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Corporate Governance Practices in India Priyanka Kaushik Sharma 2015-06-17 Corporate Governance Practices in India examines corporate governance practice in Indian industry. This book critically analyses the governance practice and evaluates the needs of corporate governance in the two major industries in India: Auto Industry and Heavy Engineering Industry.
The Return of the Policy That Shall Not Be Named: Principles of Industrial Policy Reda Cherif 2019-03-26 Industrial policy is tainted with bad reputation among policymakers and academics and is often viewed as the road to perdition for developing economies. Yet the success of the Asian Miracles with industrial policy stands as an uncomfortable story that many ignore or claim it cannot be replicated. Using a theory and empirical evidence, we argue that one can learn more from miracles than failures. We suggest three key principles behind their success: (i) the support of domestic producers in sophisticated industries, beyond the initial comparative advantage; (ii) export orientation; and (iii) the pursuit of fierce competition with strict accountability.
Knowledge Engineering and Management Yinglin Wang 2011-11-25 Proceedings of the Sixth International Conference on Intelligent System and Knowledge Engineering presents selected papers from the conference ISKE 2011, held December 15-17 in Shanghai, China. This proceedings doesn’t only examine original research and approaches in the broad areas of intelligent systems and knowledge engineering, but also present new methodologies and practices in intelligent computing paradigms. The book introduces the current scientific and technical advances in the fields of artificial intelligence, machine learning, pattern recognition, data mining, information retrieval, knowledge-based systems, knowledge representation and reasoning, multi-agent systems, natural-language processing, etc. Furthermore, new computing methodologies are presented, including cloud computing, service computing and pervasive computing with traditional intelligent methods. The proceedings will be beneficial for both researchers and practitioners who want to utilize intelligent methods in their specific research fields. Dr. Yinglin Wang is a professor at the Department of Computer Science and Engineering, Shanghai Jiao Tong University, China; Dr. Tianrui Li is a professor at the School of Information Science and Technology, Southwest Jiaotong University, China.
Web-Age Information Management Lei Chen 2010-07-06 Lecture Notes in Computer Science.
Knowledge Science, Engineering and Management Weiru Liu 2018-08-11 This two volume set of LNAI 11061 and LNAI 11062 constitutes the refereed proceedings of the 11th International Conference on Knowledge Science, Engineering and Management, KSEM 2018, held in Changchun, China, in August 2018. The 62 revised full papers and 26 short papers presented were carefully reviewed and selected from 262 submissions. The papers of the first volume are organized in the following topical sections: text mining and document analysis; image and video data analysis; data processing and data mining; recommendation algorithms and systems; probabilistic models and applications; knowledge engineering applications; and knowledge graph and knowledge management. The papers of the second volume are organized in the following topical sections: constraints and satisfiability; formal reasoning and ontologies; deep learning; network knowledge representation and learning; and social knowledge analysis and management.
Freshwater Fisheries Ecology John F. Craig 2016-01-12 Inland fisheries are vital for the livelihoods and food resources of humans worldwide but their importance is underestimated, probably because large numbers of small, local operators are involved. Freshwater Fisheries Ecology defines what we have globally, what we are going to lose and mitigate for, and what, given the right tools, we can save. To estimate potential production, the dynamics of freshwater ecosystems (rivers, lakes and estuaries) need to be understood. These dynamics are diverse, as are the earths freshwater fisheries resources (from boreal to tropical regions), and these influence how fisheries are both utilized and abused. Three main types of fisheries are illustrated within the book: artisanal, commercial and recreational, and the tools which have evolved for fisheries governance and management, including assessment methods, are described. The book also covers in detail fisheries development, providing information on improving fisheries through environmental and habitat evaluation, enhancement and rehabilitation, aquaculture, genetically modified fishes and sustainability. The book thoroughly reviews the negative impacts on fisheries including excessive harvesting, climate change, toxicology, impoundments, barriers and abstractions, non-native species and eutrophication. Finally, key areas of future research are outlined. Freshwater Fisheries Ecology is truly a landmark publication, containing contributions from over 100 leading experts and supported by the Fisheries Society of the British Isles. The global approach makes this book essential reading for fish biologists, fisheries scientists and ecologists and upper level students in these disciplines. Libraries in all universities and research establishments where biological and fisheries sciences are studied and taught should have multiple copies of this hugely valuable resource. About the Editor John Craig is Editor-in-Chief of the Journal of Fish Biology and has an enormous range of expertise and a wealth of knowledge of freshwater fishes and their ecology, having studied them around the globe, including in Asia, North America, Africa, the Middle East and Europe. His particular interests have been in population dynamics and life history strategies. He is a Fellow of the Linnean Society of London and the Royal Society of Biology.
Insight Through Computing Charles F. Van Loan 2010-01-01 An introduction to computer-based problem-solving using the MATLAB® environment for undergraduates.
Management of Data 2010
Tourism and Development in Southeast Asia Claudia Dolezal 2020-03-24 This book analyses the role tourism plays for sustainable development in Southeast Asia. It seeks to assesses tourism’s impact on residents and localities across the region by critically debating and offering new understandings of its dynamics on the global and local levels. Offering a myriad of case studies from a range of different countries in the region, this book is interdisciplinary in nature, thereby presenting a comprehensive overview of tourism’s current and future role in development. Divided into four parts, it discusses the nexus of tourism and development at both the regional and national levels, with a focus on theoretical and methodological foundations, protected areas, local communities, and broader issues of governance. Contributors from within and outside of Southeast Asia raise awareness of the local challenges, including issues of ownership or unequal power relations, and celebrate best-practice examples where tourism can be regarded as making a positive difference to residents’ life. The first edited volume to examine comprehensive analysis of tourism in Southeast Asia as both an economic and social phenomenon through the lens of development, this book will be useful to students and scholars of tourism, development, Southeast Asian culture and society and Asian Studies more generally.
Quantitative Energy Finance Fred Espen Benth 2013-08-28 Finance and energy markets have been an active scientific field for some time, even though the development and applications of sophisticated quantitative methods in these areas are relatively new—and referred to in a broader context as energy finance. Energy finance is often viewed as a branch of mathematical finance, yet this area continues to provide a rich source of issues that are fuelling new and exciting research developments. Based on a special thematic year at the Wolfgang Pauli Institute (WPI) in Vienna, Austria, this edited collection features cutting-edge research from leading scientists in the fields of energy and commodity finance. Topics discussed include modeling and analysis of energy and commodity markets, derivatives hedging and pricing, and optimal investment strategies and modeling of emerging markets, such as power and emissions. The book also confronts the challenges one faces in energy markets from a quantitative point of view, as well as the recent advances in solving these problems using advanced mathematical, statistical and numerical methods. By addressing the emerging area of quantitative energy finance, this volume will serve as a valuable resource for graduate-level students and researchers studying financial mathematics, risk management, or energy finance.
Management Information And Optoelectronic Engineering - Proceedings Of The 2016 International Conference Gao Yongsheng 2017-03-14 This proceedings brings together 59 selected articles presented at the joint conferences of the International Conference on Management, Information and Communication (ICMIC2016) and the International Conference on Optics and Electronics Engineering (ICOEE2016), which were held in Guilin, China, during May 28–29, 2016. ICMIC2016 and ICOEE2016 provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their latest findings and results in the development in Information Management, Communication, Optics and Electronics host by ICMIC2016 and ICOEE2016. The proceedings collected the latest research results and applications in the related areas. We hope to enlighten readers with some latest developments in Information Management, and Optics Electronics presented at the joint conferences.
A Long View of Research and Practice in Operations Research and Management Science ManMohan S. Sodhi 2010-09-09 From the Foreword by Marshall Fisher, The Wharton School, University of Pennsylvania: As generation of academics and practitioners follows generation, it is worthwhile to compile long views of the research and practice in the past to shed light on research and practice going forward. This collection of peer-reviewed articles is intended to provide such a long view. This book contains a collection of chapters written by leading scholars/practitioners who have continued their efforts in developing and/or implementing innovative OR/MS tools for solving real world problems. In this book, the contributors share their perspectives about the past, present and future of OR/MS theoretical development, solution tools, modeling approaches, and applications. Specifically, this book collects chapters that offer insights about the following topics: • Survey articles taking a long view over the past two or more decades to arrive at the present state of the art while outlining ideas for future research. Surveys focus on use of a particular OR/MS approach, e.g., mathematical programming (LP, MILP, etc.) and solution methods for particular family of application, e.g., distribution system design, distribution planning system, health care. • Autobiographical or biographical accounts of how particular inventions (e.g., Structured Modeling) were made. These could include personal experiences in early development of OR/MS and an overview of what has happened since. • Development of OR/MS mathematical tools (e.g., stochastic programming, optimization theory). • Development of OR/MS in a particular industry sector such as global supply chain management. • Modeling systems for OR/MS and their development over time as well as speculation on future development (e.g., LINDO, LINGO, and What’sBest!) • New applications of OR/MS models (e.g., happiness) The target audience of this book is young researchers, graduate/advanced undergraduate students from OR/MS and related fields like computer science, engineering, and management as well as practitioners who want to understand how OR/MS modeling came about over the past few decades and what research topics or modeling approaches they could pursue in research or application.
Emerging Methods in Predictive Analytics: Risk Management and Decision-Making Hsu, William H. 2014-01-31 Decision making tools are essential for the successful outcome of any organization. Recent advances in predictive analytics have aided in identifying particular points of leverage where critical decisions can be made. Emerging Methods in Predictive Analytics: Risk Management and Decision Making provides an interdisciplinary approach to predictive analytics; bringing together the fields of business, statistics, and information technology for effective decision making. Managers, business professionals, and decision makers in diverse fields will find the applications and cases presented in this text essential in providing new avenues for risk assessment, management, and predicting the future outcomes of their decisions.
Handbook of the Fundamentals of Financial Decision Making Leonard C. MacLean 2013 This handbook in two parts covers key topics of the theory of financial decision making. Some of the papers discuss real applications or case studies as well. There are a number of new papers that have never been published before especially in Part II.Part I is concerned with Decision Making Under Uncertainty. This includes subsections on Arbitrage, Utility Theory, Risk Aversion and Static Portfolio Theory, and Stochastic Dominance. Part II is concerned with Dynamic Modeling that is the transition for static decision making to multiperiod decision making. The analysis starts with Risk Measures and then discusses Dynamic Portfolio Theory, Tactical Asset Allocation and Asset-Liability Management Using Utility and Goal Based Consumption-Investment Decision Models.A comprehensive set of problems both computational and review and mind expanding with many unsolved problems are in an accompanying problems book. The handbook plus the book of problems form a very strong set of materials for PhD and Masters courses both as the main or as supplementary text in finance theory, financial decision making and portfolio theory. For researchers, it is a valuable resource being an up to date treatment of topics in the classic books on these topics by Johnathan Ingersoll in 1988, and William Ziemba and Raymond Vickson in 1975 (updated 2 nd edition published in 2006).
Stochastic Analysis and Applications to Finance Tusheng Zhang 2012 This volume is a collection of solicited and refereed articles from distinguished researchers across the field of stochastic analysis and its application to finance. The articles represent new directions and newest developments in this exciting and fast growing area. The covered topics range from Markov processes, backward stochastic differential equations, stochastic partial differential equations, stochastic control, potential theory, functional inequalities, optimal stopping, portfolio selection, to risk measure and risk theory. It will be a very useful book for young researchers who want to learn about the research directions in the area, as well as experienced researchers who want to know about the latest developments in the area of stochastic analysis and mathematical finance. Sample Chapter(s). Editorial Foreword (58 KB). Chapter 1: Non-Linear Evolution Equations Driven by Rough Paths (399 KB). Contents: Non-Linear Evolution Equations Driven by Rough Paths (Thomas Cass, Zhongmin Qian and Jan Tudor); Optimal Stopping Times with Different Information Levels and with Time Uncertainty (Arijit Chakrabarty and Xin Guo); Finite Horizon Optimal Investment and Consumption with CARA Utility and Proportional Transaction Costs (Yingshan Chen, Min Dai and Kun Zhao); MUniform Integrability of Exponential Martingales and Spectral Bounds of Non-Local Feynman-Kac Semigroups (Zhen-Qing Chen); Continuous-Time Mean-Variance Portfolio Selection with Finite Transactions (Xiangyu Cui, Jianjun Gao and Duan Li); Quantifying Model Uncertainties in the Space of Probability Measures (J Duan, T Gao and G He); A PDE Approach to Multivariate Risk Theory (Robert J Elliott, Tak Kuen Siu and Hailiang Yang); Stochastic Analysis on Loop Groups (Shizan Fang); Existence and Stability of Measure Solutions for BSDE with Generators of Quadratic Growth (Alexander Fromm, Peter Imkeller and Jianing Zhang); Convex Capital Requirements for Large Portfolios (Hans FAllmer and Thomas Knispel); The Mixed Equilibrium of Insider Trading in the Market with Rational Expected Price (Fuzhou Gong and Hong Liu); Some Results on Backward Stochastic Differential Equations Driven by Fractional Brownian Motions (Yaozhong Hu, Daniel Ocone and Jian Song); Potential Theory of Subordinate Brownian Motions Revisited (Panki Kim, Renming Song and Zoran Vondraiek); Research on Social Causes of the Financial Crisis (Steven Kou); Wick Formulas and Inequalities for the Quaternion Gaussian and -Permanental Variables (Wenbo V Li and Ang Wei); Further Study on Web Markov Skeleton Processes (Yuting Liu, Zhi-Ming Ma and Chuan Zhou); MLE of Parameters in the Drifted Brownian Motion and Its Error (Lemee Nakamura and Weian Zheng); Optimal Partial Information Control of SPDEs with Delay and Time-Advanced Backward SPDEs (Bernt yksendal, Agn s Sulem and Tusheng Zhang); Simulation of Diversified Portfolios in Continuous Financial Markets (Eckhard Platen and Renata Rendek); Coupling and Applications (Feng-Yu Wang); SDEs and a Generalised Burgers Equation (Jiang-Lun Wu and Wei Yang); Mean-Variance Hedging in the Discontinuous Case (Jianming Xia). Readership: Graduates and researchers in stochatic analysis and mathematical finance.
Financial Risk Management Jimmy Skoglund 2015-09-04 A global banking risk management guide geared toward the practitioner Financial Risk Management presents an in-depth look at banking risk on a global scale, including comprehensive examination of the U.S. Comprehensive Capital Analysis and Review, and the European Banking Authority stress tests. Written by the leaders of global banking risk products and management at SAS, this book provides the most up-to-date information and expert insight into real risk management. The discussion begins with an overview of methods for computing and managing a variety of risk, then moves into a review of the economic foundation of modern risk management and the growing importance of model risk management. Market risk, portfolio credit risk, counterparty credit risk, liquidity risk, profitability analysis, stress testing, and others are dissected and examined, arming you with the strategies you need to construct a robust risk management system. The book takes readers through a journey from basic market risk analysis to major recent advances in all financial risk disciplines seen in the banking industry. The quantitative methodologies are developed with ample business case discussions and examples illustrating how they are used in practice. Chapters devoted to firmwide risk and stress testing cross reference the different methodologies developed for the specific risk areas and explain how they work together at firmwide level. Since risk regulations have driven a lot of the recent practices, the book also relates to the current global regulations in the financial risk areas. Risk management is one of the fastest growing segments of the banking industry, fueled by banks' fundamental intermediary role in the global economy and the industry's profit-driven increase in risk-seeking behavior. This book is the product of the authors' experience in developing and implementing risk analytics in banks around the globe, giving you a comprehensive, quantitative-oriented risk management guide specifically for the practitioner. Compute and manage market, credit, asset, and liability risk Perform macroeconomic stress testing and act on the results Get up to date on regulatory practices and model risk management Examine the structure and construction of financial risk systems Delve into funds transfer pricing, profitability analysis, and more Quantitative capability is increasing with lightning speed, both methodologically and technologically. Risk professionals must keep pace with the changes, and exploit every tool at their disposal. Financial Risk Management is the practitioner's guide to anticipating, mitigating, and preventing risk in the modern banking industry.
Optimization and Its Applications in Control and Data Sciences Boris Goldengorin 2016-09-29 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.
An Essay on the Principle of Population T. R. Malthus 2012-03-13 The first major study of population size and its tremendous importance to the character and quality of society, this classic examines the tendency of human numbers to outstrip their resources.
Managing oil palm landscapes Lesley Potter 2015-05-26 This study comprises a review of oil palm development and management across landscapes in the tropics. Seven countries have been selected for detailed analysis using surveys of the current literature, mainly spanning the last fifteen years. Indonesia and Malaysia are the obvious leaders in terms of area planted and levels of production and export, but also in literature generated on social and environmental challenges. In Latin America, Colombia is the dominant producer with oil palm expanding in disparate landscapes with a strong focus on palm oil-based biodiesel; and small-scale growers and companies in Peru and Brazil offer contrasting ways of inserting oil palm into the Amazon. Nigeria and Cameroon represent African nations with traditional groves and old plantations in which foreign □land grabs□ to establish new oil palm have recently occurred.
Models and Methods in Economics and Management Science Fouad El Ouardighi 2013-09-16 With this book, distinguished and notable contributors wish to honor Professor Charles S. Tapiero’s scientific achievements. Although it covers only a few of the directions Professor Tapiero has taken in his work, it presents important modern developments in theory and in diverse applications, as studied by his colleagues and followers, further advancing the topics Tapiero has been investigating. The book is divided into three parts featuring original contributions covering the following areas: general modeling and analysis; applications to marketing, economy and finance; and applications to operations and manufacturing. Professor Tapiero is among the most active researchers in control theory; in the late sixties, he started to enthusiastically promote optimal control theory along with differential games, successfully applying it to diverse problems ranging from classical operations research models to finance, risk and insurance, marketing, transportation and operations management, conflict management and game theory, engineering, regional and urban sciences, environmental economics, and organizational behavior. Over the years, Professor Tapiero has produced over 300 papers and communications and 14 books, which have had a major impact on modern theoretical and applied research. Notable among his numerous pioneering scientific contributions are the use of graph theory in the behavioral sciences, the modeling of advertising as a random walk, the resolution of stochastic zero-sum differential games, the modeling of quality control as a stochastic competitive game, and the development of impulsive control methods in management. Charles Tapiero’s creativity applies both in formulating original issues, modeling complex phenomena and solving complex mathematical problems.
Adaptive Resource Management and Scheduling for Cloud Computing Florin Pop 2014-11-25 This book constitutes the thoroughly refereed post-conference proceedings of the First International Workshop on Adaptive Resource Management and Scheduling for Cloud Computing, ARMS-CC 2014, held in Conjunction with ACM Symposium on Principles of Distributed Computing, PODC 2014, in Paris, France, in July 2014. The 14 revised full papers (including 2 invited talks) were carefully reviewed and selected from 29 submissions and cover topics such as scheduling methods and algorithms, services and applications, fundamental models for resource management in the cloud.
Tourism Microentrepreneurship Duarte B. Morais 2021-09-27 Tourism Microentrepreneurship shares scholarship and best practices to educate practitioners and to encourage more research on the development of microentrepreneurship and its impact on destination communities.
Risk-Sensitive Investment Management Mark H A Davis 2014-07-21 Over the last two decades, risk-sensitive control has evolved into an innovative and successful framework for solving dynamically a wide range of practical investment management problems. This book shows how to use risk-sensitive investment management to manage portfolios against an investment benchmark, with constraints, and with assets and liabilities. It also addresses model implementation issues in parameter estimation and numerical methods. Most importantly, it shows how to integrate jump-diffusion processes which are crucial to model market crashes. With its emphasis on the interconnection between mathematical techniques and real-world problems, this book will be of interest to both academic researchers and money managers. Risk-sensitive investment management links stochastic control and portfolio management. Because of its distinct emphasis on integrating advanced theoretical concepts into practical dynamic investment management tools, this book stands out from the existing literature in fundamental ways. It goes beyond mainstream research in portfolio management in a traditional static setting. The theoretical developments build on contemporary research in stochastic control theory, but are informed throughout by the need to construct an effective and practical framework for dynamic portfolio management. This book fills a gap in the literature by connecting mathematical techniques with the real world of investment management. Readers seeking to solve key problems such as benchmarked asset management or asset and liability management will certainly find it useful. Contents:Diffusion Models:The Merton ProblemRisk-Sensitive Asset ManagementManaging Against a BenchmarkAsset and Liability ManagementInvestment ConstraintsInfinite Horizon ProblemsJump-Diffusion Models:Jumps in Asset PricesGeneral Jump-Diffusion SettingFund Separation and Fractional Kelly StrategiesManaging Against a Benchmark: Jump-Diffusion CaseAsset and Liability Management: Jump-Diffusion CaseImplementation:Factor and Securities ModelsCase StudiesNumerical MethodsFactor Estimation: Filtering and Black-Litterman Readership: Professionals, researchers, academics and graduate students in the field of investment management, stochastic optimization, stochastic analysis and probability, and quantitative finance. Key Features:Integrates advanced theoretical concepts into practical dynamic investmentDiscusses practical issues that will be relevant to practitioners, including parameter estimation, investment benchmarks, asset and liabilities management (ALM), investment constraints, and the Kelly criterionPresents a thorough treatment of jump diffusion models, including latest developments regarding classical solutions to jump diffusion control problemsWritten by professors with extensive experience on risk sensitive asset management and the relevant financial industry experienceKeywords:Stochastic Control;Risk Sensitive Control;Dynamic Investment Management;Benchmarked Asset Management;Asset and Liability Management;Jump Diffusion Processes;LÃ©vy Processes;Hamiltonâ□□Jacobiâ□□Bellman Equations;Classical Solutions;Viscosity Solutions;Kelly Criterion
Machine Learning for Asset Management Emmanuel Jurczenko 2020-10-06 This new edited volume consists of a collection of original articles written by leading financial economists and industry experts in the area of machine learning for asset management. The chapters introduce the reader to some of the latest research developments in the area of equity, multi-asset and factor investing. Each chapter deals with new methods for return and risk forecasting, stock selection, portfolio construction, performance attribution and transaction costs modeling. This volume will be of great help to portfolio managers, asset owners and consultants, as well as academics and students who want to improve their knowledge of machine learning in asset management.
Principles and Applications of Distributed Event-Based Systems Hinze, Annika M. 2010-06-30 Principles and Applications of Distributed Event-Based Systems showcases event-based systems in real-world applications. Containing expert international contributions, this advanced publication provides professionals, researchers, and students in systems design with a rich compendium of latest applications in the field.
Handbook on Securing Cyber-Physical Critical Infrastructure Sajal K Das 2012-01-25 The worldwide reach of the Internet allows malicious cyber criminals to coordinate and launch attacks on both cyber and cyber-physical infrastructure from anywhere in the world. This purpose of this handbook is to introduce the theoretical foundations and practical solution techniques for securing critical cyber and physical infrastructures as well as their underlying computing and communication architectures and systems. Examples of such infrastructures include utility networks (e.g., electrical power grids), ground transportation systems (automotives, roads, bridges and tunnels), airports and air traffic control systems, wired and wireless communication and sensor networks, systems for storing and distributing water and food supplies, medical and healthcare delivery systems, as well as financial, banking and commercial transaction assets. The handbook focus mostly on the scientific foundations and engineering techniques – while also addressing the proper integration of policies and access control mechanisms, for example, how human-developed policies can be properly enforced by an automated system. Addresses the technical challenges facing design of secure infrastructures by providing examples of problems and solutions from a wide variety of internal and external attack scenarios Includes contributions from leading researchers and practitioners in relevant application areas such as smart power grid, intelligent transportation systems, healthcare industry and so on Loaded with examples of real world problems and pathways to solutions utilizing specific tools and techniques described in detail throughout
Linear and Nonlinear Programming David G. Luenberger 2021-12-02 The 5th edition of this classic textbook covers the central concepts of practical optimization techniques, with an emphasis on methods that are both state-of-the-art and

popular. One major insight is the connection between the purely analytical character of an optimization problem and the behavior of algorithms used to solve that problem. End-of-chapter exercises are provided for all chapters. The material is organized into three separate parts. Part I offers a self-contained introduction to linear programming. The presentation in this part is fairly conventional, covering the main elements of the underlying theory of linear programming, many of the most effective numerical algorithms, and many of its important special applications. Part II, which is independent of Part I, covers the theory of unconstrained optimization, including both derivations of the appropriate optimality conditions and an introduction to basic algorithms. This part of the book explores the general properties of algorithms and defines various notions of convergence. In turn, Part III extends the concepts developed in the second part to constrained optimization problems. Except for a few isolated sections, this part is also independent of Part I. As such, Parts II and III can easily be used without reading Part I and, in fact, the book has been used in this way at many universities. New to this edition are popular topics in data science and machine learning, such as the Markov Decision Process, Farkas' lemma, convergence speed analysis, duality theories and applications, various first-order methods, stochastic gradient method, mirror-descent method, Frank-Wolf method, ALM/ADMM method, interior trust-region method for non-convex optimization, distributionally robust optimization, online linear programming, semidefinite programming for sensor-network localization, and infeasibility detection for nonlinear optimization.

The New Enclosures: Critical Perspectives on Corporate Land Deals Ben White 2013-09-13 This collection explores the complex dynamics of corporate land deals from a broad agrarian political economy perspective, with a special focus on the implications for property and labour regimes, labour processes and structures of accumulation. This involves looking at ways in which existing patterns of rural social differentiation – in terms of class, gender, ethnicity and generation – are being shaped by changes in land use and property relations, as well as by the re-organization of production and exchange as rural communities and resources are incorporated into global commodity chains. It goes further than the descriptive 'what' and 'who' questions, in order to understand the 'how' and 'why' of these patterns. It is empirically solid and theoretically sophisticated, making it a robust and boundary-changing work. Contributors come from various scholarly disciplines. Covering nearly all regions of the world, the collection will be of interest to researchers from various disciplines, policymakers and activists. This book was originally published as a Special Issue of the Journal of Peasant Studies.

Effective Big Data Management and Opportunities for Implementation Singh, Manoj Kumar 2016-06-20 "Big data" has become a commonly used term to describe large-scale and complex data sets which are difficult to manage and analyze using standard data management methodologies. With applications across sectors and fields of study, the implementation and possible uses of big data are limitless. Effective Big Data Management and Opportunities for Implementation explores emerging research on the ever-growing field of big data and facilitates further knowledge development on methods for handling and interpreting large data sets. Providing multi-disciplinary perspectives fueled by international research, this publication is designed for use by data analysts, IT professionals, researchers, and graduate-level students interested in learning about the latest trends and concepts in big data.

Global Innovation and Entrepreneurship Stephen E. Little 2017-01-09 Addressing the wide-ranging challenges of global entrepreneurship and innovation faced by both East and West, this edited volume provides a multi-faceted overview of the complexity facing entrepreneurial firms within global value chains. Viewed from the context of an emerging multi-polar world in which Europe and Asia are seen as major actors, the book explores their relations which are becoming increasingly crucial for the understanding of global politics, trade, technology, culture and travel. Global Innovation and Entrepreneurship includes case studies and discussions from a range of sectors and takes a unique cross-disciplinary perspective from European as well as East and South Asian authors.

Why Leaders Fail Ethically Cameron A. Batmanghlich 2014-11-25 Contrary to popular conceptions that ethical failures in leadership are correlated with economic downturns and other stressful market conditions, this book argues that such transgressions are an intrinsic element of leadership, as it is defined under the current prevailing paradigm. In recent years the crisis of failures in ethical leadership across organizations, particularly corporations, has been highlighted more than ever, both in academic discourse and the public sphere. Psychological maladies leading to higher number of sick leaves, general feelings of disillusionment among employees, loss of motivation and employee loyalty, even suicide (both in Western corporations and in other parts of the world) are just a few examples of how ethical failures in leadership are expressed. In order to gain original insight into the phenomenon of ethical leadership, the author explores the origins and effects of the current leadership paradigm along two dimensions: (1) a revisit of the leadership construct from a historical and philosophical perspective, with a focus on the relationship between theory and practice; and (2) the theoretical roots of the ethical component of leadership theories, identifying the reasoning behind the value system in our paradigm. Subsequently, by linking these constructs together, a meta-theory emerges suggesting that the three main ethical departure points of virtue ethics, teleology and deontology (all of which have emerged during the past three thousand years through a confluence of the Abrahamic religions' and Greek value-systems) are the basis for our reasoning about leadership, its construct and the practice of leadership itself. Challenging traditional views of ethical leadership, the author goes beyond theory and philosophy to consider practical implications, including alternative ways to improve executive recruitment, training, and involvement of followers in decision-making; experiments like rotating leadership; and a peek into other paradigms, such as the Zoroastrianism, hence making an original contribution to the field of leadership both for scholars and practitioners.

Principles, Methodologies, and Service-Oriented Approaches for Cloud Computing Yang, Xiaoyu 2013-01-31 Innovations in cloud and service-oriented architectures continue to attract attention by offering interesting opportunities for research in scientific communities. Although advancements such as computational power, storage, networking, and infrastructure have aided in making major progress in the implementation and realization of cloud-based systems, there are still significant concerns that need to be taken into account. Principles, Methodologies, and Service-Oriented Approaches for Cloud Computing aims to present insight into Cloud principles, examine associated methods and technologies, and investigate the use of service-oriented computing technologies. In addressing supporting infrastructure of the Cloud, including associated challenges and pressing issues, this reference source aims to present researchers, engineers, and IT professionals with various approaches in Cloud computing.

L1 Adaptive Control Theory Naira Hovakimyan 2010-09-30 Contains results not yet published in technical journals and conference proceedings.

Recent Advances in Financial Engineering 2012 Akihiko Takahashi 2014-02-24 Recent Advances in Financial Engineering 2012 is the Proceedings of the International Workshop on Finance 2012, which was held at the University of Tokyo on October 30 and 31, 2012. This workshop was organized by the Center for Advanced Research in Finance (CARF), Graduate School of Economics, the University of Tokyo, and Graduate School of Social Sciences, Tokyo Metropolitan University (TMU). This annual workshop, which was first held in 2011, is a successor to the Daiwa International Workshop (2004 to 2008) and the KIER–TMU International Workshop (2009 to 2010). The workshop was designed for the exchange of new ideas in financial engineering and to serves as a bridge between academic researchers and practitioners. To these ends, the speakers shared various interesting ideas, information on new methods, and their up-to-date research results. In the 2012 workshop, we invited nine leading scholars, including three keynote speakers, from various countries, and the two-day workshop resulted in many fruitful discussions. The book consists of eight papers, all refereed, that were related to the presentations at the International Workshop on Finance 2012. In these papers, the latest concepts, methods, and techniques related to current topics in financial engineering are proposed and reviewed. Contents:Forward Prices in Markets Driven by Continuous-Time Autoregressive Processes (F E Benth & S A S Blanco)A Bottom-Up Dynamic Model of Portfolio Credit Risk. Part I: Markov Copula Perspective (T R Bielecki, A Cousin, S Crépey, A Herbertsson)A Bottom-Up Dynamic Model of Portfolio Credit Risk. Part II: Common-Shock Interpretation, Calibration and Hedging Issues (T R Bielecki, A Cousin, S Crépey, A Herbertsson)On the Limit Behavior of Option Hedging Sets Under Transaction Costs (J Grépat)Optimal Execution for Uncertain Market Impact: Derivation and Characterization of a Continuous-Time Value Function (K Ishitani and T Kato)Optimal Investment Timing and Volume Decisions Under Debt Borrowing Constraints (T Shibata and M Nishihara)Fractional Brownian Motions in Financial Models and Their Monte Carlo Simulation (C M Tam)Mean-Variance Pre-Commitment Policies Revisited Via a Mean-Field Technique (A Bensoussan, K C Wong, S C P Yam) Readership: Graduate and postgraduate students of financial engineering and mathematical finance; academics and practitioners; quantitative researchers on financial markets. Keywords:Financial Engineering;Mathematical Finance;Money & Banking;Risk Management;Real Option;Corporate Finance;Computational Finance

Advances in Islamic Finance, Marketing, and Management Dilip Mutum 2016-12-22 Of interest to both academics and practitioners who assist in making Shariah-centric strategies, this work is particularly important as Asia holds a major percentage of Islamic assets in South Asia, Southeast Asia, and the Middle East, with new opportunities opening in Central Asia.

Computing Handbook, Third Edition Teofilo Gonzalez 2014-05-07 Computing Handbook, Third Edition: Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery (ACM) and the IEEE Computer Society (IEEE-CS). Written by established leading experts and influential young researchers, the first volume of this popular handbook examines the elements involved in designing and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

Sustainable Solutions for Food Security Atanu Sarkar 2019-01-18 This volume is the first centralized source of technological and policy solutions for sustainable agriculture and food systems resilience in the face of climate change. The editors have compiled a comprehensive collection of the latest tested, replicable green technologies and approaches for food security, including smart crops and new agricultural paradigms, sustainable natural resources management, and strategies for risk assessment and governance. Studies from resource-constrained countries with vulnerable populations are emphasized, with contributions on multisector partnership from development professionals. Debates concerning access to climate-smart technologies, intellectual property rights, and international negotiations on technology transfer are also included. The editors are, respectively, a public health physician, a development professional and an environmental scientist. They bring their varied perspectives together to curate a holistic volume that will be useful for policy makers, scientists, community-based organizations, international organizations and researchers across the world.

Algorithmic Differentiation in Finance Explained Marc Henrard 2017-09-04 This book provides the first practical guide to the function and implementation of algorithmic differentiation in finance. Written in a highly accessible way, Algorithmic Differentiation Explained will take readers through all the major applications of AD in the derivatives setting with a focus on implementation. Algorithmic Differentiation (AD) has been popular in engineering and computer science, in areas such as fluid dynamics and data assimilation for many years. Over the last decade, it has been increasingly (and successfully) applied to financial risk management, where it provides an efficient way to obtain financial instrument price derivatives with respect to the data inputs. Calculating derivatives exposure across a portfolio is no simple task. It requires many complex calculations and a large amount of computer power, which in prohibitively expensive and can be time consuming. Algorithmic differentiation techniques can be very successfully in computing Greeks and sensitivities of a portfolio with machine precision. Written by a leading practitioner who works and programmes AD, it offers a practical analysis of all the major applications of AD in the derivatives setting and guides the reader towards implementation. Open source code of the examples is provided with the book, with which readers can experiment and perform their own test scenarios without writing the related code themselves.

Routledge Handbook of Diplomacy and Statecraft B.J.C. McKercher 2012-03-12 Despite post-Cold War arguments about their demise, 'Great Powers' not only continue to thrive, with lesser Powers they form the basis of the constellation of global politics. This topical new Handbook illustrates how and why the new international order has evolved – and is still evolving – since the end of the Cold War, through the application of diplomacy and statecraft. Including cutting edge contributions from over 40 scholars, the handbook is structured around seven sections: Context of Diplomacy Great Powers Middle Powers Developing Powers International Organisations and Military Alliances International Economy Issues of Conflict and Co-operation Through analysis of a wide range of case studies, the Handbook assesses the diplomacy and statecraft of individual powers, offering insights into how they function, their individual perception of national interests and the roles they play in modern statecraft. The contributors also seek to evaluate the organizations and contemporary issues that continue to influence the shaping of the new international order. A comprehensive survey of diplomacy across the world, this work will be essential reading for scholars and professionals alike.

Handbook of Quantitative Finance and Risk Management Cheng-Few Lee 2010-06-14 Quantitative finance is a combination of economics, accounting, statistics, econometrics, mathematics, stochastic process, and computer science and technology. Increasingly, the tools of financial analysis are being applied to assess, monitor, and mitigate risk, especially in the context of globalization, market volatility, and economic crisis. This two-volume handbook, comprised of over 100 chapters, is the most comprehensive resource in the field to date, integrating the most current theory, methodology, policy, and practical applications. Showcasing contributions from an international array of experts, the Handbook of Quantitative Finance and Risk Management is unparalleled in the breadth and depth of its coverage. Volume 1 presents an overview of quantitative finance and risk management research, covering the essential theories, policies, and empirical methodologies used in the field. Chapters provide in-depth discussion of portfolio theory and investment analysis. Volume 2 covers options and option pricing theory and risk management. Volume 3 presents a wide variety of models and analytical tools. Throughout, the handbook offers illustrative case examples, worked equations, and extensive references; additional features include chapter abstracts, keywords, and author and subject indices. From "arbitrage" to "yield spreads," the Handbook of Quantitative Finance and Risk Management will serve as an essential resource for academics, educators, students, policymakers, and practitioners.