Multi-criteria Decision Aid in Financial Decision Making: Methodologies and Literature Review

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ABSTRACT

Over the past decades the complexity of financial decisions has increased rapidly, thus highlighting the importance of developing and implementing sophisticated and efficient quantitative analysis techniques for supporting and aiding financial decision making. Multi-criteria decision aid (MCDA), an advanced field of operations research, provides financial decision makers (DMs) and analysts a wide range of methodologies, which are well suited to the complexity of financial decision problems. The aim of this paper is to provide an in-depth presentation of the contributions of MCDA in the field of finance, focusing on the methods used and their real-world applications. Copyright © 2003 John Wiley & Sons, Ltd.

KEY WORDS: multi-criteria decision aid; finance; multiobjective optimization; outranking relations; preference disaggregation analysis; applications

1. INTRODUCTION

During the last decades the globalization of financial markets, the intensifying competition among firms, financial institutions and organizations as well as the rapid economic, social and technological changes, have led to an increasing uncertainty and instability in the financial and business environments. Within this new context the importance of making efficient financial decisions has increased, and the complexity of the financial decision making process has also increased. This complexity is clearly evident in the existing variety and volume of new financial products and services.

In this 'new' reality, financial researchers and practitioners acknowledge the requirement to address financial decision problems through integrated and realistic approaches based on sophisticated quantitative analysis techniques. Thus, the connection between the financial theory and the mathematical modelling become apparent. Techniques from the field of optimization, stochastic processes, simulation, forecasting, decision support systems, MCDA, fuzzy logic, etc. are now considered to be valuable tools for financial decision making.

The wide use of mathematics and operations research in finance began during the 1950s with the introduction of Markowitz's portfolio theory (Markowitz, 1952, 1959). Since then, operations research has contributed to several financial decision-making problems including portfolio selection and management, venture capital investments, bankruptcy prediction, financial planning, corporate mergers and acquisitions, country risk assessment, etc. These contributions are not limited to academic research; they also extend to the daily practice of many corporate entities and organizations.

Within the field of operations research, MCDA has evolved over the last three decades as one major discipline. The development of MCDA is based on the simple finding that a single objective, goal, criterion or point of view is rarely used to make real-world decisions. The MCDA field is devoted to the development of appropriate methodologies that can be used to support and aid DMs in situations where multiple conflicting decision factors (objectives, goals, criteria, etc.) have to be considered simultaneously.

The methodological framework of MCDA is well suited to the complex nature of financial

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Decision Support Systems V – Big Data Analytics for Decision Making Boris Delibašić,Jorge E. Hernández,Jason Papathanasiou,Fátima Dargam,Pascale Zaraté,Rita Ribeiro,Shaofeng Liu,Isabelle Linden,2015-05-18 This book constitutes the refereed proceedings of the First International Conference on Decision Support Systems Technology ICDSST 2015 held in Belgrade Serbia in May 2015 The theme of the event was Big Data Analytics for Decision Making and it was organized by the EURO Association of European Operational Research Societies working group of Decision Support Systems EWG DSS The eight papers presented in this book were selected out of 26 submissions after being carefully reviewed by at least three internationally known experts from the ICDSST 2015 Program Committee and external invited reviewers The selected papers are representative of current and relevant research activities in the area of decision support systems such as decision analysis for enterprise systems and non hierarchical networks integrated solutions for decision support and knowledge management in distributed environments decision support system evaluations and analysis through social networks and decision support system applications in real world environments The volume is completed by an additional invited paper on big data decision making use cases **Big Data and Analytics** Dr. Jugnesh Kumar,Dr. Anubhav Kumar,Dr. Rinku Kumar,2024-03-05 Unveiling insights unleashing potential Navigating the depths of big data and analytics for a data driven tomorrow KEY FEATURES Learn about big data and how it helps businesses innovate grow and make decisions efficiently Learn about data collection storage processing and analysis along with tools and methods Discover real life examples of big data applications across industries addressing challenges like privacy and security DESCRIPTION Big data and analytics is an indispensable guide that navigates the complex data management and analysis This comprehensive book covers the core principles processes and tools ensuring readers grasp the essentials and progress to advanced applications It will help you understand the different analysis types like descriptive predictive and prescriptive Learn about NoSQL databases and their benefits over SQL The book centers on Hadoop explaining its features versions and main components like HDFS storage and MapReduce processing Explore MapReduce and YARN for efficient data processing Gain insights into MongoDB and Hive popular tools in the big data landscape WHAT YOU WILL LEARN Grasp big data fundamentals and applications Master descriptive predictive and prescriptive analytics Understand HDFS MapReduce YARN and their functionalities Explore data storage retrieval and manipulation in a NoSQL database Gain practical insights and apply them to real world scenarios WHO THIS BOOK IS FOR This book caters to a diverse audience including data professionals analysts IT managers and business intelligence practitioners TABLE OF CONTENTS 1 Introduction to Big Data 2 Big Data Analytics 3 Introduction of NoSQL 4 Introduction to Hadoop 5 Map Reduce 6 Introduction to MongoDB Business Statistics for Contemporary Decision Making Ignacio Castillo,Ken Black,Tiffany Bayley,2023-05-15 Show students why business statistics is an increasingly important business skill through a student friendly pedagogy In this fourth Canadian edition of Business Statistics For Contemporary

Decision Making authors Ken Black Tiffany Bayley and Ignacio Castillo uses current real world data to equip students with the business analytics techniques and quantitative decision making skills required to make smart decisions in today s workplace *Networking for Big Data* Shui Yu,Xiaodong Lin,Jelena Misic,Xuemin (Sherman) Shen,2015-07-28 Networking for Big Data supplies an unprecedented look at cutting edge research on the networking and communication aspects of Big Data Starting with a comprehensive introduction to Big Data and its networking issues it offers deep technical coverage of both theory and applications The book is divided into four sections introduction to Big Data <u>Analytics and Knowledge Management</u> Suliman Hawamdeh,Hsia-Ching Chang,2018-08-06 The process of transforming data into actionable knowledge is a complex process that requires the use of powerful machines and advanced analytics technique Analytics and Knowledge Management examines the role of analytics in knowledge management and the integration of big data theories methods and techniques into an organizational knowledge management framework Its chapters written by researchers and professionals provide insight into theories models techniques and applications with case studies examining the use of analytics in organizations The process of transforming data into actionable knowledge is a complex process that requires the use of powerful machines and advanced analytics techniques Analytics on the other hand is the examination interpretation and discovery of meaningful patterns trends and knowledge from data and textual information It provides the basis for knowledge discovery and completes the cycle in which knowledge management and knowledge utilization happen Organizations should develop knowledge focuses on data quality application domain selecting analytics techniques and on how to take actions based on patterns and insights derived from analytics Case studies in the book explore how to perform analytics on social networking and user based data to develop knowledge One case explores analyze data from Twitter feeds Another examines the analysis of data obtained through user feedback One chapter introduces the definitions and processes of social media analytics from different perspectives as well as focuses on techniques and tools used for social media analytics Data visualization has a critical role in the advancement of modern data analytics particularly in the field of business intelligence and analytics It can guide managers in understanding market trends and customer purchasing patterns over time The book illustrates various data visualization tools that can support answering different types of business questions to improve profits and customer relationships This insightful reference concludes with a chapter on the critical issue of cybersecurity It examines the process of collecting and organizing data as well as reviewing various tools for text analysis and data analytics and discusses dealing with collections of large datasets and a great deal of diverse data types from legacy system to social networks platforms <u>Data Analytics for Business Intelligence</u> Zhaohao Sun,2024-12-30 This book studies data analytics and intelligence using Boolean structure Chapters dive into the theories foundations technologies and methods of data analytics and intelligence The primary aim of this book is to convey the theories and technologies of data analytics and intelligence with applications to readers based on systematic generalization and specialization Sun uses the Boolean

structure to deconstruct all books and papers related to data analytics and intelligence and to reorganize them to reshape the world of big data data analytics analytics intelligence data science and artificial intelligence Multi industry applications in business management and decision making are provided Cutting edge theories technologies and applications of data analytics and intelligence and their integration are also explored Overall this book provides original insights on sharing computing insight computing platform computing a calculus of intelligent analytics and intelligent business analytics meta computing data analyticizing DDPP descriptive diagnostic predictive and prescriptive computing and analytics This book is a useful resource with multi industry applications for scientists engineers data analysts educators and university students

Handbook of Research on Foundations and Applications of Intelligent Business Analytics Sun, Zhaohao,Wu, Zhiyou,2022-03-11 Intelligent business analytics is an emerging technology that has become a mainstream market adopted broadly across industries organizations and geographic regions Intelligent business analytics is a current focus for research and development across academia and industries and must be examined and considered thoroughly so businesses can apply the technology appropriately The Handbook of Research on Foundations and Applications of Intelligent Business Analytics examines the technologies and applications of intelligent business analytics and discusses the foundations of intelligent analytics such as intelligent mining intelligent statistical modeling and machine learning Covering topics such as augmented analytics and artificial intelligence systems this major reference work is ideal for scholars engineers professors practitioners researchers industry professionals academicians and students   *Publications of the National Bureau of Standards 1978 Catalog* United States. National Bureau of Standards,1979   Statistical Tutor Data Analysis for Social Scientists Lawrence C. Hamilton,1996-05-06 This handbook is accompanied by the StataQuest software for Windows StataQuest is a professionally developed statistical software with enough capability to be used in any beginning or intermediate statistics course It is also ideal for courses in research methods Examples and step by step instructions for using the StataQuest software are tailored to the needs of students in a statistics for Sociology or Political Science course   **Statistical Analysis** Abdelmonem A. Afifi,S. P. Azen,1979 Introduction to data analysis Elementary statistical inference Regression and correlation analysis The analysis of variance Multivariate statistical methods Review of fundamental concepts   **Marketing Analysis & Decision Making** Darral G. Clarke,1993 This package consisting of text and Harvard cases with accompanying decision analysis spreadsheets shows how marketing analysis can be integrated into the process of making marketing decisions It encourages students to explore real world marketing problems with the help of decision analysis software and demonstrates how the manager without technical training can learn to use the marketing science support tools that are now available   *Record ... with an Appendix, Containing Full Statistical Information from All Departments of the University of Pennsylvania. Published by the Graduating Class of the College Department* ,1892   Linguistics and Language Behavior Abstracts ,1991   Security Analysis for Investment Decisions Boyet Wayne,Wayne E. Boyet,1989 Allows the user to input

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to determine the device temperature if the devicetemperatureselector parameter is available set the parameter to the desired location where the temperature should be measured e g

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below is the python pseudo code you can use to find different component temperatures to get temperature data for the realsense l515 camera you must use librealsense 2 35 2 or above

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insert a visualization in the device tree then the visualization manager is inserted automatically with the targetvisu and webvisu visualization types in addition another visu task is