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KEY=INVESTMENT - GWENDOLYN GRIFFIN

Stock Market Probability Using Statistics to Predict and Optimize Investment Outcomes Stock Market Probability Using Statistics to Predict and Optimize Investment Outcomes McGraw-Hill Companies This book describes how to use statistical techniques to manage risk and improve returns. By estimating the probability of various investment outcomes in advance, investors can make better-informed decisions. Joseph Murphy shows how statistical tools and techniques such as standard deviation, dispersion and distributions can be profitably applied to the stock market. Completely updated and revised it provides investors with a sound and rational method for beating the market. Specific topics include: Statistics and historic stock market returns; Calculate the odds of an advance or decline in a stock; Estimate returns on a mutual fund; Diversification through time; The five laws of finance. Developing Human Capital Using Analytics to Plan and Optimize Your Learning and Development Investments John Wiley & Sons Don't squander your most valuable resource! Collectively, your workers are your company's most important and most valuable asset. To make the most of this asset, nothing beats quantitative performance and investment measurement. Learning and Development is an 80 billion-dollar industry, and every valuable employee represents a sizable investment on the part of your company. To keep your business moving forward, effective management of human capital is crucial. It generates plenty of data, and deep analysis of this data helps you provide feedback and make adjustments to capitalize on the combined knowledge, skills, and creativity of your workers. Developing Human

Capital: Using Analytics to Plan and Optimize Your Learning and Development Investments provides a guidebook for collecting, organizing, and analyzing the data surrounding human capital so you can make the most of your employees' potential. Use predictive analysis to optimize human capital investments Learn effective study design and alignment Get the tools you need for measurement, surveys, and analysis Decide what to measure and how to measure it Outline your company's current and future analytics technology needs Map data sources, and overcome barriers to data collection Authors Gene Pease, Bonnie Beresford, and Lew Walker provide case studies in which major companies applied human capital analytics to guide people decisions, and expand upon the role of analytics in Learning and Development. Developing Human Capital: Using Analytics to Plan and Optimize Your Learning and Development Investments is an essential guide to 21st century human resources and management practices, and can keep you from squandering your company's most valuable resource. Financial Data Analytics with Machine Learning, Optimization and Statistics Wiley An essential introduction to data analytics and Machine Learning techniques in the business sector In Financial Data Analytics with Machine Learning, Optimization and Statistics, a team consisting of a distinguished applied mathematician and statistician, experienced actuarial professionals and working data analysts delivers an expertly balanced combination of traditional financial statistics, effective machine learning tools, and mathematics. The book focuses on contemporary techniques used for data analytics in the financial sector and the insurance industry with an emphasis on mathematical understanding and statistical principles and connects them with common and practical financial problems. Each chapter is equipped with derivations and proofs—especially of key results—and includes several realistic examples which stem from common financial contexts. The computer algorithms in the book are implemented using Python and R, two of the most widely used programming languages for applied science and in academia and industry, so that readers can implement the relevant models and use the programs themselves. The book begins with a brief introduction to basic sampling theory and the fundamentals of simulation techniques, followed by a comparison between R and Python. It then discusses statistical diagnosis for financial security data and introduces some common tools in financial forensics such as Benford's Law, Zipf's Law, and anomaly detection. The statistical estimation and Expectation-Maximization (EM) & Majorization-Minimization (MM) algorithms are also covered. The book next focuses on univariate and multivariate dynamic volatility and correlation forecasting, and emphasis is placed on the celebrated Kelly's formula, followed by a brief introduction to quantitative risk management and dependence modelling for extremal events. A practical topic on numerical finance for traditional option pricing and Greek computations immediately follows as well as other important topics in financial data-driven aspects, such as Principal Component Analysis (PCA) and recommender systems with their

applications, as well as advanced regression learners such as kernel regression and logistic regression, with discussions on model assessment methods such as simple Receiver Operating Characteristic (ROC) curves and Area Under Curve (AUC) for typical classification problems. The book then moves on to other commonly used machine learning tools like linear classifiers such as perceptrons and their generalization, the multilayered counterpart (MLP), Support Vector Machines (SVM), as well as Classification and Regression Trees (CART) and Random Forests. Subsequent chapters focus on linear Bayesian learning, including well-received credibility theory in actuarial science and functional kernel regression, and non-linear Bayesian learning, such as the Naïve Bayes classifier and the Comonotone-Independence Bayesian Classifier (CIBer) recently independently developed by the authors and used successfully in InsurTech. After an in-depth discussion on cluster analyses such as K-means clustering and its inversion, the K-nearest neighbor (KNN) method, the book concludes by introducing some useful deep neural networks for FinTech, like the potential use of the Long-Short Term Memory model (LSTM) for stock price prediction. This book can help readers become well-equipped with the following skills: To evaluate financial and insurance data quality, and use the distilled knowledge obtained from the data after applying data analytic tools to make timely financial decisions To apply effective data dimension reduction tools to enhance supervised learning To describe and select suitable data analytic tools as introduced above for a given dataset depending upon classification or regression prediction purpose The book covers the competencies tested by several professional examinations, such as the Predictive Analytics Exam offered by the Society of Actuaries, and the Institute and Faculty of Actuaries' Actuarial Statistics Exam. Besides being an indispensable resource for senior undergraduate and graduate students taking courses in financial engineering, statistics, quantitative finance, risk management, actuarial science, data science, and mathematics for AI, Financial Data Analytics with Machine Learning, Optimization and Statistics also belongs in the libraries of aspiring and practicing quantitative analysts working in commercial and investment banking. Encyclopedia of Business Analytics and Optimization IGI Global As the age of Big Data emerges, it becomes necessary to take the five dimensions of Big Data- volume, variety, velocity, volatility, and veracity- and focus these dimensions towards one critical emphasis - value. The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal. Data Science: New Issues, Challenges and Applications Springer Nature This book contains 16 chapters by researchers working in various fields of data

science. They focus on theory and applications in language technologies, optimization, computational thinking, intelligent decision support systems, decomposition of signals, model-driven development methodologies, interoperability of enterprise applications, anomaly detection in financial markets, 3D virtual reality, monitoring of environmental data, convolutional neural networks, knowledge storage, data stream classification, and security in social networking. The respective papers highlight a wealth of issues in, and applications of, data science. Modern technologies allow us to store and transfer large amounts of data quickly. They can be very diverse - images, numbers, streaming, related to human behavior and physiological parameters, etc. Whether the data is just raw numbers, crude images, or will help solve current problems and predict future developments, depends on whether we can effectively process and analyze it. Data science is evolving rapidly. However, it is still a very young field. In particular, data science is concerned with visualizations, statistics, pattern recognition, neurocomputing, image analysis, machine learning, artificial intelligence, databases and data processing, data mining, big data analytics, and knowledge discovery in databases. It also has many interfaces with optimization, block chaining, cyber-social and cyber-physical systems, Internet of Things (IoT), social computing, high-performance computing, in-memory key-value stores, cloud computing, social computing, data feeds, overlay networks, cognitive computing, crowdsource analysis, log analysis, container-based virtualization, and lifetime value modeling. Again, all of these areas are highly interrelated. In addition, data science is now expanding to new fields of application: chemical engineering, biotechnology, building energy management, materials microscopy, geographic research, learning analytics, radiology, metal design, ecosystem homeostasis investigation, and many others. Machine Learning, Optimization, and Data Science 7th International Conference, LOD 2021, Grasmere, UK, October 4–8, 2021, Revised Selected Papers, Part II Springer Nature Practical Text Mining and Statistical Analysis for Non-structured Text Data Applications Academic Press Practical Text Mining and Statistical Analysis for Non-structured Text Data Applications brings together all the information, tools and methods a professional will need to efficiently use text mining applications and statistical analysis. Winner of a 2012 PROSE Award in Computing and Information Sciences from the Association of American Publishers, this book presents a comprehensive how-to reference that shows the user how to conduct text mining and statistically analyze results. In addition to providing an in-depth examination of core text mining and link detection tools, methods and operations, the book examines advanced preprocessing techniques, knowledge representation considerations, and visualization approaches. Finally, the book explores current real-world, mission-critical applications of text mining and link detection using real world example tutorials in such varied fields as corporate, finance, business intelligence, genomics research, and counterterrorism activities. The world contains an

unimaginably vast amount of digital information which is getting ever vaster ever more rapidly. This makes it possible to do many things that previously could not be done: spot business trends, prevent diseases, combat crime and so on. Managed well, the textual data can be used to unlock new sources of economic value, provide fresh insights into science and hold governments to account. As the Internet expands and our natural capacity to process the unstructured text that it contains diminishes, the value of text mining for information retrieval and search will increase dramatically. Extensive case studies, most in a tutorial format, allow the reader to 'click through' the example using a software program, thus learning to conduct text mining analyses in the most rapid manner of learning possible Numerous examples, tutorials, power points and datasets available via companion website on Elsevierdirect.com Glossary of text mining terms provided in the appendix Optimization Based Data Mining: Theory and Applications Springer Science & Business Media Optimization techniques have been widely adopted to implement various data mining algorithms. In addition to well-known Support Vector Machines (SVMs) (which are based on quadratic programming), different versions of Multiple Criteria Programming (MCP) have been extensively used in data separations. Since optimization based data mining methods differ from statistics, decision tree induction, and neural networks, their theoretical inspiration has attracted many researchers who are interested in algorithm development of data mining. Optimization based Data Mining: Theory and Applications, mainly focuses on MCP and SVM especially their recent theoretical progress and real-life applications in various fields. These include finance, web services, bio-informatics and petroleum engineering, which has triggered the interest of practitioners who look for new methods to improve the results of data mining for knowledge discovery. Most of the material in this book is directly from the research and application activities that the authors' research group has conducted over the last ten years. Aimed at practitioners and graduates who have a fundamental knowledge in data mining, it demonstrates the basic concepts and foundations on how to use optimization techniques to deal with data mining problems. Scenarios for Risk Management and Global Investment Strategies Wiley This book discusses scenarios for risk management and developing global investment strategies. What are the chances that various future events will occur over time and how should these events and probable occurrence influence investment decisions? Assessing all possible outcomes is fundamental to risk management, financial engineering and investment and hedge fund strategies. A careful consideration of future scenarios will lead to better investment decisions and avoid financial disasters. The book presents tools and case studies around the world for analyzing a wide variety of investment strategies, building scenarios to optimize returns. ICT Innovations 2019. Big Data Processing and Mining 11th International Conference, ICT Innovations 2019, Ohrid, North Macedonia, October 17–19, 2019, Proceedings Springer Nature This book constitutes the refereed

proceedings of the 11th International ICT Innovations Conference, ICT Innovations 2019, held in Ohrid, Macedonia, in October 2019. The 18 full papers presented were carefully reviewed and selected from 75 submissions. They cover the following topics: sensor applications and deployments, embedded and cyber-physical systems, robotics, network architectures, cloud computing, software infrastructure, software creation and management, models of computation, computational complexity and cryptography, design and analysis of algorithms, mathematical optimization, probability and statistics, data management systems, data mining, human computer interaction (HCI), artificial intelligence, machine learning, life and medical sciences, health care information systems, bioinformatics. The Systemic Dimension of Globalization BoD – Books on Demand Today science is moving in the direction of synthesis of the achievements of various academic disciplines. The idea to prepare and present to the international academic milieu, a multidimensional approach to globalization phenomenon is an ambitious undertaking. The book The Systemic Dimension of Globalization consists of 14 chapters divided into three sections: Globalization and Complex Systems; Globalization and Social Systems; Globalization and Natural Systems. The Authors of respective chapters represent a great diversity of disciplines and methodological approaches as well as a variety of academic culture. This is the value of this book and this merit will be appreciated by a global community of scholars. A Set of Examples of Global and Discrete Optimization Applications of Bayesian Heuristic Approach Springer Science & Business Media This book shows how the Bayesian Approach (BA) improves well known heuristics by randomizing and optimizing their parameters. That is the Bayesian Heuristic Approach (BHA). The ten in-depth examples are designed to teach Operations Research using Internet. Each example is a simple representation of some impor tant family of real-life problems. The accompanying software can be run by remote Internet users. The supporting web-sites include software for Java, C++, and other lan guages. A theoretical setting is described in which one can discuss a Bayesian adaptive choice of heuristics for discrete and global optimization prob lems. The techniques are evaluated in the spirit of the average rather than the worst case analysis. In this context, "heuristics" are understood to be an expert opinion defining how to solve a family of problems of dis crete or global optimization. The term "Bayesian Heuristic Approach" means that one defines a set of heuristics and fixes some prior distribu tion on the results obtained. By applying BHA one is looking for the heuristic that reduces the average deviation from the global optimum. The theoretical discussions serve as an introduction to examples that are the main part of the book. All the examples are interconnected. Dif ferent examples illustrate different points of the general subject. How ever, one can consider each example separately, too. Data Science in Context Foundations, Challenges, Opportunities Cambridge University Press Four leading experts convey the promise of data science and examine

challenges in achieving its benefits and mitigating some harms. Handbook of Research on Strategic Performance Management and Measurement Using Data Envelopment Analysis IGI Global Organizations can use the valuable tool of data envelopment analysis (DEA) to make informed decisions on developing successful strategies, setting specific goals, and identifying underperforming activities to improve the output or outcome of performance measurement. The Handbook of Research on Strategic Performance Management and Measurement Using Data Envelopment Analysis highlights the advantages of using DEA as a tool to improve business performance and identify sources of inefficiency in public and private organizations. These recently developed theories and applications of DEA will be useful for policymakers, managers, and practitioners in the areas of sustainable development of our society including environment, agriculture, finance, and higher education sectors. Smart Data Enterprise Performance Optimization Strategy John Wiley & Sons The authors advocate attention to smart data strategy as an organizing element of enterprise performance optimization. They believe that "smart data" as a corporate priority could revolutionize government or commercial enterprise performance much like "six sigma" or "total quality" as organizing paradigms have done in the past. This revolution has not yet taken place because data historically resides in the province of the information resources organization. Solutions that render data smart are articulated in "technoid" terms versus the language of the board room. While books such as Adaptive Information by Pollock and Hodgson ably describe the current state of the art, their necessarily technical tone is not conducive to corporate or agency wide qualitative change. Sustainable & Responsible Investing 360° Lessons Learned from World Class Investors Rowman & Littlefield A must-read for anyone struggling to understand Impact Investing, ESG, SRI, and the myriad terms used to describe investing for positive impact. Hear from 27 experts managing trillions in funds about why sustainable and responsible investing matters, how they perform, and what the future of this investment strategy is. 2020 International Conference on Data Processing Techniques and Applications for Cyber-Physical Systems DPTA 2020 Springer Nature This book covers cutting-edge and advanced research on data processing techniques and applications for cyber-physical systems, gathering the proceedings of the International Conference on Data Processing Techniques and Applications for Cyber-Physical Systems (DPTA 2020), held in Laibin City, Guangxi Province, China, on December 11–12, 2020. It examines a wide range of topics, including distributed processing for sensor data in CPS networks; approximate reasoning and pattern recognition for CPS networks; data platforms for efficient integration with CPS networks; machine learning algorithms for CPS networks; and data security and privacy in CPS networks. Outlining promising future research directions, the book offers a valuable resource for students, researchers, and professionals alike, while also providing a useful reference guide for newcomers to the field. Data

Science Fundamentals and Practical Approaches Understand Why Data Science Is the Next BPB Publications Learn how to process and analysis data using Python KEY FEATURES - The book has theories explained elaborately along with Python code and corresponding output to support the theoretical explanations. The Python codes are provided with step-by-step comments to explain each instruction of the code. - The book is not just dealing with the background mathematics alone or only the programs but beautifully correlates the background mathematics to the theory and then finally translating it into the programs. - A rich set of chapter-end exercises are provided, consisting of both short-answer questions and long-answer questions. DESCRIPTION This book introduces the fundamental concepts of Data Science, which has proved to be a major game-changer in business solving problems. Topics covered in the book include fundamentals of Data Science, data preprocessing, data plotting and visualization, statistical data analysis, machine learning for data analysis, time-series analysis, deep learning for Data Science, social media analytics, business analytics, and Big Data analytics. The content of the book describes the fundamentals of each of the Data Science related topics together with illustrative examples as to how various data analysis techniques can be implemented using different tools and libraries of Python programming language. Each chapter contains numerous examples and illustrative output to explain the important basic concepts. An appropriate number of questions is presented at the end of each chapter for self-assessing the conceptual understanding. The references presented at the end of every chapter will help the readers to explore more on a given topic. WHAT WILL YOU LEARN Perform processing on data for making it ready for visual plot and understand the pattern in data over time. Understand what machine learning is and how learning can be incorporated into a program. Know how tools can be used to perform analysis on big data using python and other standard tools. Perform social media analytics, business analytics, and data analytics on any data of a company or organization. WHO THIS BOOK IS FOR The book is for readers with basic programming and mathematical skills. The book is for any engineering graduates that wish to apply data science in their projects or wish to build a career in this direction. The book can be read by anyone who has an interest in data analysis and would like to explore more out of interest or to apply it to certain real-life problems. TABLE OF CONTENTS 1. Fundamentals of Data Science1 2. Data Preprocessing 3. Data Plotting and Visualization 4. Statistical Data Analysis 5. Machine Learning for Data Science 6. Time-Series Analysis 7. Deep Learning for Data Science 8. Social Media Analytics 9. Business Analytics 10. Big Data Analytics Fuzzy Systems and Data Mining V Proceedings of FSDM 2019 IOS Press The Fuzzy Systems and Data Mining (FSDM) conference is an annual event encompassing four main themes: fuzzy theory, algorithms and systems, which includes topics like stability, foundations and control; fuzzy application, which covers different kinds of processing as well as hardware and architectures for big

data and time series and has wide applicability; the interdisciplinary field of fuzzy logic and data mining, encompassing applications in electrical, industrial, chemical and engineering fields as well as management and environmental issues; and data mining, outlining new approaches to big data, massive data, scalable, parallel and distributed algorithms. The annual conference provides a platform for knowledge exchange between international experts, researchers, academics and delegates from industry. This book includes the papers accepted and presented at the 5th International Conference on Fuzzy Systems and Data Mining (FSDM 2019), held in Kitakyushu, Japan on 18-21 October 2019. This year, FSDM received 442 submissions. All papers were carefully reviewed by program committee members, taking account of the quality, novelty, soundness, breadth and depth of the research topics falling within the scope of FSDM. The committee finally decided to accept 137 papers, which represents an acceptance rate of about 30%. The papers presented here are arranged in two sections: Fuzzy Sets and Data Mining, and Communications and Networks. Providing an overview of the most recent scientific and technological advances in the fields of fuzzy systems and data mining, the book will be of interest to all those working in these fields. Financial Analytics with R Cambridge University Press Financial Analytics with R sharpens readers' skills in time-series, forecasting, portfolio selection, covariance clustering, prediction, and derivative securities. Strategic Marketing Creating Competitive Advantage Oxford University Press, USA This text discusses how companies create competitive advantage through strategic marketing. Using established frameworks and concepts, it examines aspects of marketing strategy and thinking. It provides examples to facilitate the understanding of theoretical concepts. Bridge Maintenance, Safety, Management and Life-Cycle Optimization Proceedings of the Fifth International IABMAS Conference, Philadelphia, USA, 11-15 July 2010 CRC Press Bridge Maintenance, Safety, Management and Life-Cycle Optimization contains the lectures and papers presented at IABMAS 2010, the Fifth International Conference of the International Association for Bridge Maintenance and Safety (IABMAS), held in Philadelphia, Pennsylvania, USA from July 11 through 15, 2010. All major aspects of bridge maintenance, safety, management and life-cycle optimization are addressed including advanced and high performance materials, ageing of bridges, assessment and evaluation, bridge codes, bridge diagnostics, bridge management systems, bridge security, composites, design for durability, deterioration modeling, emerging technologies, fatigue, field testing, financial planning, health monitoring, innovations, inspection, life-cycle performance, load capacity assessment, loads, maintenance strategies, new technical and materials concepts, non-destructive testing, optimization strategies, prediction of future traffic demands, rehabilitation, reliability and risk management, repair, replacement, residual service life, safety and serviceability, service life prediction, strengthening, sustainable materials for bridges, sustainable bridges, whole-life costing, and multi-

criteria optimization, among others. Bridge Maintenance, Safety, Management and Life-Cycle Optimization consists of a book of abstracts and a CD-ROM containing the full text of the lectures and papers presented at IABMAS 2010. This set provides both an up-to-date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions in bridge maintenance, safety, security, serviceability, risk-based management, and health monitoring using traditional and emerging technologies for the purpose of enhancing the welfare of society. Disruptive Technologies for Big Data and Cloud Applications Proceedings of ICBDCC 2021 Springer Nature This book provides a written record of the synergy that already exists among the research communities and represents a solid framework in the advancement of big data and cloud computing disciplines from which new interaction will result in the future. This book is a compendium of the International Conference on Big Data and Cloud Computing (ICBDCC 2021). It includes recent advances in big data analytics, cloud computing, the Internet of nano things, cloud security, data analytics in the cloud, smart cities and grids, etc. This book primarily focuses on the application of knowledge that promotes ideas for solving the problems of society through cutting-edge technologies. The articles featured in this book provide novel ideas that contribute to the growth of world-class research and development. The contents of this book are of interest to researchers and professionals alike. Emerging Technologies in Computing Second International Conference, iCETiC 2019, London, UK, August 19–20, 2019, Proceedings Springer This book constitutes the refereed conference proceedings of the Second International Conference on Emerging Technologies in Computing, iCEtiC 2019, held in London, UK, in August 2019. The 24 revised full papers were reviewed and selected from 52 submissions and are organized in topical sections covering blockchain and cloud computing, security, wireless sensor networks and Internet of Things, (IoT), FinTech, AI, big data and data analytics. Modern Portfolio Optimization with NuOPTTM, S-PLUS®, and S+BayesTM Springer Science & Business Media In recent years portfolio optimization and construction methodologies have become an increasingly critical ingredient of asset and fund management, while at the same time portfolio risk assessment has become an essential ingredient in risk management. This trend will only accelerate in the coming years. This practical handbook fills the gap between current university instruction and current industry practice. It provides a comprehensive computationally-oriented treatment of modern portfolio optimization and construction methods using the powerful NUOPT for S-PLUS optimizer. Portfolio Optimization Using Data Envelopment Analysis & Sharpe's Method Due to the advancement of Information Technology it has been easier for investors to invest valuable money in portfolios. There has been availability of tools & data all the time to predict the market in decision-making, for which some models have been developed. With the rigorous research in this attractive topic some

mathematical models have been developed & some models from other industries have been considered. Models like Sharpe, Genetic Algorithm, and Monte-Carlo are very helpful in investment decision making. DEA model, originated from production industry, helps in selecting securities for portfolio. In this paper we have exquisitely tried to find out the best method for selection of efficient securities using historical data of BSE-30 industries & compared DEA, Sharpe's model with Market, which gives some exciting results for future investment. The Handbook of Social Psychology Oxford University Press Leading experts from all areas of social psychology contribute to a discussion of new scientific methods and analytic techniques and look at research advances in their respective specialties. Handbook of Research on Holistic Optimization Techniques in the Hospitality, Tourism, and Travel Industry IGI Global The application of holistic optimization methods in the tourism, travel, and hospitality industry has improved customer service and business strategies within the field. By utilizing new technologies and optimization techniques, it is becoming easier to troubleshoot problematic areas within the travel industry. The Handbook of Research on Holistic Optimization Techniques in the Hospitality, Tourism, and Travel Industry features innovative technologies being utilized in the management of hotels and tourist attractions. Highlighting empirical research on the optimization of the travel and hospitality industry through the use of algorithms and information technology, this book is a critical reference source for managers, decision makers, executives, tourists, agents, researchers, economists, and hotel staff members. Analytical Skills for AI and Data Science Building Skills for an AI-Driven Enterprise While several market-leading companies have successfully transformed their business models by following data- and AI-driven paths, the vast majority have yet to reap the benefits. How can your business and analytics units gain a competitive advantage by capturing the full potential of this predictive revolution? This practical guide presents a battle-tested end-to-end method to help you translate business decisions into tractable prescriptive solutions using data and AI as fundamental inputs. Author Daniel Vaughan shows data scientists, analytics practitioners, and others interested in using AI to transform their businesses not only how to ask the right questions but also how to generate value using modern AI technologies and decision-making principles. You'll explore several use cases common to many enterprises, complete with examples you can apply when working to solve your own issues. Break business decisions into stages that can be tackled using different skills from the analytical toolbox Identify and embrace uncertainty in decision making and protect against common human biases Customize optimal decisions to different customers using predictive and prescriptive methods and technologies Ask business questions that create high value through AI- and data-driven technologies Web, Artificial Intelligence and Network Applications Proceedings of the Workshops of the 33rd International Conference on Advanced Information Networking and

Applications (WAINA-2019) Springer The aim of the book is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to the emerging areas of Web Computing, Intelligent Systems and Internet Computing. As the Web has become a major source of information, techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play key roles in many of today's prominent Web applications such as e-commerce and computer security. Moreover, the outcome of Web services delivers a new platform for enabling service-oriented systems. The emergence of large scale distributed computing paradigms, such as Cloud Computing and Mobile Computing Systems, has opened many opportunities for collaboration services, which are at the core of any Information System. Artificial Intelligence (AI) is an area of computer science that build intelligent systems and algorithms that work and react like humans. The AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning. They have the potential to become enabling technologies for the future intelligent networks. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences are very important for the future development and innovation of Web and Internet applications. Advances in Data Computing, Communication and Security Proceedings of I3CS2021 Springer Nature This book is a collection of high-quality peer reviewed contributions from the academicians, researchers, practitioners, and industry professionals, accepted in the International Conference on Advances in Data Computing, Communication and Security (I3CS2021) organized by the Department of Electronics and Communication Engineering in collaboration with the Department of Computer Engineering, National Institute of Technology, Kurukshetra, India during 08-10 Sep 2021. The fast pace of advancing technologies and growing expectations of the next-generation requires that the researchers must continuously reinvent themselves through new investigations and development of the new products. The theme of this conference is devised as "Embracing Innovations" for the next-generation data computing and secure communication system. International Conference on Intelligent Computing: Intelligent computing Springer Science & Business Media This book constitutes the refereed proceedings of the International Conference on Intelligent Computing, ICIC 2006, held in Kunming, China, August 2006. The book collects 161 carefully chosen and revised full papers. Topical sections include neural networks, evolutionary computing and genetic algorithms, kernel methods, combinatorial and numerical optimization, multiobjective evolutionary algorithms, neural optimization and dynamic programming, as well as case-based reasoning and probabilistic reasoning. Optimization and Its Applications in Control and Data Sciences In Honor of Boris T. Polyak's 80th Birthday Springer This book focuses on recent

research in modern optimization and its implications in control and data analysis. This book is a collection of papers from the conference "Optimization and Its Applications in Control and Data Science" dedicated to Professor Boris T. Polyak, which was held in Moscow, Russia on May 13-15, 2015. This book reflects developments in theory and applications rooted by Professor Polyak's fundamental contributions to constrained and unconstrained optimization, differentiable and nonsmooth functions, control theory and approximation. Each paper focuses on techniques for solving complex optimization problems in different application areas and recent developments in optimization theory and methods. Open problems in optimization, game theory and control theory are included in this collection which will interest engineers and researchers working with efficient algorithms and software for solving optimization problems in market and data analysis. Theoreticians in operations research, applied mathematics, algorithm design, artificial intelligence, machine learning, and software engineering will find this book useful and graduate students will find the state-of-the-art research valuable. Real-World Data Mining Applied Business Analytics and Decision Making FT Press Use the latest data mining best practices to enable timely, actionable, evidence-based decision making throughout your organization! Real-World Data Mining demystifies current best practices, showing how to use data mining to uncover hidden patterns and correlations, and leverage these to improve all aspects of business performance. Drawing on extensive experience as a researcher, practitioner, and instructor, Dr. Dursun Delen delivers an optimal balance of concepts, techniques and applications. Without compromising either simplicity or clarity, he provides enough technical depth to help readers truly understand how data mining technologies work. Coverage includes: processes, methods, techniques, tools, and metrics; the role and management of data; text and web mining; sentiment analysis; and Big Data integration. Throughout, Delen's conceptual coverage is complemented with application case studies (examples of both successes and failures), as well as simple, hands-on tutorials. Real-World Data Mining will be valuable to professionals on analytics teams; professionals seeking certification in the field; and undergraduate or graduate students in any analytics program: concentrations, certificate-based, or degree-based. Intelligent Computing International Conference on Intelligent Computing, ICIC 2006, Kunming, China, August 16-19, 2006, Proceedings, Part I Springer This book constitutes the refereed proceedings of the International Conference on Intelligent Computing, ICIC 2006, held in Kunming, China, August 2006. The book collects 161 carefully chosen and revised full papers. Topical sections include neural networks, evolutionary computing and genetic algorithms, kernel methods, combinatorial and numerical optimization, multiobjective evolutionary algorithms, neural optimization and dynamic programming, as well as case-based reasoning and probabilistic reasoning. Proceedings of the Tenth International Conference on Management Science and Engineering

Management Springer This book presents the proceedings of the Tenth International Conference on Management Science and Engineering Management (ICMSEM2016) held from August 30 to September 02, 2016 at Baku, Azerbaijan and organized by the International Society of Management Science and Engineering Management, Sichuan University (Chengdu, China) and Ministry of Education of Azerbaijan. The aim of conference was to foster international research collaborations in management science and engineering management as well as to provide a forum to present current research findings. The presented papers were selected and reviewed by the Program Committee, made up of respected experts in the area of management science and engineering management from around the globe. The contributions focus on identifying management science problems in engineering, innovatively using management theory and methods to solve engineering problems effectively and establishing novel management theories and methods to address new engineering management issues. Advances in Artificial Intelligence 22nd Canadian Conference on Artificial Intelligence, Canadian AI 2009, Kelowna, Canada, May 25-27, 2009 Proceedings Springer This book constitutes the refereed proceedings of the 22st Conference of the Canadian Society for Computational Studies of Intelligence, Canadian AI 2009, held in Windsor, Canada, in May 2008. The 30 revised full papers presented together with 5 revised short papers and 8 papers from the graduate student symposium were carefully reviewed and selected from 75 submissions. The papers present original high-quality research in all areas of Artificial Intelligence and apply historical AI techniques to modern problem domains as well as recent techniques to historical problem settings. APPLIED MARKETING ANALYTICS USING SPSS MODELER, STATISTICS AND AMOS GRAPHICS PHI Learning Pvt. Ltd. Marketing analytics is important to today's business organizations as it lets them measure performance of their marketing resources and channels and in turn plays a vital role in making business strategies and decisions. The present book, following application-based approach, helps readers to understand the usage of analytics in different marketing contexts such as identifying customer preferences, customer-segmentation, pricing, forecasting, advertising, competitive analysis, perceptual mapping, etc. using SPSS software (Modeler, Statistics and AMOS Graphics). Practical applications in each chapter, with supported screenshots, guide readers to apply different analytical techniques in marketing as they learn. This book is an indispensable companion for the postgraduate students of management with specialization in marketing. Also, the book will prove valuable for the Management Development Programs, Data Analysts, and Researchers in the field. It enables them to identify marketing problems, carry out research efficiently, process the data in a simple way using SPSS, and create reports in a systematic manner. TARGET AUDIENCE • MBA (Marketing) • Data Analysts • Management Development Programme State-of-the-art Laser Gas Sensing Technologies MDPI Trace gas sensing technologies are widely used in many

applications, such as environmental monitoring, life science, medical diagnostics, and planetary exploration. On the one hand, laser sources have developed greatly due to the rapid development of laser media and laser techniques in recent years. Some novel lasers such as solid-state, diode, and quantum cascade lasers have experienced significant progress. At present, laser wavelengths can cover the range from ultraviolet to terahertz, which could promote the development of laser gas sensing technologies significantly. On the other hand, some new gas sensing methods have appeared, such as photothermal spectroscopy and photoacoustic spectroscopy. Laser spectroscopy-based gas sensing techniques have the advantages of high sensitivity, non-invasiveness, and allowing in situ, real-time observation. Due to the rapid and recent developments in laser source as well as the great merits of laser spectroscopy-based gas sensing techniques, this book aims to provide an updated overview of the state-of-the-art laser gas sensing technologies.