what our community of academics and experts can provide when an interconnected approach of joint mutual and meta learning is supported by advanced operational research and experience of the World Leader Springer Nature The 6th edition of International Conference on Intelligent Computing and Optimization took place at G Hua Hin Resort Mall on April 27 28 2023 with tremendous support from the global research scholars across the planet Objective is to celebrate Research Novelty with Compassion and Wisdom with researchers scholars experts and investigators in Intelligent Computing and Optimization across the globe to share knowledge experience and innovation a marvelous opportunity for discourse and mutuality by novel research invention and creativity This proceedings book of the 6th ICO 2023 is published by Springer Nature Quality Label of Enlightenment **Data Mining: Foundations and Intelligent Paradigms** Dawn E. Holmes,Lakhmi C Jain,2011-11-09

There are many invaluable books available on data mining theory and applications However in compiling a volume titled DATA MINING Foundations and Intelligent Paradigms Volume 2 Core Topics including Statistical Time Series and Bayesian Analysis we wish to introduce some of the latest developments to a broad audience of both specialists and non specialists in this field *Genetic Algorithms in Applications* Rustem Popa,2012-03-21 Genetic Algorithms GAs are one of several

techniques in the family of Evolutionary Algorithms algorithms that search for solutions to optimization problems by evolving better and better solutions Genetic Algorithms have been applied in science engineering business and social sciences This book consists of 16 chapters organized into five sections The first section deals with some applications in automatic control the second section contains several applications in scheduling of resources and the third section introduces some applications in electrical and electronics engineering The next section illustrates some examples of character recognition and

multi criteria classification and the last one deals with trading systems These evolutionary techniques may be useful to engineers and scientists in various fields of specialization who need some optimization techniques in their work and who may be using Genetic Algorithms in their applications for the first time These applications may be useful to many other people who are getting familiar with the subject of Genetic Algorithms *Machine Learning Used in Biomedical Computing and Intelligence Healthcare, Volume II* Honghao Gao,Ying Li,Zijian Zhang,Wenbing Zhao,2022-05-27

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