



Technical Literature Review

Written by: [Your Name]

I. Introduction

The integration of Artificial Intelligence (AI) into educational technology has significantly reshaped pedagogical methods, enhancing personalized learning experiences, and optimizing administrative functions. This review systematically explores these transformations, focusing on current trends and projecting future developments up to 2050 and beyond.

II. Transformative Pedagogical Practices

AI-driven tools have revolutionized traditional educational methodologies. Key innovations include:

- AI-based adaptive learning systems that tailor educational content to individual learning paces and styles.
- Intelligent tutoring systems capable of offering real-time feedback and assistance to students.
- Learning analytics platforms that provide actionable insights to educators by analyzing student performance data.

III. Enhancing Personalized Learning Experiences

Technical Analysis Literature Review

Keng Leng Siau, Fiona Fui-Hoon Nah



Technical Analysis Literature Review:

Technical Analysis: Modern Perspectives Gordon Scott,Michael Carr,Mark Cremonie,2016-11-14 **Statistical Approach to Technical Analysis Literature Review of Technical Analysis Research** Kevin Mfumu-Kanda Dhi,2017 **NIST Building & Fire Research Laboratory Publications** ,1992 **NIST Special Publication** ,1996 **Handbook Of Investment Analysis, Portfolio Management, And Financial Derivatives (In 4 Volumes)** Cheng Few Lee,Alice C Lee,John C Lee,2024-04-08 This four volume handbook covers important topics in the fields of investment analysis portfolio management and financial derivatives Investment analysis papers cover technical analysis fundamental analysis contrarian analysis and dynamic asset allocation Portfolio analysis papers include optimization minimization and other methods which will be used to obtain the optimal weights of portfolio and their applications Mutual fund and hedge fund papers are also included as one of the applications of portfolio analysis in this handbook The topic of financial derivatives which includes futures options swaps and risk management is very important for both academicians and partitioners Papers of financial derivatives in this handbook include i valuation of future contracts and hedge ratio determination ii options valuation hedging and their application in investment analysis and portfolio management and iii theories and applications of risk management Led by worldwide known Distinguished Professor Cheng Few Lee from Rutgers University this multi volume work integrates theoretical methodological and practical issues of investment analysis portfolio management and financial derivatives based on his years of academic and industry experience **Building and Fire Research Laboratory Publications** Building and Fire Research Laboratory (U.S.),1991 [□□K□□□□□□□The Predictive Power of Single-Line Patterns of Candlestick Charting □□](#),2016-07-01 Candlestick technical analysis is an old trading technique that tracks the short term price movements by employing the relationship between open high low and close prices The purpose of this thesis is to examine the predictive power of candlestick trading strategies by using the Taiwan 151 component stocks daily data for the period from 2 January 1992 to 31 December 2009 The main contribution of this thesis is using a fourprice level approach to categorize the single line patterns constructed by candlestick charting in a systematical manner The approach adopted in this thesis permits us to release for the limitation of recognition in a manner not previously possible Moreover we not only consider transaction costs and risk but also mitigate data snooping problems conscientiously by several appropriate methods including the bootstrap methodology and sub sample and out of sample tests We find evidence that four patterns are profitable for the Taiwan stock market after transaction costs including one bullish pattern and three bearish ones K 151 1992 1 2 2009 12 31 K K K K

Research in Finance John W. Kensinger,2013-07-10 The theme of Research in Finance vol 29 is Dealing with Crisis and Regulation showcasing an international spread of chapters such as the European financial crisis and the study of audit qualifications for accounting firms in Spain The international aspect of the volume then shifts to business strategies for competition and finally to regulat **Hedging Strategies Utilizing Technical Analysis** Scott F. Querin,1982 **Research**

Foundation Review 2016 ,2017 The Research Foundation Review 2016 summarizes the offerings from the CFA Institute Research Foundation over the past year monographs literature reviews workshop presentations and other relevant material

Sustainable Digital Technology and Ethics in an Ever-Changing Environment Muneer Al Mubarak,2025-08-02
Digital technology contributes to sustainability as it positively impacts society and environment improves efficiency and minimizes waste It is best functioned when ethics in technology and privacy are fully considered Digital ethics deals with the impact of digital information on societies and the environment Issues that are of concern include privacy information overload Internet addiction and robotics Digital ethics pays special attention to developing rules and moral guidelines that individuals and companies should follow when interacting with technology Digital ethics gives guidelines on what is the right thing to do and wrong thing to avoid No doubt that the emergence of digital technologies such as IoT and AI can improve people s life and organizations efficiency but should be appropriately governed Today s society places a growing emphasis on sustainability and digital technologies as they are essential to attaining sustainable development Digital technologies can be used to lessen negative environmental impact conserve resources and create communities that are more resilient Digital technologies can help to promote sustainability through the utilization of renewable energy sources Sustainable environmental practices can benefit from the transition to digital technology revolution Sustainability solutions are developed and put into practice using a variety of technologies including AI big data analytics IoT social media as well as mobile technology To discover infections that occur in the river systems for instance smart water management systems an AI based technology is being utilized Data obtained from such technologies may be used to analyze the problem of water contamination and create and execute remedies Additionally through lowering waste and carbon emissions AI IoT and Big Data analytics technologies improve the sustainability of corporate activities Technology is an essential aspect of modern life and it has transformed the way people communicate work and interact with each other drastically over the last few decades While technology has brought many benefits it has also created ethical challenges Technology ethics is a field of study that seeks to understand and address the ethical challenges posed by the advancement and development of technology

Stock price analysis through Statistical and Data Science tools: An Overview Vinaitheerthan Renganathan,2021-04-30 Stock price analysis involves different methods such as fundamental analysis and technical analysis which is based on data related to price movement of the stock in the past Price of the stock is affected by various factors such as company s performance current status of economy and political factor These factors play an important role in supply and demand of the stock which makes the price to be volatile in the short term Investors and stock traders aim to book profit through buying and selling the stocks There are different statistical and data science tools are being used to predict the stock price Data Science and Statistical tools assume only the stock price s historical data in predicting the future stock price Statistical tools include measures such as Graph and Charts which depicts the general trend and time series tools such as Auto Regressive Integrated

Moving Averages ARIMA and regression analysis Data Science tools include models like Decision Tree Support Vector Machine SVM Artificial Neural Network ANN and Long Term and Short Term Memory LSTM Models Current methods include carrying out sentiment analysis of tweets comments and other social media discussion to extract the hidden sentiment expressed by the users which indicate the positive or negative sentiment towards the stock price and the company The book provides an overview of the analyzing and predicting stock price movements using statistical and data science tools using R open source software with hypothetical stock data sets It provides a short introduction to R software to enable the user to understand analysis part in the later part The book will not go into details of suggesting when to purchase a stock or what at price The tools presented in the book can be used as a guiding tool in decision making while buying or selling the stock Vinaitheerthan Renganathan www.vinaitheerthan.com/book.php **Smart Computing** Mohammad Ayoub Khan, Sanjay Gairola, Bhola Jha, Pushkar Praveen, 2021-06-22 The field of SMART technologies is an interdependent discipline It involves the latest burning issues ranging from machine learning cloud computing optimisations modelling techniques Internet of Things data analytics and Smart Grids among others that are all new fields It is an applied and multi disciplinary subject with a focus on Specific Measurable Achievable Realistic Timely system operations combined with Machine intelligence Real Time computing It is not possible for any one person to comprehensively cover all aspects relevant to SMART Computing in a limited extent work Therefore these conference proceedings address various issues through the deliberations by distinguished Professors and researchers The SMARTCOM 2020 proceedings contain tracks dedicated to different areas of smart technologies such as Smart System and Future Internet Machine Intelligence and Data Science Real Time and VLSI Systems Communication and Automation Systems The proceedings can be used as an advanced reference for research and for courses in smart technologies taught at graduate level *Computational Intelligence Techniques for Trading and Investment* Christian Dunis, Spiros Likothanassis, Andreas Karathanasopoulos, Georgios Sermpinis, Konstantinos Theofilatos, 2014-03-26 Computational intelligence a sub branch of artificial intelligence is a field which draws on the natural world and adaptive mechanisms in order to study behaviour in changing complex environments This book provides an interdisciplinary view of current technological advances and challenges concerning the application of computational intelligence techniques to financial time series forecasting trading and investment The book is divided into five parts The first part introduces the most important computational intelligence and financial trading concepts while also presenting the most important methodologies from these different domains The second part is devoted to the application of traditional computational intelligence techniques to the fields of financial forecasting and trading and the third part explores the applications of artificial neural networks in these domains The fourth part delves into novel evolutionary based hybrid methodologies for trading and portfolio management while the fifth part presents the applications of advanced computational intelligence modelling techniques in financial forecasting and trading This volume will be useful for graduate and

postgraduate students of finance computational finance financial engineering and computer science Practitioners traders and financial analysts will also benefit from this book

Global Strategies in Banking and Finance Dinçer, Hasan,Hacioğlu, Ümit,2013-10-31 This book explores the concept of a global industry through case studies emerging research and interdisciplinary perspectives applicable to a variety of fields in banking and finance Provided by publisher

Handbook of Exchange Rates Jessica James,Ian Marsh,Lucio Sarno,2012-05-29 Praise for Handbook of Exchange Rates This book is remarkable I expect it to become the anchor reference for people working in the foreign exchange field Richard K Lyons Dean and Professor of Finance Haas School of Business University of California Berkeley It is quite easily the most wide ranging treaty of expertise on the forex market I have ever come across I will be keeping a copy close to my fingertips Jim O Neill Chairman Goldman Sachs Asset Management How should we evaluate the forecasting power of models What are appropriate loss functions for major market participants Is the exchange rate the only means of adjustment Handbook of Exchange Rates answers these questions and many more equipping readers with the relevant concepts and policies for working in today s international economic climate Featuring contributions written by leading specialists from the global financial arena this handbook provides a collection of original ideas on foreign exchange FX rates in four succinct sections Overview introduces the history of the FX market and exchange rate regimes discussing key instruments in the trading environment as well as macro and micro approaches to FX determination Exchange Rate Models and Methods focuses on forecasting exchange rates featuring methodological contributions on the statistical methods for evaluating forecast performance parity relationships fair value models and flow based models FX Markets and Products outlines active currency management currency hedging hedge accounting high frequency and algorithmic trading in FX and FX strategy based products FX Markets and Policy explores the current policies in place in global markets and presents a framework for analyzing financial crises Throughout the book topics are explored in depth alongside their founding principles Each chapter uses real world examples from the financial industry and concludes with a summary that outlines key points and concepts Handbook of Exchange Rates is an essential reference for fund managers and investors as well as practitioners and researchers working in finance banking business and econometrics The book also serves as a valuable supplement for courses on economics business and international finance at the upper undergraduate and graduate levels

Multi-disciplinary Trends in Artificial Intelligence Raghava Morusupalli,Teja Santosh Dandibhotla,Vani Vathsala Atluri,David Windridge,Pawan Lingras,Venkateswara Rao Komati,2023-06-23 The 47 full papers and 24 short papers included in this book were carefully reviewed and selected from 245 submissions These articles cater to the most contemporary and happening topics in the fields of AI that range from Intelligent Recommendation Systems Game Theory Computer Vision Reinforcement Learning Social Networks and Generative AI to Conversational and Large Language Models They are organized into four areas of research Theoretical contributions Cognitive Computing models Computational Intelligence

based algorithms and AI Applications Literature Review Gordon Scott,2017 Supply and demand are cornerstones of economics and the interaction of these forces is believed to explain price changes in all freely traded markets Scarcity tends to result in increased prices and abundance generally leads to lower prices In financial markets technical analysis provides a framework for informing investment management decisions by applying a supply and demand methodology to market prices Technical analysts employ a disciplined systematic approach that seeks to minimize the impact of behavioral biases and emotions that could adversely affect investment performance Analysts employ ratio analysis comparative analysis and other techniques that are similar to the tools developed to analyze financial statements **Recent Trends in Communication and Intelligent Systems** Aditya Kumar Singh Pundir,Anupam Yadav,Swagatam Das,2023-10-27 The book presents best selected research papers presented at the Fourth International Conference on Recent Trends in Communication and Intelligent Systems ICRTCIS 2023 organized by Arya College of Engineering and IT Jaipur on April 28 29 2023 It discusses the latest technologies in communication and intelligent systems covering various areas of communication engineering such as signal processing VLSI design embedded systems wireless communications and electronics and communications in general Featuring work by leading researchers and technocrats the book serves as a valuable reference resource for young researchers and academics as well as practitioners in industry **HCI in Business, Government and Organizations** Keng Leng Siau,Fiona Fui-Hoon Nah,2025-05-25 This two volume set of HCIBGO 2025 constitutes the refereed proceedings of the 12th International Conference on HCI in Business Government and Organizations held as part of the 27th International Conference HCI International 2025 which took place in Gothenburg Sweden during June 22 27 2025 Two volumes of the HCII 2025 proceedings are dedicated to this year s edition of the HCIBGO conference The first volume covers topics related to User Experience Design and Digital Engagement Artificial Intelligence in Digital Transformation and Business Processes and Social Media and Market Insights The second volume focuses on topics related to Roles Skills and Technology Adoption in Modern Workplaces and Collaboration Communication and Work Dynamics

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