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KEY=THE - MAREN HERNANDEZ

DATA, MODELS, AND DECISIONS

THE FUNDAMENTALS OF MANAGEMENT SCIENCE

Ingram Combines topics from two traditionally distinct quantitative subjects, probability/statistics and management science/optimization, in a unified treatment of quantitative methods and models for management. Stresses those fundamental concepts that are most important for the practical analysis of management decisions: modeling and evaluating uncertainty explicitly, understanding the dynamic nature of decision-making, using historical data and limited information effectively, simulating complex systems, and allocating scarce resources optimally.

ADVANCING THE FUNDAMENTAL SCIENCES

PROCEEDINGS OF THE FOREST SERVICE NATIONAL EARTH SCIENCES CONFERENCE, SAN DIEGO, CA, 18-22 OCTOBER 2004

MAP INDEX

MANAGEMENT FRAMEWORK TO REFRAME BEST PRACTICES

Notion Press MAP index is a uniquely designed management framework for systematically managing best practices in business organizations. Much like a physical map, the MAP index shows the direction and guides the organizations in creating a high performance work environment. The fundamental properties of a map are mapped to the model of the MAP index. It indicates the current state of practices and stage of the organization's performance, what it needs to do to go the full distance and what is the best possible way to reach the desired destination. As a map is the most valuable tool in the hands of an explorer so is the MAP index, which can become the most valuable tool in the hands of the managers. It can help managers solve problems faster, make better decisions and make their organization the best-in-class business organization. Learn more about MAP index @ www.mapindex.org

APPLIED RISK ANALYSIS FOR GUIDING HOMELAND SECURITY POLICY AND DECISIONS

John Wiley & Sons Presents various challenges faced by security policy makers and risk analysts, and mathematical approaches that inform homeland security policy development and decision support Compiled by a group of highly qualified editors, this book provides a clear connection between risk science and homeland security policy making and includes top-notch contributions that uniquely highlight the role of risk analysis for informing homeland security policy decisions. Featuring discussions on various challenges faced in homeland security risk analysis, the book seamlessly divides the subject of risk analysis for homeland security into manageable chapters, which are organized by the concept of risk-

informed decisions, methodology for applying risk analysis, and relevant examples and case studies. **Applied Risk Analysis for Guiding Homeland Security Policy and Decisions** offers an enlightening overview of risk analysis methods for homeland security. For instance, it presents readers with an exploration of radiological and nuclear risk assessment, along with analysis of uncertainties in radiological and nuclear pathways. It covers the advances in risk analysis for border security, as well as for cyber security. Other topics covered include: strengthening points of entry; systems modeling for rapid containment and casualty mitigation; and disaster preparedness and critical infrastructure resilience. Highlights how risk analysis helps in the decision-making process for homeland security policy Presents specific examples that detail how various risk analysis methods provide decision support for homeland security policy makers and risk analysts Describes numerous case studies from academic, government, and industrial perspectives that apply risk analysis methods for addressing challenges within the U.S. Department of Homeland Security (DHS) Offers detailed information regarding each of the five DHS missions: prevent terrorism and enhance security; secure and manage our borders; enforce and administer our immigration laws; safeguard and secure cyberspace; and strengthen national preparedness and resilience Discusses the various approaches and challenges faced in homeland risk analysis and identifies improvements and methodological advances that influenced DHS to adopt an increasingly risk-informed basis for decision-making Written by top educators and professionals who clearly illustrate the link between risk science and homeland security policy making **Applied Risk Analysis for Guiding Homeland Security Policy and Decisions** is an excellent textbook and/or supplement for upper-undergraduate and graduate-level courses related to homeland security risk analysis. It will also be an extremely beneficial resource and reference for homeland security policy analysts, risk analysts, and policymakers from private and public sectors, as well as researchers, academics, and practitioners who utilize security risk analysis methods.

FUNDAMENTALS OF THE FUZZY LOGIC-BASED GENERALIZED THEORY OF DECISIONS

Springer Every day decision making and decision making in complex human-centric systems are characterized by imperfect decision-relevant information. Main drawback of the existing decision theories is namely incapability to deal with imperfect information and modeling vague preferences. Actually, a paradigm of non-numerical probabilities in decision making has a long history and arose also in Keynes's analysis of uncertainty. There is a need for further generalization - a move to decision theories with perception-based imperfect information described in NL. The languages of new decision models for human-centric systems should be not languages based on binary logic but human-centric computational schemes able to operate on NL-described information. Development of new theories is now possible due to an increased computational power of information processing systems which allows for computations with imperfect information, particularly, imprecise and partially true information, which are much more complex than computations over numbers and probabilities. The monograph exposes the foundations of a new decision theory with imperfect decision-relevant information on environment and a decision maker's behavior. This theory is based on the synthesis of the fuzzy sets theory with perception-based information and the probability theory. The book is self containing and represents in a systematic way the decision theory with imperfect information into the educational systems. The book will be helpful for teachers and students of universities and colleges, for managers and specialists from various fields of business and economics, production and social sphere.

DISCOVERING THE DECISIONS WITHIN YOUR BUSINESS PROCESSES USING IBM BLUEWORKS LIVE

IBM Redbooks In today's competitive, always-on global marketplace, businesses need to be able to make better decisions more quickly. And they need to be able to change those decisions immediately in order to adapt to this increasingly dynamic business environment. Whether it is a regulatory change in your industry, a new product introduction by a competitor that your organization needs to react to, or a new market opportunity that you want to quickly capture by changing your product pricing. Decisions like these lie at the heart of your organization's key business processes. In this IBM® Redpaper™ publication, we explore the benefits of identifying and documenting decisions within the context of your business processes. We describe a straightforward approach for doing this by using a business process and decision discovery tool called IBM Blueworks Live™, and we apply these techniques to a fictitious example from the auto insurance industry to help you better understand the concepts. This paper was written with a non-technical audience in mind. It is intended to help business users, subject matter experts, business analysts, and business managers get started discovering and documenting the decisions that are key to their company's business operations.

HIERARCHICAL DECISION MODELING

ESSAYS IN HONOR OF DUNDAR F. KOCAOGLU

Springer This volume, developed in honor of Dr. Dundar F. Kocaoglu, aims to demonstrate the applications of the Hierarchical Decision Model (HDM) in different sectors and its capacity in decision analysis. It is comprised of essays from noted scholars, academics and researchers of engineering and technology management around the world. This book is

organized into five parts: Technology Policy Planning, Strategic Technology Planning, Technology Assessment, Application Extensions, and Methodology Extensions. Dr. Dundar F. Kocaoglu is one of the pioneers of multiple decision models using hierarchies, and creator of the HDM in decision analysis. HDM is a mission-oriented method for evaluation and/or selection among alternatives. A wide range of alternatives can be considered, including but not limited to, different technologies, projects, markets, jobs, products, cities to live in, houses to buy, apartments to rent, and schools to attend. Dr. Kocaoglu's approach has been adopted for decision problems in many industrial sectors, including electronics research and development, education, government planning, agriculture, energy, technology transfer, semiconductor manufacturing, and has influenced policy locally, nationally, and internationally. Moreover, his students developed advanced tools and software applications to further improve and enhance the robustness of the HDM approach. Dr. Kocaoglu has made many contributions to the field of Engineering and Technology Management. During his tenure at Portland State University, he founded the Engineering and Technology Management program, where he served as Program Director and later, Department Chair. He also started the Portland International Conference on Management of Engineering and Technology (PICMET), which organizes an annual conference in international locations such as Korea, Turkey, South Africa, Thailand, and Japan. His teaching has won awards and resulted in a strong sense of student loyalty among his students even decades later. Through his academic work and research, Dr. Kocaoglu has strongly supported researchers of engineering management and has provided tremendous service to the field. This volume recognizes and celebrates Dr. Kocaoglu's profound contributions to the field, and will serve as a resource for generations of researchers, practitioners and students.

FUNDAMENTALS OF ERROR THEORY

APPLICATIONS IN DECISION MAKING

Springer This book provides a tool for generic readers and graduates who are interested or majoring in systems engineering, decision science, management science, and project management to sharpen their system thinking skills, equipping them with a multiangle perspective, and offering them broader view to understand the complex socioeconomic system in which we are embedded. It systematically investigates the root causes and mechanisms that generate errors through the use of fuzzy set theory, systems science, logic and set theory, and decision science - an area that has rarely been explored in literature. The topics covered include classic error set, fuzzy error set, multivariate error set, error function, identification of errors, error systems, error logic, error matrix, and practical application of error theory in a sewage project.

STRUCTURED DECISION MAKING

CASE STUDIES IN NATURAL RESOURCE MANAGEMENT

Johns Hopkins University Press Smith, Jennifer A. Szymanski, Terry Walshe, Nicolas Zuël

DECISION MODELLING FOR HEALTH ECONOMIC EVALUATION

Oxford University Press, USA This is a practical guide to the use of modelling techniques, starting with the basics of constructing different forms of model, the population of the model with input parameter estimates, analysis of the results, and progression to the holistic view of models as a tool to inform future research exercises. Key techniques and approaches are discussed, and a comprehensive set of example exercises take the reader through how to conduct decision-analytic modelling. These exercises are supported with templates and solutions made available via the book website. -- BOOK JACKET.

DECISION MAKING UNDER DEEP UNCERTAINTY

FROM THEORY TO PRACTICE

Springer This open access book focuses on both the theory and practice associated with the tools and approaches for decisionmaking in the face of deep uncertainty. It explores approaches and tools supporting the design of strategic plans under deep uncertainty, and their testing in the real world, including barriers and enablers for their use in practice. The book broadens traditional approaches and tools to include the analysis of actors and networks related to the problem at hand. It also shows how lessons learned in the application process can be used to improve the approaches and tools used in the design process. The book offers guidance in identifying and applying appropriate approaches and tools to design plans, as well as advice on implementing these plans in the real world. For decisionmakers and practitioners, the book includes realistic examples and practical

guidelines that should help them understand what decisionmaking under deep uncertainty is and how it may be of assistance to them. **Decision Making under Deep Uncertainty: From Theory to Practice** is divided into four parts. Part I presents five approaches for designing strategic plans under deep uncertainty: Robust Decision Making, Dynamic Adaptive Planning, Dynamic Adaptive Policy Pathways, Info-Gap Decision Theory, and Engineering Options Analysis. Each approach is worked out in terms of its theoretical foundations, methodological steps to follow when using the approach, latest methodological insights, and challenges for improvement. In Part II, applications of each of these approaches are presented. Based on recent case studies, the practical implications of applying each approach are discussed in depth. Part III focuses on using the approaches and tools in real-world contexts, based on insights from real-world cases. Part IV contains conclusions and a synthesis of the lessons that can be drawn for designing, applying, and implementing strategic plans under deep uncertainty, as well as recommendations for future work. The publication of this book has been funded by the Radboud University, the RAND Corporation, Delft University of Technology, and Deltares.

A WEST AFRICAN MODEL TO ADDRESS HUMAN TRAFFICKING

Springer Nature This book describes the nature of trafficking in persons in West Africa, focusing on labor and sexual exploitation in the region, and recommends tailor-made solutions established by the Catholic Church in light of governmental authorities failure to effectively combat this scourge of humanity. While states efforts to fulfill their international obligations in developing anti-trafficking legislations are recognized, their failure to carry out prosecutions of offenders and ensure protection of the victims reveals that law alone is not a sufficient instrument for realizing human rights and improving peoples lives. Faced with the sobering background of less than successful efforts by governmental entities to end the trade in humans, this research study recommends adopting essential elements of Catholic social teaching, which rests on the inherent dignity of human beings allowing the development of political, socio-cultural, and religious reforms that will increase the effectiveness of existing legislation designed to combat trafficking. This faith-based approach highlights the role that religion may play in fulfilling the discretionary provisions of the Palermo Protocol by promoting the welfare and protecting the life and dignity of the victims. Additionally, religion is composed of sound moral ethics that determine people's behavior to refrain from the sinful conduct of trafficking. It also creates a sense of ethical responsibility that promotes supply chain transparency and ethical purchasing as well as advocating social reforms and anti-trafficking legislations initiatives. In fact, the author's approach, may be a model for other regions in the world and will be of interest to scholars, law and policy makers, human rights advocates and law enforcement agents working in the field of trafficking in persons. .

CYBERSECURITY INVESTMENTS

DECISION SUPPORT UNDER ECONOMIC ASPECTS

Springer This book offers readers essential orientation on cybersecurity safeguards, and first and foremost helps them find the right balance between financial expenditures and risk mitigation. This is achieved by pursuing a multi-disciplinary approach that combines well-founded methods from economics and the computer sciences. Established decision making techniques are embedded into a walk-through for the complete lifecycle of cybersecurity investments. Insights into the economic aspect of the costs and benefits of cybersecurity are supplemented by established and innovative economic indicators. Readers will find practical tools and techniques to support reasonable decision making in cybersecurity investments. Further, they will be equipped to encourage a common understanding using economic aspects, and to provide cost transparency for the senior management.

MULTIPLE CRITERIA DECISION MAKING AND AIDING

CASES ON MODELS AND METHODS WITH COMPUTER IMPLEMENTATIONS

Springer This book introduces students on Multiple Criteria Decision Aiding and Making courses to practical, real-world cases. Each case study introduces a problem or situation together with a method, and a description and explanation of a computer application. In this sense each chapter is based on four pillars: the problem, the model building, the methods and their implementation. The book presents and elaborates a rich and comprehensive set of practical problems comprising multiple criteria, including numerous approaches for their solution, for decision support or decision aid. It complements traditional textbooks and lecture material by employing case studies to promote a deeper understanding of the investigated concepts and help students apply these methods to other areas.

DECISION MAKING IN NATURAL RESOURCE MANAGEMENT

A STRUCTURED, ADAPTIVE APPROACH

John Wiley & Sons This book is intended for use by natural resource managers and scientists, and students in the fields of natural resource management, ecology, and conservation biology, who are confronted with complex and difficult decision making problems. The book takes readers through the process of developing a structured approach to decision making, by firstly deconstructing decisions into component parts, which are each fully analyzed and then reassembled to form a working decision model. The book integrates common-sense ideas about problem definitions, such as the need for decisions to be driven by explicit objectives, with sophisticated approaches for modeling decision influence and incorporating feedback from monitoring programs into decision making via adaptive management. Numerous worked examples are provided for illustration, along with detailed case studies illustrating the authors' experience in applying structured approaches. There is also a series of detailed technical appendices. An accompanying website provides computer code and data used in the worked examples. Additional resources for this book can be found at:

<http://www.wiley.com/go/conroy/naturalresourcemanagement> www.wiley.com/go/conroy/naturalresourcemanagement/a.

PROBABILITY MODELS FOR ECONOMIC DECISIONS, SECOND EDITION

MIT Press An introduction to the use of probability models for analyzing risk and economic decisions, using spreadsheets to represent and simulate uncertainty. This textbook offers an introduction to the use of probability models for analyzing risks and economic decisions. It takes a learn-by-doing approach, teaching the student to use spreadsheets to represent and simulate uncertainty and to analyze the effect of such uncertainty on an economic decision. Students in applied business and economics can more easily grasp difficult analytical methods with Excel spreadsheets. The book covers the basic ideas of probability, how to simulate random variables, and how to compute conditional probabilities via Monte Carlo simulation. The first four chapters use a large collection of probability distributions to simulate a range of problems involving worker efficiency, market entry, oil exploration, repeated investment, and subjective belief elicitation. The book then covers correlation and multivariate normal random variables; conditional expectation; optimization of decision variables, with discussions of the strategic value of information, decision trees, game theory, and adverse selection; risk sharing and finance; dynamic models of growth; dynamic models of arrivals; and model risk. New material in this second edition includes two new chapters on additional dynamic models and model risk; new sections in every chapter; many new end-of-chapter exercises; and coverage of such topics as simulation model workflow, models of probabilistic electoral forecasting, and real options. The book comes equipped with Simtools, an open-source, free software used throughout the book, which allows students to conduct Monte Carlo simulations seamlessly in Excel.

PROCEEDINGS OF THE THIRD INTERNATIONAL FORUM ON DECISION SCIENCES

Springer These conference proceedings focus on the topic of decision-making under uncertainty, smart decisions, management simulation and their applications in operations management for power and logistics companies. The Beijing University of Chemical Technology organized IFDS2015, the 3rd International Forum on Decision Sciences, with this year's theme being "Decision Making under Uncertainty". The proceedings collect 7 selected papers presenting the cutting-edge modeling and solution methods and including numerous practical case studies, which are of interest for researchers and practitioners alike. Teachers, students and practitioners working in the fields of decision science, operations research, management science and engineering will benefit from the valuable findings presented in this book.

DECISION THEORY MODELS FOR APPLICATIONS IN ARTIFICIAL INTELLIGENCE: CONCEPTS AND SOLUTIONS

CONCEPTS AND SOLUTIONS

IGI Global One of the goals of artificial intelligence (AI) is creating autonomous agents that must make decisions based on uncertain and incomplete information. The goal is to design rational agents that must take the best action given the information available and their goals. Decision Theory Models for Applications in Artificial Intelligence: Concepts and Solutions provides an introduction to different types of decision theory techniques, including MDPs, POMDPs, Influence Diagrams, and Reinforcement Learning, and illustrates their application in artificial intelligence. This book provides insights into the advantages and challenges of using decision theory models for developing intelligent systems.

MODELING FOR DECISION SUPPORT IN NETWORK-BASED SERVICES

THE APPLICATION OF QUANTITATIVE MODELING TO SERVICE SCIENCE

Springer This book originated from several recent workshops and related activities conducted by the IFIP Working Group 7.6 on "Optimization-Based Computer Aided Modeling and Design." This group has been active for 20 years with the stated objective of developing "high-performance computer-aided systems to support modeling, decision analysis, optimization and multi-criteria decision making." Recently, the group has turned its attention to the application of modeling and optimization to service science, management and engineering (SSME). SSME is still a young research field searching for its theoretical underpinnings, and one which offers many opportunities for analytical modeling to not only advance the understanding, but also to help form the foundation of a new discipline. This book is the result of the group's introductory foray into the application of quantitative modeling to the nascent field of service science with special emphasis on the network aspects of services. The 11 papers presented are grouped into sections on Network Science, Computational and Analytical Modeling, and Knowledge Science. They showcase the value of modeling in a new and timely context and provide many seeds for further exciting research.

MODELS FOR CRITICAL THINKING

A FUNDAMENTAL GUIDE TO EFFECTIVE DECISION MAKING, DEEP ANALYSIS, INTELLIGENT REASONING, AND INDEPENDENT THINKING

Vdz Stay alert and avoid being tricked. Apply logic and analysis to your everyday life. Detect hidden assumptions, spot inconsistencies, and recognize dishonesty. The quality of our lives is determined by the quality of our thinking. And the quality of our thinking is often determined by the quality questions we ask from ourselves. Critical thinking is the art of asking relevant, necessary, and meaningful questions to discover the objective truth behind words, events, and opinions in general. Today we have more access to information than ever before. Information influences our world view and decisions often without us noticing it. Following wrong idols can lead us to bad decisions which lead to unhappiness and a dissatisfying life. When what's "right, beautiful, successful, and cool" gets dictated around us we often forget to think for ourselves and make our own choices. Thus we make bad decisions based on the opinion of others - not even our own. Who should make your life choices for you? You've put your own thoughts, wishes, and opinions off for too long. It's time for that to change. Models for Critical Thinking provides you with unique insights into the nature of thinking and reasoning - why are we often so wrong, why we are so inclined to avoid the responsibility of thinking for ourselves, and how can we develop solid, objective patterns of thought. This book is a guide for the notoriously "trusting," "overwhelmed," and "gullible". It is a deep psychological dive into what makes us stop thinking for ourselves, and how to systematically combat those compulsions. It's a book that stands apart from others because of the plethora of real-life examples, studies, and solutions. If you wish to add to your critical thinking toolkit, you'll find the step-by-step answer in here. Models for Critical Thinking lays out: - The function of critical thinking and its main obstacles. - The varied elements of critical reasoning. - Important abilities and traits of critical thinkers. - The vocabulary of critical analysis, - The models essential to critical thinking. The most secure way of making good decisions is to have well-practiced and predictable strategies that you can use when you are faced with a problem that requires deeper analysis. This book will provide you with helpful exercises and tips to help you can find better solutions to your problems. - Learn the essential critical thinking skills when reading, writing, and speaking; - Be on your guard for hidden cognitive traps when shopping and interacting with advertisers. - Discover the tools and strategies can help you become a more disciplined thinker, developing your analytical, reasoning, and reflective thinking skills. Be ready to learn. Be ready to argue intellectually. - Learn to read between the lines and assess the validity of statements. - Identify and separate logical and illogical reasoning. - Learn how to construct a fair, well-reasoned argument with the help of formal and informal logic. As a physicist and computer scientist, I was always looking for logical, well-founded answers to questions. Yet, I needed to stay open to question my knowledge fairly often, revise my beliefs held, and unlearn some.

THE EUROPEAN FUNDAMENTAL FREEDOMS

A CONTEXTUAL APPROACH

Oxford University Press, USA Introduction Section I: The External and Internal Dimensions 1.: The External Dimension - Law, Courts, and the Courts of Justice of the EU 2.: The Market Freedoms' Common Normative Foundations Section II: The Market Freedoms 3.: The Concept of Restriction on Free Movement- An Introduction 4.: Restricting Free Movement Rights - Unpacking the Normative Foundations 5.: Re-framing the Concept of Restriction 6.: The Fundamental Freedom's Scope - Beyond Restriction Conclusion.

INNOVATION AND MARKETING IN THE PHARMACEUTICAL INDUSTRY

EMERGING PRACTICES, RESEARCH, AND POLICIES

Springer Science & Business Media The pharmaceutical industry is one of today's most dynamic and complex industries, involving commercialization of cutting-edge scientific research, a huge web of stakeholders (from investors to doctors), multi-stage supply chains, fierce competition in the race to market, and a challenging regulatory environment. The stakes are high, with each new product raising the prospect of spectacular success—or failure. Worldwide revenues are approaching \$1 trillion; in the U.S. alone, marketing for pharmaceutical products is, itself, a multi-billion dollar industry. In this volume, the editors showcase contributions from experts around the world to capture the state of the art in research, analysis, and practice, and covering the full spectrum of topics relating to innovation and marketing, including R&D, promotion, pricing, branding, competitive strategy, and portfolio management. Chapters include such features as:

- An extensive literature review, including coverage of research from fields other than marketing
- an overview of how practitioners have addressed the topic
- introduction of relevant analytical tools, such as statistics and ethnographic studies
- suggestions for further research by scholars and students

The result is a comprehensive, state-of-the-art resource that will be of interest to researchers, policymakers, and practitioners, alike.

LANDSCAPE MODELLING AND DECISION SUPPORT

Springer Nature This book contributes to a deeper understanding of landscape and regional modelling in general, and its broad range of facets with respect to various landscape parameters. It presents model approaches for a number of ecological and socio-economic landscape indicators, and also describes spatial decision support systems (DSS), frameworks, and model-based tools, which are prerequisites for deriving sustainable decision and solution strategies for the protection of comprehensively functioning landscapes. While it mainly focuses on the latest research findings in regional modelling and DSS in Europe, it also highlights the work of scientists from Russia. The book is intended for landscape modellers, scientists from various fields of landscape research, university teaching staff, and experts in landscape planning and management, landscape conservation and landscape policy.

DECISION SUPPORT SYSTEMS IN AGRICULTURE, FOOD AND THE ENVIRONMENT: TRENDS, APPLICATIONS AND ADVANCES

TRENDS, APPLICATIONS AND ADVANCES

IGI Global As national and international concern over sustainable resources becomes more prevalent, the need for decision support systems (DSS) increases. The applicable uses of a successful system can assist in the sustainability of resources, as well as the efficiency and management of the agri-environment industry. Decision Support Systems in Agriculture, Food and the Environment: Trends, Applications and Advances presents the development of DSS for managing agricultural and environmental systems, focusing on the exposition of innovative methodologies, from web-mobile systems to artificial intelligence and knowledge-based DSS, as well as their applications in every aspect from harvest planning to international food production and land management. This book provides an in depth look into the growing importance of DSS in agriculture.

HANDBOOK OF THE FUNDAMENTALS OF FINANCIAL DECISION MAKING

World Scientific 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).

RISK ASSESSMENT AND DECISION ANALYSIS WITH BAYESIAN NETWORKS

CRC Press Although many Bayesian Network (BN) applications are now in everyday use, BNs have not yet achieved mainstream penetration. Focusing on practical real-world problem solving and model building, as opposed to algorithms and theory, Risk Assessment and Decision Analysis with Bayesian Networks explains how to incorporate knowledge with data to develop and use (Bayesian) causal models of risk that provide powerful insights and better decision making. Provides all tools necessary to build and run realistic Bayesian network models Supplies extensive example models based on real risk assessment problems in a wide range of application domains provided; for example, finance, safety, systems reliability, law, and more Introduces all necessary mathematics, probability, and statistics as needed The book first establishes the basics of probability, risk, and building and using BN models, then goes into the detailed applications. The underlying BN algorithms appear in appendices rather than the main text since there is no need to understand them to build and use BN models. Keeping the body of the text free of intimidating mathematics, the book provides pragmatic advice about model building to ensure models are built efficiently. A dedicated website, www.BayesianRisk.com, contains executable versions of all of the models described, exercises and worked solutions for all chapters, PowerPoint slides, numerous other resources, and a free downloadable copy of the AgenaRisk software.

SCIENCE AND JUDGMENT IN RISK ASSESSMENT

National Academies Press The public depends on competent risk assessment from the federal government and the scientific community to grapple with the threat of pollution. When risk reports turn out to be overblown--or when risks are overlooked--public skepticism abounds. This comprehensive and readable book explores how the U.S. Environmental Protection Agency (EPA) can improve its risk assessment practices, with a focus on implementation of the 1990 Clean Air Act Amendments. With a wealth of detailed information, pertinent examples, and revealing analysis, the volume explores the "default option" and other basic concepts. It offers two views of EPA operations: The first examines how EPA currently assesses exposure to hazardous air pollutants, evaluates the toxicity of a substance, and characterizes the risk to the public. The second, more holistic, view explores how EPA can improve in several critical areas of risk assessment by focusing on cross-cutting themes and incorporating more scientific judgment. This comprehensive volume will be important to the EPA and other agencies, risk managers, environmental advocates, scientists, faculty, students, and concerned individuals.

AN INTRODUCTION TO MATHEMATICAL MODELING

Courier Corporation Accessible text features over 100 reality-based examples pulled from the science, engineering, and operations research fields. Prerequisites: ordinary differential equations, continuous probability. Numerous references. Includes 27 black-and-white figures. 1978 edition.

MAKING TRANSPARENT ENVIRONMENTAL MANAGEMENT DECISIONS

APPLICATIONS OF THE ECOSYSTEM MANAGEMENT DECISION SUPPORT SYSTEM

Springer Science & Business Media Since 1997, the Ecosystem Management Decision Support (EMDS) system has been used around the world to support environmental analysis and planning in many different application areas, and it has been applied over a wide range of geographic scales, from forest stands to entire countries. An extensive sampling of this diversity of applications is presented in section 2, in which EMDS application developers describe the varied uses of the system. These accounts, together with the requisite background in section 1, provide valuable practical insights into how the system can be applied in the general domain of environmental management.

PROBABILITY, STATISTICS, AND DECISION FOR CIVIL ENGINEERS

Courier Corporation "This text covers the development of decision theory and related applications of probability. Extensive examples and illustrations cultivate students' appreciation for applications, including strength of materials, soil mechanics, construction planning, and water-resource design. Emphasis on fundamentals makes the material accessible to students trained in classical statistics and provides a brief introduction to probability. 1970 edition"--

INTELLIGENT METHODS IN COMPUTING, COMMUNICATIONS AND CONTROL

PROCEEDINGS OF THE 8TH INTERNATIONAL CONFERENCE ON COMPUTERS COMMUNICATIONS AND CONTROL (ICCCC) 2020

Springer Nature This book presents the proceedings of the International Conference on Computers Communications and Control 2020 (ICCCC2020), covering topics such as theory for computing and communications, integrated solutions in computer-based control, computational intelligence and soft computing, decision-making and support systems. The ICCCC was founded in Romania in 2006, and its eight editions have featured respected keynote speakers and leading computer scientists from around the globe.

THE DEVELOPMENT OF AN INTEGRATED PLANNING AND DECISION SUPPORT SYSTEM (IPDSS) FOR LAND CONSOLIDATION

Springer Science & Business Media This book provides an extensive review of three interrelated issues: land fragmentation, land consolidation, and land reallocation, and it presents in detail the theoretical background, design, development and application of a prototype integrated planning and decision support system for land consolidation. The system integrates geographic information systems (GIS) and artificial intelligence techniques including expert systems (ES) and genetic algorithms (GAs) with multi-criteria decision methods (MCDM), both multi-attribute (MADM) and multi-objective (MODM). The system is based on four modules for measuring land fragmentation; automatically generating alternative land redistribution plans; evaluating those plans; and automatically designing the land partitioning plan. The presented research provides a new scientific framework for land-consolidation planning both in terms of theory and practice, by presenting new findings and by developing better tools and methods embedded in an integrated GIS environment. It also makes a valuable contribution to the fields of GIS and spatial planning, as it provides new methods and ideas that could be applied to improve the former for the benefit of the latter in the context of planning support systems. "From the 1960s, ambitious research activities set out to observe regarding IT-support of the complex and time consuming redistribution processes within land consolidation - without any practically relevant results, until now. This scientific work is likely to close that gap. This distinguished publication is highly recommended to land consolidation planning experts, researchers and academics alike." - Prof. Dr.-Ing. Joachim Thomas, Münster/ Germany "Planning support systems take new scientific tools based on GIS, optimisation and simulation and use these to inform the process of plan-making and policy. This book is one of the first to show how this can be consistently done and it is a triumph of demonstrating how such systems can be made operational. Essential reading for planners, analysts and GI scientists." - Prof. Michael Batty, University College London

FUNDAMENTALS OF CLINICAL DATA SCIENCE

Springer This open access book comprehensively covers the fundamentals of clinical data science, focusing on data collection, modelling and clinical applications. Topics covered in the first section on data collection include: data sources, data at scale (big data), data stewardship (FAIR data) and related privacy concerns. Aspects of predictive modelling using techniques such as classification, regression or clustering, and prediction model validation will be covered in the second section. The third section covers aspects of (mobile) clinical decision support systems, operational excellence and value-based healthcare. Fundamentals of Clinical Data Science is an essential resource for healthcare professionals and IT consultants intending to develop and refine their skills in personalized medicine, using solutions based on large datasets from electronic health records or telemonitoring programmes. The book's promise is "no math, no code" and will explain the topics in a style that is optimized for a healthcare audience.

SIMULATION-BASED ALGORITHMS FOR MARKOV DECISION PROCESSES

Springer Science & Business Media Markov decision process (MDP) models are widely used for modeling sequential decision-making problems that arise in engineering, economics, computer science, and the social sciences. Many real-world problems modeled by MDPs have huge state and/or action spaces, giving an opening to the curse of dimensionality and so making practical solution of the resulting models intractable. In other cases, the system of interest is too complex to allow explicit specification of some of the MDP model parameters, but simulation samples are readily available (e.g., for random transitions and costs). For these settings, various sampling and population-based algorithms have been developed to overcome the difficulties of computing an optimal solution in terms of a policy and/or value function. Specific approaches include adaptive sampling, evolutionary policy iteration, evolutionary random policy search, and model reference adaptive search. This substantially enlarged new edition reflects the latest developments in novel algorithms and their underpinning theories, and presents an updated account of the topics that have emerged since the publication of the first edition. Includes: innovative material on MDPs, both in constrained settings and with uncertain transition properties; game-theoretic method for solving MDPs; theories for developing roll-out based algorithms; and details of approximation stochastic annealing, a population-based on-line simulation-based algorithm. The self-contained approach of this book will appeal not only to researchers in MDPs, stochastic modeling, and control, and simulation but will be a valuable source of tuition and reference for students of control and operations research.

DECISION MODELS FOR INDUSTRIAL SYSTEMS ENGINEERS AND MANAGERS

Reader's Digest Young Families

DECISION ECONOMICS: COMPLEXITY OF DECISIONS AND DECISIONS FOR COMPLEXITY

Springer Nature This book is based on the International Conference on Decision Economics (DECON 2019). Highlighting the fact that important decision-making takes place in a range of critical subject areas and research fields, including economics, finance, information systems, psychology, small and international business, management, operations, and production, the book focuses on analytics as an emerging synthesis of sophisticated methodology and large data systems used to guide economic decision-making in an increasingly complex business environment. DECON 2019 was organised by the University of Chieti-Pescara (Italy), the National Chengchi University of Taipei (Taiwan), and the University of Salamanca (Spain), and was held at the Escuela politécnica Superior de Ávila, Spain, from 26th to 28th June, 2019. Sponsored by IEEE Systems Man and Cybernetics Society, Spain Section Chapter, and IEEE Spain Section (Technical Co-Sponsor), IBM, Indra, Viewnext, Global Exchange, AEPIA-and-APPIA, with the funding supporting of the Junta de Castilla y León, Spain (ID: SA267P18-Project co-financed with FEDER funds)

FUNDAMENTAL RIGHTS AND THE LEGAL OBLIGATIONS OF BUSINESS

Cambridge University Press This book develops an analytical legal framework for determining the substantive fundamental rights obligations of corporations.

ECIME2015-9TH EUROPEAN CONFERENCE ON IS MANAGEMENT AND EVALUATION

ECIME 2015

Academic Conferences and publishing limited The 9th European Conference on Information Management and Evaluation (ECIME) is being hosted this year by the University of the West of England, Bristol, UK on the 21-22 September 2015. The Conference Chair is Dr Elias Pimenidis, and the Programme Chair is Dr Mohammed Odeh both from the host University. ECIME provides an opportunity for individuals researching and working in the broad field of information systems management, including IT evaluation to come together to exchange ideas and discuss current research in the field. This has developed into a particularly important forum for the present era, where the modern challenges of managing information and evaluating the effectiveness of related technologies are constantly evolving in the world of Big Data and Cloud Computing. We hope that this year's conference will provide you with plenty of opportunities to share your expertise with colleagues from around the world. The keynote speakers for the Conference are Professor Haris Mouratidis, from the School of Computing, Engineering and Mathematics, University of Brighton, UK who will address the topic "Rethinking Information Systems Security", Dr Mohammed Odeh, from the University of the West of England, Bristol, UK and Dr. Mario Kossmann from Airbus, UK who will talk about "The Significance of Information Systems Management and Evaluation in the Aerospace Industry' ECIME 2015 received an initial submission of 55 abstracts. After the double-blind peer review process 28 academic Research papers, 5 PhD Research papers, 1 Masters Research paper and 3 Work in Progress papers have been accepted for these Conference Proceedings. These papers represent research from around the world, including Austria, Botswana, Cyprus, Czech Republic, Ireland, Japan, Kuwait, New Zealand, Norway, Poland, Portugal, Slovakia, Russia, South Africa, South Korea, Sweden, The Netherlands, UK and the USA.

KNOWLEDGE MANAGEMENT IN ORGANIZATIONS

12TH INTERNATIONAL CONFERENCE, KMO 2017, BEIJING, CHINA, AUGUST 21-24, 2017, PROCEEDINGS

Springer This book contains the refereed proceedings of the 12th International Conference on Knowledge Management in Organizations, KMO 2017, held in Beijing, China, in August 2017. The theme of the conference was "Emerging Technology and Knowledge Management in Organizations." The 45 contributions accepted for KMO 2017 were selected from 112 submissions and are organized in topical sections on: Knowledge Management Models and Behaviour Studies; Knowledge Sharing; Knowledge Transfer and Learning; Knowledge and Service Innovation; Knowledge and Organization; Information Systems Research; Value Chain and Supply Chain; Knowledge Re-presentation and Reasoning; Data Mining and Intelligent Science; Big Data Management; Internet of Things and Network.

A STUDY OF BUSINESS DECISIONS UNDER UNCERTAINTY

THE PROBABILITY OF THE IMPROBABLE - WITH EXAMPLES FROM THE OIL AND GAS EXPLORATION INDUSTRY

Universal-Publishers This dissertation will discuss the uncertainty encountered in the daily operations of businesses. The concepts will be developed by first giving an overview of probability and statistics as used in our everyday activities, such as the basic principles of probability, univariate and multivariate statistics, data clustering and mapping, as well as time sequence and spectral analysis. The examples used will be from the oil and gas exploration industry because the risks taken in this industry are normally quite large and are ideal for showing the application of the various techniques for minimizing risk. Subsequently, the discussion will deal with basic risk analysis, spatial and time variations of risk, geotechnical risk analysis, risk aversion and how it is affected by personal biases, and how to use portfolios to hedge risk together with the application of real options. Next, fractal analysis and its application to economics and risk analysis will be examined, followed by some examples showing the change in the Value at Risk under Fractal Brownian Motions. Finally, a neural network application is shown whereby some of these risks and risk factors will be combined to forecast the best possible outcome given a certain knowledge base. The chapters will discuss: Basic probability techniques and uncertainty principles Analysis and diversification for exploration projects The value and risk of information in the decision process Simulation techniques and modeling of uncertainty Project valuation and project risk return Modeling risk propensity or preference analysis of exploration projects Application of fractals to risk analysis Simultaneous prediction of strategic risk and decision attributes using multivariate statistics and neural networks"