

Intelligent Systems with Applications

Editor-in-Chief: Dr. Hua Xu

Applications Of Intelligent Systems For News Analytics In Finance

Časlav Božić



Applications Of Intelligent Systems For News Analytics In Finance:

Applications of Intelligent Systems for News Analytics in Finance Časlav Božić, 2012 **Application of Intelligent Systems in Multi-modal Information Analytics** Vijayan Sugumaran, Zheng Xu, Shankar P., Huiyu Zhou, 2019-03-29 This book presents the proceedings of the 2019 International Conference on Intelligent Systems Applications in Multi modal Information Analytics held in Shenyang China on February 19 20 2019 It provides comprehensive coverage of the latest advances and trends in information technology science and engineering addressing a number of broad themes including data mining multi modal informatics agent based and multi agent systems for health and education informatics which inspire the development of intelligent information technologies The contributions cover a wide range of topics AI applications and innovations in health and education informatics data and knowledge management multi modal application management and web social media mining for multi modal informatics Outlining promising future research directions the book is a valuable resource for students researchers and professionals and provides a useful reference guide for newcomers to the field **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 **The Handbook of News Analytics in Finance** Gautam Mitra, Leela Mitra, 2011-07-13 The Handbook of News Analytics in Finance is a landmark publication bringing together the latest models and applications of News Analytics for asset pricing portfolio construction trading and risk control The content of the Handbook is organised to provide a rapid yet comprehensive understanding of this topic Chapter 1 sets out an overview of News Analytics NA with an explanation of the technology and applications The rest of the chapters are presented in four parts Part 1 contains an explanation of methods and models which are used to measure and quantify news sentiment In Part 2 the relationship between news events and discovery of abnormal returns the elusive alpha is discussed in detail by the leading researchers and industry experts The material in this part also covers potential application of NA to trading and fund management Part 3 covers the use of quantified news for the purpose of monitoring early diagnostics and risk control Part 4 is entirely industry focused it contains insights of experts from leading technology content vendors It also contains a

discussion of technologies and finally a compact directory of content vendor and financial analytics companies in the marketplace of NA. The book draws equally upon the expertise of academics and practitioners who have developed these models and is supported by two major content vendors RavenPack and Thomson Reuters leading providers of news analytics software and machine readable news. The book will appeal to decision makers in the banking finance and insurance services industry. In particular asset managers quantitative fund managers hedge fund managers algorithmic traders proprietary program trading desks sell side firms brokerage houses risk managers and research departments will benefit from the unique insights into this new and pertinent area of financial modelling.

Forecasting High-Frequency Volatility Shocks Holger Kömm, 2016-02-08 This thesis presents a new strategy that unites qualitative and quantitative mass data in form of text news and tick by tick asset prices to forecast the risk of upcoming volatility shocks. Holger Kömm embeds the proposed strategy in a monitoring system using first a sequence of competing estimators to compute the unobservable volatility second a new two state Markov switching mixture model for autoregressive and zero inflated time series to identify structural breaks in a latent data generation process and third a selection of competing pattern recognition algorithms to classify the potential information embedded in unexpected but public observable text data in shock and nonshock information. The monitor is trained tested and evaluated on a two year survey on the prime standard assets listed in the indices DAX MDAX SDAX and TecDAX.

Recent Advancements in Computational Finance and Business Analytics Rangan Gupta, Francesco Bartolucci, Vasilios N. Katsikis, Srikantha Patnaik, 2023-10-29 Recent Advancements of Computational Finance and Business Analytics provide a comprehensive overview of the cutting edge advancements in this dynamic field. By embracing computational finance and business analytics organizations can gain a competitive edge in an increasingly data driven and complex business environment. This book has explored the latest developments and breakthroughs in this rapidly evolving domain providing a comprehensive overview of the current state of computational finance and business analytics. It covers the following dimensions of this domain: Business Analytics Financial Analytics Human Resource Analytics Marketing Analytics.

Analytics in Finance and Risk Management Nga Thi Hong Nguyen, Shivani Agarwal, Ewa Ziemba, 2023-12-26 This book presents contemporary issues and challenges in finance and risk management in a time of rapid transformation due to technological advancements. It includes research articles based on financial and economic data and intends to cover the emerging role of analytics in financial management asset management and risk management. Analytics in Finance and Risk Management covers statistical techniques for data analysis in finance. It explores applications in finance and risk management covering empirical properties of financial systems. It addresses data science involving the study of statistical and computational models and includes basic and advanced concepts. The chapters incorporate the latest methodologies and challenges facing financial and risk management and illustrate related issues and their implications in the real world. The primary users of this book will include researchers academicians postgraduate students professionals in engineering and

business analytics managers consultants and advisors in IT firms financial markets and services domains **Intelligent Automation and Analytics in Finance using Big Data** Rajeswaran Ayyadurai, Karthikeyan Parthasarathy, Naresh Kumar Reddy Panga, Jyothi Bobba, M. M Kamruzzaman, 2024-08-08 **International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD 2024)** Mostafa Ezziyyani, Janusz Kacprzyk, Valentina Emilia Balas, 2025-07-19 This book provides a dynamic platform for exploring groundbreaking advancements in intelligent systems for sustainable development It offers readers access to the latest technologies and innovative solutions that address global challenges Bringing together leading academics pioneering researchers and industry leaders fosters knowledge exchange across various fields such as health education agriculture energy and security It enables readers to gain valuable insights build strategic partnerships and contribute to shaping a more sustainable future This book bridges scientific research with practical applications and is ideal for researchers practitioners and decision makers driving progress across multiple disciplines **Data-Driven Business Intelligence Systems for Socio-Technical Organizations** Keikhosrokiani, Pantea, 2024-04-09 The convergence of modern technology and social dynamics have shaped the very fabric of today's organizations making the role of Business Intelligence BI profoundly significant Data Driven Business Intelligence Systems for Socio Technical Organizations delves into the heart of this transformative realm offering an academic exploration of the tools strategies and methodologies that propel enterprises toward data driven decision making excellence Socio technical organizations with their intricate interplay between human and technological components require a unique approach to BI This book embarks on a comprehensive journey revealing how BI tools empower these entities to decipher the complexities of their data landscape From user behavior to social interactions technological systems to environmental factors this work sheds light on the multifaceted sources of information that inform organizational strategies Decision makers within socio technical organizations leverage BI insights to discern patterns spot trends and uncover correlations that influence operations and the intricate social dynamics within their entities Research covering real time monitoring and predictive analytics equips these organizations to respond swiftly to demands and anticipate future trends harnessing the full potential of data The book delves into their design development and architectural nuances illuminating these concepts through case studies This book is ideal for business executives entrepreneurs data analysts marketers government officials educators and researchers

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