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**Fuzzy Portfolio Optimization
with Application of Forecasting
Methods**

Fuzzy Portfolio Optimization With Application Of Forecasting Methods

George A. Tsihrintzis, Lakhmi C. Jain



Fuzzy Portfolio Optimization With Application Of Forecasting Methods:

The Fundamentals of Computational Intelligence: System Approach Mikhail Z. Zgurovsky, Yuriy P.

Zaychenko, 2016-07-01 This monograph is dedicated to the systematic presentation of main trends technologies and methods of computational intelligence CI The book pays big attention to novel important CI technology fuzzy logic FL systems and fuzzy neural networks FNN Different FNN including new class of FNN cascade neo fuzzy neural networks are considered and their training algorithms are described and analyzed The applications of FNN to the forecast in macroeconomics and at stock markets are examined The book presents the problem of portfolio optimization under uncertainty the novel theory of fuzzy portfolio optimization free of drawbacks of classical model of Markovitz as well as an application for portfolios optimization at Ukrainian Russian and American stock exchanges The book also presents the problem of corporations bankruptcy risk forecasting under incomplete and fuzzy information as well as new methods based on fuzzy sets theory and fuzzy neural networks and results of their application for bankruptcy risk forecasting are presented and compared with Altman method This monograph also focuses on an inductive modeling method of self organization the so called Group Method of Data Handling GMDH which enables to construct the structure of forecasting models almost automatically The results of experimental investigations of GMDH for forecasting at stock exchanges are presented The final chapters are devoted to theory and applications of evolutionary modeling EM and genetic algorithms The distinguishing feature of this monograph is a great number of practical examples of CI technologies and methods application for solution of real problems in technology economy and financial sphere in particular forecasting classification pattern recognition portfolio optimization bankruptcy risk prediction under uncertainty which were developed by authors and published in this book for the first time All CI methods and algorithms are presented from the general system approach and analysis of their properties advantages and drawbacks that enables practitioners to choose the most adequate method for their own problems solution **Fuzzy Sets**

Theory Preliminary Hao-Ran Lin, Bing-Yuan Cao, Yun-zhang Liao, 2018-02-16 This basic book has been used at the middle schools in Shanghai China for more than 10 years The book presents carefully selected contents in order to achieve the roles of enlightenment and popularization It mainly includes Chapter 1 Human Brains Computers and Fuzzy Mathematics Chapter 2 Matrix Fuzzy Relations and Fuzzy Matrix Chapter 3 Fuzzy Control Chapter 4 Fuzzy Statistics and Fuzzy Probability and Chapter 5 Fuzzy Linear Programming It includes at the end of each chapter concise interesting and profound reading and thinking materials and a certain amount of exercises so as to make it an informative and interesting textbook This book can be used not only as a textbook in senior middle schools and in vocational colleges but also as a primer for individually learning fuzzy mathematics **Recent Advances in Theory and Methods for the Analysis of High Dimensional and**

High Frequency Financial Data Norman R. Swanson, Xiye Yang, 2021-08-31 Recently considerable attention has been placed on the development and application of tools useful for the analysis of the high dimensional and or high frequency

datasets that now dominate the landscape The purpose of this Special Issue is to collect both methodological and empirical papers that develop and utilize state of the art econometric techniques for the analysis of such data [Machine Learning in the Analysis and Forecasting of Financial Time Series](#) Jaydip Sen,Sidra Mehtab,2022-04-28 This book is a collection of real world cases illustrating how to handle challenging and volatile financial time series data for a better understanding of their past behavior and robust forecasting of their future movement It demonstrates how the concepts and techniques of statistical econometric machine learning and deep learning are applied to build robust predictive models and the ways in which these models can be used for constructing profitable portfolios of investments All the concepts and methods used here have been implemented using R and Python languages on TensorFlow and Keras frameworks The book will be particularly useful for advanced postgraduate and doctoral students of finance economics econometrics statistics data science computer science and information technology

Machine Learning Paradigms George A. Tsihrintzis,Lakhmi C. Jain,2020-07-23 At the dawn of the 4th Industrial Revolution the field of Deep Learning a sub field of Artificial Intelligence and Machine Learning is growing continuously and rapidly developing both theoretically and towards applications in increasingly many and diverse other disciplines The book at hand aims at exposing its reader to some of the most significant recent advances in deep learning based technological applications and consists of an editorial note and an additional fifteen 15 chapters All chapters in the book were invited from authors who work in the corresponding chapter theme and are recognized for their significant research contributions In more detail the chapters in the book are organized into six parts namely 1 Deep Learning in Sensing 2 Deep Learning in Social Media and IOT 3 Deep Learning in the Medical Field 4 Deep Learning in Systems Control 5 Deep Learning in Feature Vector Processing and 6 Evaluation of Algorithm Performance This research book is directed towards professors researchers scientists engineers and students in computer science related disciplines It is also directed towards readers who come from other disciplines and are interested in becoming versed in some of the most recent deep learning based technological applications An extensive list of bibliographic references at the end of each chapter guides the readers to probe deeper into their application areas of interest

A hybrid time series forecasting method based on neutrosophic logic with applications in financial issues Seyyed Ahmad Edalatpanah,Farnaz Sheikh Hassani,Florentin Smarandache,Ali Sorourkhah,Dragan Pamucar,Bing Cui ,2024-11-01 Rising market demands economic pressures and technological advancements have spurred researchers to seek ways to enhance business environments and scientific productivity Predictive science crucial in this context has gained prominence due to the rapid progress in information technology and forecasting algorithms Time series forecasting widely used in fields like engineering economics tourism and energy has inherent limitations with classical statistical methods leading researchers to explore artificial intelligence and fuzzy logic for more accurate predictions However despite extensive efforts to improve accuracy challenges persist The research introduces a model aimed at surpassing existing methods in time series forecasting accuracy This approach

combines meta heuristic optimization algorithms and neutrosophic logic to enhance precision in uncertain and complex environments promising improved forecasting outcomes The study shows that the performance of the neutrosophic time series modeling approach is highly dependent on the optimal selection of the universe of discourse and its corresponding intervals This study selects the quantum optimization algorithm QOA genetic algorithm GA and particle swarm optimization PSO to address this weakness These optimization algorithms improve the performance of the NTS modeling approach by selecting the global universe of discourse and corresponding intervals from the list of locally optimal solutions The proposed hybrid model i e NTS QOA model is verified and validated with datasets of university enrollment of Alabama USA Taiwan futures exchange TAIEX index and Taiwan Stock Exchange Corporation TSEC weighted index Various experimental results signified the efficiency of the proposed model over existing benchmark models in terms of average forecasting error rate AFER This value using the proposed NTS QOA NTS GA and NTS PSO method on the university dataset is 0.166 0.167 0.164 on the TAIEX dataset is 0.081 0.081 and 0.081 and on the TSEC dataset is 0.09 0.09 and 0.09 respectively

Optimization of Financial Asset Neutrosophic Portfolios Marcel-Ioan Boloş, Ioana-Alexandra Bradea, Camelia Delcea, The purpose of this paper was to model with the help of neutrosophic fuzzy numbers the optimal financial asset portfolios offering additional information to those investing in the capital market The optimal neutrosophic portfolios are those categories of portfolios consisting of two or more financial assets modeled using neutrosophic triangular numbers that allow for the determination of financial performance indicators respectively the neutrosophic average the neutrosophic risk for each financial asset and the neutrosophic covariance as well as the determination of the portfolio return respectively of the portfolio risk

Artificial Intelligence and Soft Computing Leszek Rutkowski, Rafał Scherer, Marcin Korytkowski, Witold Pedrycz, Ryszard Tadeusiewicz, Jacek M. Zurada, 2020-10-20 The two volume set LNCS 12415 and 12416 constitutes the refereed proceedings of the 19th International Conference on Artificial Intelligence and Soft Computing ICAISC 2020 held in Zakopane Poland in October 2020 The 112 revised full papers presented were carefully reviewed and selected from 265 submissions The papers included in the first volume are organized in the following six parts neural networks and their applications fuzzy systems and their applications evolutionary algorithms and their applications pattern classification bioinformatics biometrics and medical applications artificial intelligence in modeling and simulation The papers included in the second volume are organized in the following four parts computer vision image and speech analysis data mining various problems of artificial intelligence agent systems robotics and control The conference was held virtually due to the COVID 19 pandemic

Artificial Intelligence Enabled Computational Methods for Smart Grid Forecast and Dispatch Yuanzheng Li, Yong Zhao, Lei Wu, Zhigang Zeng, 2023-05-05 With the increasing penetration of renewable energy and distributed energy resources smart grid is facing great challenges which could be divided into two categories On the one hand the endogenous uncertainties of renewable energy and electricity load lead to great difficulties in smart grid forecast On the other hand massive electric devices as well

as their complex constraint relationships bring about significant difficulties in smart grid dispatch. Owing to the rapid development of artificial intelligence in recent years, several artificial intelligence enabled computational methods have been successfully applied in the smart grid and achieved good performances. Therefore, this book is concerned with the research on the key issues of artificial intelligence enabled computational methods for smart grid forecast and dispatch, which consist of three main parts: 1. Introduction for smart grid forecast and dispatch in inclusion of reviewing previous contribution of various research methods as well as their drawbacks to analyze characteristics of smart grid forecast and dispatch; 2. Artificial intelligence enabled computational methods for smart grid forecast problems which are devoted to present the recent approaches of deep learning and machine learning as well as their successful applications in smart grid forecast; 3. Artificial intelligence enabled computational methods for smart grid dispatch problems consisting of edge cutting intelligent decision making approaches which help determine the optimal solution of smart grid dispatch. The book is useful for university researchers, engineers and graduate students in electrical engineering and computer science who wish to learn the core principles, methods, algorithms and applications of artificial intelligence enabled computational methods.

Handbook of Granular Computing Witold Pedrycz, Andrzej Skowron, Vladik Kreinovich, 2008-07-31. Although the notion is a relatively recent one, the notions and principles of Granular Computing (GrC) have appeared in a different guise in many related fields including granularity in Artificial Intelligence, interval computing, cluster analysis, quotient space theory and many others. Recent years have witnessed a renewed and expanding interest in the topic as it begins to play a key role in bioinformatics, e-commerce, machine learning, security, data mining and wireless mobile computing when it comes to the issues of effectiveness, robustness and uncertainty. The Handbook of Granular Computing offers a comprehensive reference source for the granular computing community, edited by and with contributions from leading experts in the field. Includes chapters covering the foundations of granular computing, interval analysis and fuzzy set theory, hybrid methods and models of granular computing and applications and case studies. Divided into 5 sections: Preliminaries, Fundamentals, Methodology and Algorithms, Development of Hybrid Models and Applications, and Case Studies. Presents the flow of ideas in a systematic, well organized manner, starting with the concepts and motivation and proceeding to detailed design that materializes in specific algorithms, applications and case studies. Provides the reader with a self contained reference that includes all pre-requisite knowledge augmented with step by step explanations of more advanced concepts. The Handbook of Granular Computing represents a significant and valuable contribution to the literature and will appeal to a broad audience including researchers, students and practitioners in the fields of Computational Intelligence, pattern recognition, fuzzy sets and neural networks, system modelling, operations research and bioinformatics.

The Impact of Artificial Intelligence on Governance, Economics and Finance, Volume 2 Sezer Bozkuş Kahyaoglu, 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

Applying Fuzzy Logic for the Digital Economy and Society Andreas Meier,Edy Portmann,Luis Terán,2019-02-28 This edited book presents the state of the art of applying fuzzy logic to managerial decision making processes in areas such as fuzzy based portfolio management recommender systems performance assessment and risk analysis among others Presenting the latest research with a strong focus on applications and case studies it is a valuable resource for researchers practitioners project leaders and managers wanting to apply or improve their fuzzy based skills

Handbook on Decision Making Jie Lu,Lakhmi C Jain,Guangquan Zhang,2012-03-15 This book presents innovative theories methodologies and techniques in the field of risk management and decision making It introduces new research developments and provides a comprehensive image of their potential applications to readers interested in the area The collection includes computational intelligence applications in decision making multi criteria decision making under risk risk modelling forecasting and evaluation public security and community safety risk management in supply chain and other business decision making political risk management and disaster response systems The book is directed to academic and applied researchers working on risk management decision making and management information systems

Predictive Maintenance in Dynamic Systems Edwin Lughofer,Moamar Sayed-Mouchaweh,2019-02-28 This book provides a complete picture of several decision support tools for predictive maintenance These include embedding early anomaly fault detection diagnosis and reasoning remaining useful life prediction fault prognostics quality prediction and self reaction as well as optimization control and self healing techniques It shows recent applications of these techniques within various types of industrial production utilities equipment plants smart devices etc systems addressing several challenges in Industry 4 0 and different tasks dealing with Big Data Streams Internet of Things specific infrastructures and tools high system dynamics and non stationary environments Applications discussed include production and manufacturing systems renewable energy production and management maritime systems power plants and turbines conditioning systems compressor valves induction motors flight simulators railway infrastructures mobile robots cyber security and Internet of Things The contributors go beyond state of the art by placing a specific focus on dynamic systems where it is of utmost importance to update system and maintenance models on the fly to maintain their predictive power

Advances in Swarm

Intelligence Ying Tan, Yuhui Shi, KAY CHEN TAN, 2010-06 The books LNCS 6145 and 6146 constitute the refereed proceedings of the International Conference on Swarm Intelligence ICSI 2010 held in Beijing China in June 2010 The 185 revised full papers presented were carefully reviewed and selected from 394 submissions The papers are organized in topical sections on theoretical analysis of swarm intelligence algorithms PSO algorithms applications of PSO algorithms ACO algorithms applications of ACO algorithms artificial immune system novel swarm based optimization algorithms genetic algorithms evolutionary computation hybrid algorithms multi objective optimization algorithms multi robot systems multi agent based complex systems part I and fuzzy methods applications of computational intelligence algorithms signal processing and information security information processing system intelligent control classifier systems machine learning methods other optimization algorithms data mining methods intelligent computing methods and applications data mining algorithms and applications other applications part II *Algorithms and Architectures for Parallel Processing* Zahir Tari, Keqiu Li, Hongyi Wu, 2024-02-26 The 7 volume set LNCS 14487 14493 constitutes the proceedings of the 23rd International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2023 which took place in Tianjin China during October 2023 The 145 full papers included in this book were carefully reviewed and selected from 439 submissions ICA3PP covers the many dimensions of parallel algorithms and architectures encompassing fundamental theoretical approaches practical experimental projects and commercial components and systems **Applications of Computational Intelligence in Data-Driven Trading** Cris Doloc, 2019-11-05 Life on earth is filled with many mysteries but perhaps the most challenging of these is the nature of Intelligence Prof Terrence J Sejnowski Computational Neurobiologist The main objective of this book is to create awareness about both the promises and the formidable challenges that the era of Data Driven Decision Making and Machine Learning are confronted with and especially about how these new developments may influence the future of the financial industry The subject of Financial Machine Learning has attracted a lot of interest recently specifically because it represents one of the most challenging problem spaces for the applicability of Machine Learning The author has used a novel approach to introduce the reader to this topic The first half of the book is a readable and coherent introduction to two modern topics that are not generally considered together the data driven paradigm and Computational Intelligence The second half of the book illustrates a set of Case Studies that are contemporarily relevant to quantitative trading practitioners who are dealing with problems such as trade execution optimization price dynamics forecast portfolio management market making derivatives valuation risk and compliance The main purpose of this book is pedagogical in nature and it is specifically aimed at defining an adequate level of engineering and scientific clarity when it comes to the usage of the term Artificial Intelligence especially as it relates to the financial industry The message conveyed by this book is one of confidence in the possibilities offered by this new era of Data Intensive Computation This message is not grounded on the current hype surrounding the latest technologies but on a deep analysis of

their effectiveness and also on the author's two decades of professional experience as a technologist and academic

Proceedings of International Conference on Communication and Computational Technologies Sandeep Kumar, Saroj Hiranwal, Ritu Garg, S. D. Purohit, 2024-12-04 This book gathers selected papers presented at 6th International Conference on Communication and Computational Technologies ICCCT 2024 jointly organized by Soft Computing Research Society SCRS and Rajasthan Institute of Engineering Technology RIET Jaipur during January 8-9, 2024. The book is a collection of state-of-the-art research work in the cutting-edge technologies related to the communication and intelligent systems. The topics covered are algorithms and applications of intelligent systems, informatics and applications, and communication and control systems. *Proceedings of the 2nd International Conference on Signal and Data Processing* K. P. Ray, Arati Dixit, Debashis

Adhikari, Ribu Mathew, 2023-06-27 This volume comprises the select proceedings of the 2nd International Conference on Signal Data Processing ICSDP 2022. The contents focus on the latest research and developments in the field of artificial intelligence, machine learning, Internet of things (IoT), cybernetics, advanced communication systems, VLSI, embedded systems, power electronics, and automation. MEMS, nanotechnology, renewable energy, bioinformatics, data acquisition and mining, antenna, RF systems, power systems, biomedical engineering, aerospace navigation. This volume will prove to be a valuable resource for those in academia and industry.

Advanced Methodologies and Technologies in Business Operations and Management Khosrow-Pour, D.B.A., Mehdi, 2018-09-14 Businesses consistently work on new projects, products, and workflows to remain competitive and successful in the modern business environment. To remain zealous, businesses must employ the most effective methods and tools in human resources, project management, and overall business plan execution, as competitors work to succeed as well. *Advanced Methodologies and Technologies in Business Operations and Management* provides emerging research on business tools such as employee engagement, payout policies, and financial investing to promote operational success. While highlighting the challenges facing modern organizations, readers will learn how corporate social responsibility and utilizing artificial intelligence improve a company's culture and management. This book is an ideal resource for executives and managers, researchers, accountants, and financial investors seeking current research on business operations and management.

Fuzzy Portfolio Optimization With Application Of Forecasting Methods Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Fuzzy Portfolio Optimization With Application Of Forecasting Methods**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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