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Constantin Zopounidis
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Financial Decision Making Using Computational Intelligence

Financial Decision Making Using Computational Intelligence Springer Optimization And Its Applications

Tshilidzi Marwala, Monica Lagazio



Financial Decision Making Using Computational Intelligence Springer Optimization And Its Applications:

Financial Decision Making Using Computational Intelligence Michael Doumpos,Constantin Zopounidis,Panos M. Pardalos,2012-07-23 The increasing complexity of financial problems and the enormous volume of financial data often make it difficult to apply traditional modeling and algorithmic procedures In this context the field of computational intelligence provides an arsenal of particularly useful techniques These techniques include new modeling tools for decision making under risk and uncertainty data mining techniques for analyzing complex data bases and powerful algorithms for complex optimization problems Computational intelligence has also evolved rapidly over the past few years and it is now one of the most active fields in operations research and computer science This volume presents the recent advances of the use of computation intelligence in financial decision making The book covers all the major areas of computational intelligence and a wide range of problems in finance such as portfolio optimization credit risk analysis asset valuation financial forecasting and trading

Financial Decision Making Using Computational Intelligence Michael Doumpos,Constantin Zopounidis,Panos M. Pardalos,2012-07-21 The increasing complexity of financial problems and the enormous volume of financial data often make it difficult to apply traditional modeling and algorithmic procedures In this context the field of computational intelligence provides an arsenal of particularly useful techniques These techniques include new modeling tools for decision making under risk and uncertainty data mining techniques for analyzing complex data bases and powerful algorithms for complex optimization problems Computational intelligence has also evolved rapidly over the past few years and it is now one of the most active fields in operations research and computer science This volume presents the recent advances of the use of computation intelligence in financial decision making The book covers all the major areas of computational intelligence and a wide range of problems in finance such as portfolio optimization credit risk analysis asset valuation financial forecasting and trading

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

Developments in Mean-Variance Efficient Portfolio Selection M. Agarwal, 2015-12-11 This book discusses new determinants for optimal portfolio selection It reviews the existing modelling framework and creates mean variance efficient portfolios from the securities companies on the National Stock Exchange Comparisons enable researchers to rank them in terms of their effectiveness in the present day Indian securities market

Militarized Conflict Modeling Using Computational Intelligence Tshilidzi Marwala, Monica Lagazio, 2011-08-24 Militarized Conflict Modeling Using Computational Intelligence examines the application of computational intelligence methods to model conflict Traditionally conflict has been modeled using game theory The inherent limitation of game theory when dealing with more than three players in a game is the main motivation for the application of computational intelligence in modeling conflict Militarized interstate disputes MIDs are defined as a set of interactions between or among states that can result in the display threat or actual use of military force in an explicit way These interactions can result in either peace or conflict This book models the relationship between key variables and the risk of conflict between two countries The variables include Allies which measures the presence or absence of military alliance Contiguity which measures whether the countries share a common boundary or not and Major Power which measures whether either or both states are a major power Militarized Conflict Modeling Using Computational Intelligence implements various multi layer perception neural networks Bayesian networks support vector machines neuro fuzzy models rough sets models neuro rough sets models and optimized rough sets models to create models that estimate the risk of conflict given the variables Secondly these models are used to study the sensitivity of each variable to conflict Furthermore a framework on how these models can be used to control the possibility of peace is proposed Finally new and emerging topics on modelling conflict are identified and further work is proposed

Artificial Intelligence and Economic Theory: Skynet in the Market Tshilidzi Marwala, Evan Hurwitz, 2017-09-18 This book theoretically and practically updates major economic ideas such as demand and supply rational choice and expectations bounded rationality behavioral economics information asymmetry pricing efficient market hypothesis game theory mechanism design portfolio theory causality and financial engineering in the age of significant advances in man machine systems The advent of artificial intelligence has changed many disciplines such as engineering social science and economics Artificial intelligence is a computational technique which is inspired by natural intelligence concepts such as the swarming of birds the working of the brain and the pathfinding of the ants Artificial Intelligence and Economic Theory Skynet in the Market analyses the impact of artificial intelligence on economic theories a subject that has not been studied It also introduces new economic theories and these are rational counterfactuals and rational opportunity costs These ideas are applied to diverse areas such as modelling of the stock market credit scoring HIV and interstate conflict Artificial intelligence ideas used in this book include neural networks particle swarm optimization simulated annealing fuzzy logic and genetic algorithms It furthermore

explores ideas in causality including Granger as well as the Pearl causality models Condition Monitoring Using Computational Intelligence Methods Tshilidzi Marwala, 2012-01-23 Condition Monitoring Using Computational Intelligence Methods promotes the various approaches gathered under the umbrella of computational intelligence to show how condition monitoring can be used to avoid equipment failures and lengthen its useful life minimize downtime and reduce maintenance costs The text introduces various signal processing and pre processing techniques wavelets and principal component analysis for example together with their uses in condition monitoring and details the development of effective feature extraction techniques classified into frequency time frequency and time domain analysis Data generated by these techniques can then be used for condition classification employing tools such as fuzzy systems rough and neuro rough sets neural and Bayesian networks hidden Markov and Gaussian mixture models and support vector machines Applied Mathematics and Computational Intelligence Anna M. Gil-Lafuente, José M. Merigó, Bal Kishan Dass, Rajkumar Verma, 2018-03-06 This book gathers selected papers presented at the conference of the Forum for Interdisciplinary Mathematics FIM held at Palau Macaya Barcelona on 18 to 20 November 2015 The event was co organized by the University of Barcelona Spain the Spanish Royal Academy of Economic and Financial Sciences Spain and the Forum for Interdisciplinary Mathematics India This instalment of the conference was presented with the title Applied Mathematics and Computational Intelligence and particularly focused on the use of Mathematics and Computational Intelligence techniques in a diverse range of scientific disciplines as well as their applications in real world problems The book presents thirty peer reviewed research papers organised into four topical sections on Mathematical Foundations Computational Intelligence and Optimization Techniques Modelling and Simulation Techniques and Applications in Business and Engineering This book will be of great interest to anyone working in the area of applied mathematics and computational intelligence and will be especially useful for scientists and graduate students pursuing research in these fields *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

Neutrosophic Sets and Systems, vol. 73/2024 {Proceedings of the “Mediterranean Conference on Three Decades of Neutrosophic and Plithogenic Theories and Applications” (MeCoNeT 2024)}

Florentin Smarandache, Mohamed Abdel-Basset, Giorgio Nardo, Maikel Leyva-Vázquez, 2024-12-01 This volume contains the proceedings of the Mediterranean Conference on Neutrosophic Theory MeCoNeT 2024 held at the Accademia Peloritana dei Pericolanti of the University of Messina on September 24-25, 2024. The event was organized by the MIFT Department Mathematics, Computer Science, Physics and Earth Sciences of the University of Messina, marking the first international congress on neutrosophic theories outside the Americas. This milestone has firmly established the Mediterranean region as a key hub for research in the rapidly growing field of neutrosophic theory. The MeCoNeT 2024 conference drew over 100 participants from more than 15 countries, with more than 50 scientific contributions selected through a rigorous peer review process. The hybrid format of the event, featuring in-person sessions at the historical Accademia Peloritana dei Pericolanti and online parallel sessions, allowed for broad international participation. The conference thus offered an ideal platform for sharing interdisciplinary research and addressing contemporary challenges in mathematics and beyond.

Numerical Methods and Optimization in Finance Manfred Gilli, Dietmar Maringer, Enrico Schumann, 2019-08-16 Computationally intensive tools play an increasingly important role in financial decisions. Many financial problems ranging from asset allocation to risk management and from option pricing to model calibration can be efficiently handled using modern computational techniques. *Numerical Methods and Optimization in Finance* presents such computational techniques with an emphasis on simulation and optimization, particularly so-called heuristics. This book treats quantitative analysis as an essentially computational discipline in which applications are put into software form and tested empirically. This revised edition includes two new chapters: a self-contained tutorial on implementing and using heuristics and an explanation of software used for testing portfolio selection models. Postgraduate students, researchers in programs on quantitative and computational finance, and practitioners in banks and other financial companies can benefit from this second edition of *Numerical Methods and Optimization in Finance*.

Computational Intelligence Techniques for Sustainable Supply Chain Management

Sanjoy Kumar Paul, Sandeep Kautish, 2024-05-24 Sustainable supply chain management involves integrating environmentally and financially viable practices into the complete supply chain lifecycle from product design and development to material selection and sourcing, manufacturing, packaging, transportation, and distribution. A sustainable supply chain ensures balance between economic, social, and environmental performances, such as better assurance of human rights, ethical work practices, carbon footprint reduction, waste management, and resource efficiency. *Computational Intelligence Techniques for Sustainable Supply Chain Management* presents state-of-the-art computational intelligence techniques and applications for supply chain sustainability issues and logistic problems, filling the gap between general

textbooks on sustainable supply chain management and more specialized literature dealing with methods for computational intelligence This book focuses on addressing problems in advanced topics in the sustainable supply chain and will appeal to practitioners managers researchers academicians students and professionals interested in sustainable logistics sustainable procurement sustainable manufacturing sustainable inventory and production management sustainable scheduling sustainable transportation and sustainable network design Serves as a reference on computational intelligence enabled sustainable supply chains for graduate students in computer data science industrial engineering industrial ecology and business Explores key topics in sustainable supply chain informatics that is heuristics metaheuristics robotics simulation machine learning big data analytics and artificial intelligence Provides a foundation for industry leaders and professionals to understand recent and cutting edge methodologies and technologies in the domain of sustainable supply chain powered by computational intelligence techniques

Decision-Making Models Tofiq Allahviranloo, Witold Pedrycz, Amir Seyyedabbasi, 2024-07-24 *Decision Making Models A Perspective of Fuzzy Logic and Machine Learning* presents the latest developments in the field of uncertain mathematics and decision science The book aims to deliver a systematic exposure to soft computing techniques in fuzzy mathematics as well as artificial intelligence in the context of real life problems and is designed to address recent techniques to solving uncertain problems encountered specifically in decision sciences Researchers professors software engineers and graduate students working in the fields of applied mathematics software engineering and artificial intelligence will find this book useful to acquire a solid foundation in fuzzy logic and fuzzy systems optimization problems and artificial intelligence practices as well as how to analyze IoT solutions with applications and develop decision making mechanisms realized under uncertainty Introduces mathematics of intelligent systems which provides the usage of mathematical rigor such as precise definitions theorems results and proofs Provides extended and new comprehensive methods which can be used efficiently in a fuzzy environment as well as optimization problems and related fields Covers applications and elaborates on the usage of the developed methodology in various fields of industry such as software technologies biomedicine image processing and communications

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 **Computational Intelligence for Information Retrieval** Dharmender Saini,Gopal Chaudhary,Vedika Gupta,2021-12-14 This book provides a thorough understanding of the integration of computational intelligence with information retrieval including content based image retrieval using intelligent techniques hybrid computational intelligence for pattern recognition intelligent innovative systems and protecting and analysing big data on cloud platforms The book aims to investigate how computational intelligence frameworks are going to improve information retrieval systems The emerging and promising state of the art of human computer interaction is the motivation behind this book The book covers a wide range of topics starting from the tools and languages of artificial intelligence to its philosophical implications and thus provides a plethora of theoretical as well as experimental research along with surveys and impact studies Further the book aims to showcase the basics of information retrieval and computational intelligence for beginners as well as their integration and challenge discussions for existing practitioners including using hybrid application of augmented reality computational intelligence techniques for recommendation systems in big data and a fuzzy based approach for characterization and identification of sentiments

Business Intelligence in Economic Forecasting: Technologies and Techniques Wang, Jue,Wang, Shouyang,2010-06-30 With the rapid development of economic globalization and information technology the field of economic forecasting continues its expeditious advancement providing business and government with applicable technologies This book discusses various business intelligence techniques including neural networks support vector machine genetic programming clustering analysis TEI I fuzzy systems text mining and many more It serves as a valuable reference for professionals and researchers interested in BI technologies and their practical applications in economic forecasting as well as policy makers in business organizations and governments **Safety, Reliability and Risk Analysis** Sebastian

Martorell,Carlos Guedes Soares,Julie Barnett,2008-09-10 Safety Reliability and Risk Analysis Theory Methods and Applications contains the papers presented at the joint ESREL European Safety and Reliability and SRA Europe Society for Risk Analysis Europe Conference Valencia Spain 22 25 September 2008 The book covers a wide range of topics including Accident and Incident Investigation Crisi *Optimization for Decision Making II* Víctor Yepes,José M.

Moreno-Jiménez,2020-11-25 In the current context of the electronic governance of society both administrations and citizens are demanding the greater participation of all the actors involved in the decision making process relative to the governance of society This book presents collective works published in the recent Special Issue SI entitled Optimization for Decision Making II These works give an appropriate response to the new challenges raised the decision making process can be done by applying different methods and tools as well as using different objectives In real life problems the formulation of decision making problems and the application of optimization techniques to support decisions are particularly complex and a wide

range of optimization techniques and methodologies are used to minimize risks improve quality in making decisions or in general to solve problems In addition a sensitivity or robustness analysis should be done to validate analyze the influence of uncertainty regarding decision making This book brings together a collection of inter multi disciplinary works applied to the optimization of decision making in a coherent manner *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 **Sustainable Smart Technology Businesses in Global Economies** Lalit Prasad,Anatoliy Goncharuk,Teddy Fauzi,Hanna Doroshuk,Sri Sundari,2025-05-06 To live a healthy life we need a continuous supply of clean air water and other natural resources But in the recent past the environmental conditions have deteriorated significantly due to ongoing development and industrialization Owing to the increase in the population globally we cannot avoid the ongoing developmental works Thus maintaining a balance between environment and development is the demand of the current time To achieve this goal we have to shift towards sustainable development This conference was intended for works pertaining to mathematical modeling and management of natural resources It provided a forum for the research community to exchange ideas related to sustainable development

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