Decision Science and Social Risk Governance A Comparative Evaluation of Cost Benefit Analysis Decision Analysis And Other Formal Decision Aiding Approaches Risk Governance And Society

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Decision Science and Social Risk Governance M-W Moskowitz 1980-90

Breakthroughs in Decision Science and Risk Analysis-Louis Anthony Cox, Jr. 2015-02-23 Discover recent powerful advances in the theory, methods, and applications of decision and risk analysis Focusing on modern advances in the field, the book highlights recent and future breakthroughs in decision science and risk analysis. The book presents themes and methods for making, improving, and learning from significant practical decisions. The book introduces recent applications of decision science to readers from multiple backgrounds, including psychology, economics, statistics, engineering, risk analysis, operations research, and management science. Highlighting topics not conventionally found in DA textbooks, the book illustrates genuine advances in practical decision science, including developments and trends that depart from, or break with, the standard axiomatic DA paradigm in fundamental and useful ways. The book features methods and techniques for dealing with cognitive and affective factors, adaptive learning and intelligence in robust decision-making, and the use of a variety of models to explain data and actions. Additionally, the book illustrates how these techniques can be applied to dramatically improve risk management and decision making. This is a welcome and important contribution to the field of decision science and risk analysis.

Decision Science and Social Risk Governance M. W Moskowitz 1980-90

Data Science for Economics and Finance-Sergio Consoli 2021 This open access book covers the use of data science, including advanced machine learning, big data analytics, Semantic Web technologies, natural language processing, data visualization, and decision sciences methods in economics and finance. The book is a comprehensive guide for researchers, practitioners, and students interested in applying modern data science tools and techniques to economic analysis.

In addition, it shows some successful applications of advanced data science solutions used to extract new knowledge from data, referred to as deep structures models. The book starts with an introductory analysis of the use of data science technologies in economics and finance and is followed by thirteen chapters showing successful applications of data science methodologies, touching on particular topics related to novel big data sources and technologies for economic analysis (e.g. social media and news); big data models leveraging on supervised/unsupervised (deep) machine learning; natural language processing to build economic and financial indicators; social network analysis for understanding how economic variables change over time series analysis. This book is relevant to all stakeholders involved in digital and data-intensive research in economics and finance, helping them to understand the main opportunities and challenges, become familiar with the latest methodological findings, and learn how to use and evaluate the performances of novel tools and frameworks. It primarily targets data scientists and business analysts exploiting data science technologies, and it will also be a useful reference for researchers in economics and finance. The book aims to bring modern and effective data science solutions to create tangible innovations for economic and financial applications.

Decision Science-Bhupi Nandan Sengupta 2016-11-30 This handbook is an endeavour to cover many current, relevant, and essential topics related to decision sciences in a scientific manner. Using this handbook, graduate students, researchers, as well as practitioners from engineering, statistics, sociology, economics, etc. will find a new, up-to-date perspective on how these topics can be understood and analyzed. The book contains an excellent bibliography (reference/journal list), information about a variety of datasets, illustrated pseudo-codes, and discussions of future trends in research. Covering topics ranging from optimization, networks and games, multi-objective optimization, machine learning, and data science, the book provides a comprehensive and updated view of the current status of decision sciences. In addition, it also offers a unique perspective by integrating the latest methodologies and tools, including simulation modeling, decision support system, data analysis environment, queuing theory, etc., which are not typically covered in other books. This book is an excellent resource for researchers, practitioners, and students in the fields of decision sciences, operations research, and applied mathematics.

Handbook of Decision Science-Michael A. Dieboltb 2016-09-26 This comprehensive reference delves into the major process of medical decision making—both the nuts-and-bolts access and insurance issues thus the guide choices and the cognitive and affective factors that can make patients decide against their best interests. Wide-ranging coverage offers a robust evidence base for understanding decision making across the lifespan, among different populations, and across multiple areas of life, including both clinical and nonclinical domains.

The section on applied decision making reviews the effectiveness of decision-making tools in healthcare, featuring real-world examples and guidelines for tailored communications with patients. Throughout, contributors spotlight the practical importance of the field and the pressing need to strengthen health decision-making skills on both sides of the clinician/client dyad. Among the Handbook’s topics: From laboratory to clinic and back: connecting neuroscience, genomics, and clinical medicine. The pathways to the fruit of the evidence: using behavioral science to promote the integration of behavior change: moving from theoretical principles to practices. Shared decision making and the patient- provider relationship. Overcoming the many pitfalls of confronting risk. Evidence-based medicine and the role of the primary care provider. The role of emerging technologies in decision making. The Handbook of Health Decision Science will interest a wide span of professionals, among them health and clinical psychologists, behavioral researchers, health policymakers, and sociologists.

Risk and Decision Making -2012-01

Recent Trends in Decision Science and Management-Tao-Sheng Wang 2020-05-07 This book discusses an emerging field of research, and it will also be a useful reference for researchers in economics and finance. The book is also useful for practitioners in the field of decision science, including decision analysts, data scientists, and business analysts.

The Science of Bureaucracy: David Damore 2020-01-21 How the US Environmental Protection Agency went from a government agency to a platform for scientific research and how it has been transformed by the rise of data science. Damore traces the creation of these methods for the governance of risk, the controversy to which they responded, and the controversies that are engendered. He draws on the field's core practitioners to describe how they work, how they were used, and how they shaped the EPA. The book offers a detailed look at the rise of data science in government, including its successes and its failures.

Understanding Risk-Raghu Nandan Sengupta 2016-11-30 This handbook is an endeavour to cover many current, relevant, and essential topics related to decision sciences in a scientific manner. Using this handbook, graduate students, researchers, as well as practitioners from engineering, statistics, sociology, economics, etc. will find a new, up-to-date perspective on how these topics can be understood and analyzed. The book contains an excellent bibliography (reference/journal list), information about a variety of datasets, illustrated pseudo-codes, and discussions of future trends in research. Covering topics ranging from optimization, networks and games, multi-objective optimization, machine learning, and data science, the book provides a comprehensive and updated view of the current status of decision sciences. In addition, it also offers a unique perspective by integrating the latest methodologies and tools, including simulation modeling, decision support system, data analysis environment, queuing theory, etc., which are not typically covered in other books. This book is an excellent resource for researchers, practitioners, and students in the fields of decision sciences, operations research, and applied mathematics.

Science and Decisions-National Research Council 2009-03-24 Risk assessment has become a dominant public policy tool for making choices, based on limited resources, to protect public health and the environment. It has been instrumental to the missions of the U.S. Environmental Protection Agency (EPA) as well as other federal agencies. The US public has come to expect that the government will respond to emerging problems with action based on scientific research, and that research will be used to inform and prioritize policy decisions. Decisions based on scientific research by the US government, particularly in the EPA, have thus generated substantial interest in the scientific community and beyond. The book is a valuable resource for researchers, practitioners, and students in the fields of decision sciences, operations research, and applied mathematics.

Judgment and Decision Making-Baruch Fischhoff 2013-04-17 Behavioral decision research offers a distinctive approach to understanding and improving decision making. It combines theory and method from multiple disciplines (psychology, economics, statistics, decision theory, management science). It employs both empirical methods, to study how decisions are actually made, and analytical ones, to study how decisions should be made and how consequential imperfections are. This book brings together key publications, selected to represent the core of behavioral decision research. Our objective is to provide an up-to-date introduction to the key elements in a research program that represents the scope of the field, while offering depth in each topic. Together, they provide a vision for what has become a burgeoning field.

Understanding Risk-National Research Council 1996-05-05 Understanding Risk addresses a central dilemma of risk communication in a democracy: detailed scientific and technical information is essential for making decisions about the risks people who make decisions.Focusing on the decisions that people make about complex risks such as global climate change, the book provides an overview of the key link of risk characterization to is provide needed and appropriate information to decisionmakers and the public. This important new volume illustrates that making risks understandable to the public involves much more than translating scientific knowledge into practical information. It also describes how technology tools and systems can provide an effective means of communicating about risks. The book is a valuable resource for researchers, practitioners, and students in the fields of decision sciences, operations research, and applied mathematics.
Decision Science and Technology

James Shanteau 2012-06-12 Decision Science and Technology is a comprehensive collection written in honor of a remarkable man, Ward Edwards. Among Ward’s many contributions are two significant accomplishments, either of which would have been enough for a very distinguished career: First, Ward was the founder of behavioral decision theory. This interdisciplinary discipline addresses the question of how people actually confront decisions, as opposed to the question of how they should make decisions. Second, Ward laid the groundwork for sound normative systems by noticing which tasks humans can do well and which tasks they cannot. This made it possible to program computers to do some things better than humans could, and hence it led to the advent of the computer. The book is divided into four sections: Behavioral Decision Theory examines theoretical descriptions and empirical findings about human decision-making. Decision Analysis examines issues in societal decision-making. The final section, Historical Notes, provides some historical perspectives on the development of the decision theory. Within these sections, major, multidisciplinary scholars in decision theory have written chapters exploring some very bold themes in the field, which is the main reason for the breadth of the Decision Analysis field; its goals lie between those of pure and applied. In this volume, the chapters by Barnier and Barrett; Fishburn; Fryback; Keeney; Morgen, Perciacc, and Kadane; Howard; Phillips; Slovic and Gregory; Winkler; and, above all, von Winterfeldt focus on those lines. Decision science originally developed out of concern with problems of applied work; such as is represented in this volume, will help the field to remain strong.

Breakthroughs in Decision Science and Risk Analysis

Louis A. Git 2015-03-30 Discover recent powerful advances in decision science and risk analysis that provide new insights into the nature of complex systems and new opportunities for innovations in the field of decision analysis (DA). Breakthroughs in Decision Science and Risk Analysis presents theoretical innovations and empirical advancements that open new Frontiers for research and discussion of the latest developments in DA. The book explains how decision theory helps to understand the differences between theories and to combine them. It also provides some historical perspectives on the development of the decision theory. Within these sections, major, multidisciplinary scholars in decision science have written chapters exploring some very bold themes in the field, which is the main reason for the breadth of the Decision Analysis field; its goals lie between those of pure and applied. In this volume, the chapters by Barnier and Barrett; Fishburn; Fryback; Keeney; Morgen, Perciacc, and Kadane; Howard; Phillips; Slovic and Gregory; Winkler; and, above all, von Winterfeldt focus on those lines. Decision science originally developed out of concern with problems of applied work; such as is represented in this volume, will help the field to remain strong.

Perspectives on Uncertainty and Risk-Marilyn B.A. van Anselt 2013-03-05 This volume is intended to stimulate a change in the practice of decision support, advocating an interdisciplinary approach centered on both natural and social sciences. It presents original contributions by leading scholars in the field, describing recent applications and developments in the theory and practice of decision support. The book focuses on the role of scientists in decision support, and how they can increase the understanding of the interactions between the economy, society, and the environment. It also presents new perspectives on the role of decision support in policy and planning, and discusses the implications of advances in complexity science for decision support.

Risk and Society: The Interaction of Science, Technology and Public Policy-M Waterstone 2012-04-21 Life in the last quarter of the twentieth century presents a baffling array of complex issues. The benefits of technology are arrayed against the risks and hazards of some technologically modern means (frequent, though not always, accurately reported) acts of the natural world (both human and non-human). Policy makers are faced with the proposition of obtaining technologies whose benefits are clear, and whose costs are charged with making public policy. Some of the most challenging of these issues result because of the ability of science to describe the world in many different ways. The book by Anthony Cox, Jr. PhD, is Chief Sciences Officer of NextHealth Technologies, a Denver-based health care and risk analysis company specializing in quantitative risk assessment, risk analysis, causal modeling, and operations research. Cox is also Founder and former President of Decision Technologies, a Boulder-based company specializing in quantitative risk assessment, risk analysis, causal modeling, and operations research. This book is intended to provide a basis for understanding the role of science in decision making and policy development.


Decision Science and Technology

James Shanteau 2012-06-12 Decision Science and Technology is a comprehensive collection written in honor of a remarkable man, Ward Edwards. Among Ward’s many contributions are two significant accomplishments, either of which would have been enough for a very distinguished career: First, Ward was the founder of behavioral decision theory. This interdisciplinary discipline addresses the question of how people actually confront decisions, as opposed to the question of how they should make decisions. Second, Ward laid the groundwork for sound normative systems by noticing which tasks humans can do well and which tasks they cannot. This made it possible to program computers to do some things better than humans could, and hence it led to the advent of the computer. The book is divided into four sections: Behavioral Decision Theory examines theoretical descriptions and empirical findings about human decision-making. Decision Analysis examines issues in societal decision-making. The final section, Historical Notes, provides some historical perspectives on the development of the decision theory. Within these sections, major, multidisciplinary scholars in decision theory have written chapters exploring some very bold themes in the field, which is the main reason for the breadth of the Decision Analysis field; its goals lie between those of pure and applied. In this volume, the chapters by Barnier and Barrett; Fishburn; Fryback; Keeney; Morgen, Perciacc, and Kadane; Howard; Phillips; Slovic and Gregory; Winkler; and, above all, von Winterfeldt focus on those lines. Decision science originally developed out of concern with problems of applied work; such as is represented in this volume, will help the field to remain strong.

Application of Decision Science in Business and Management-Fausto Pedro Gadea Marín 2020-03-04 The application of decision science in business and management has become increasingly important in recent years. This book presents a comprehensive overview of the field, covering both theoretical foundations and practical applications. The book is divided into four parts: Part I introduces the basic concepts and tools of decision science, including decision analysis, decision modeling, and decision support systems. Part II discusses the application of decision science in business and management, focusing on areas such as strategic management, project management, and risk management. Part III examines the role of decision science in policy-making and public management, with a focus on areas such as health policy, environmental policy, and social policy. Part IV explores the future of decision science, discussing emerging trends and potential new areas for research. The book is written by a team of experts in the field, and is suitable for students, researchers, and practitioners who are interested in the application of decision science in business and management.
Understanding of past and future floods in Australia Discusses disturbances on landscape Includes effects on aquatic birds, infectious diseases, and economy

Making Hard Decisions with DecisionTools-Robert T. Clemons 2013-05-28 MAKING HARD DECISIONS WITH DECISIONTOOLS is a new edition of Bob Clemons’s best-selling title, MAKING HARD DECISIONS. This straightforward book teaches the fundamental ideas of decision analysis, without an overly technical explanation of the mathematics used in decision analysis. This new version incorporates and implements the powerful DecisionTools software by Palisade Corporation, the world’s leading toolkit for risk and decision analysis. At the end of each chapter, topics are illustrated with step-by-step instructions for DecisionTools. This new version makes the text more useful and relevant to students in business and engineering. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Cross-Cultural Risk Perception-Ortwin Renn 2000-01-31 Cross-Cultural Risk Perception demonstrates the richness and wealth of theoretical insights and practical information that risk perception studies can offer to policy makers, risk experts, and interested parties. The book begins with an extended introduction summarizing the state of the art in risk perception research and core issues of cross-cultural comparisons. The main body of the book consists of four cross-cultural studies on public attitudes towards risk in different countries, including the United States, Australia, New Zealand, France, Germany, Sweden, Bulgaria, Romania, Japan, and China. The last chapter critically discusses the main findings from these studies and proposes a framework for understanding and investigating cross-cultural risk perception. Finally, implications for communication, regulation and management are outlined. The two editors, sociologist Ortwin Renn (Center of Technology Assessment, Germany) and psychologist Malena Melin (Swedish Water Research Institute, Sweden) have worked closely with this research for the last three decades. They both have written extensively on this subject and provided new empirical and theoretical insights into the growing body of international risk perception research.

Trigger Factors in Transfusion Medicine-C. Th. Smit Shiba 1996-10-31 Transfusion medicine is an excellent way for the healthy community to help the sick. However, service providers and patients have much to gain from the establishment of guidelines concerning when and how it is used. An important first step would be to introduce informed consent for transfusion recipients. Discussions with blood banks and assessment of clinical demand would also be necessary, taking into account the needs of patients and physicians, and the availability of products. Unfortunately, the efficacy and safety of transfusion products can be difficult to ascertain. Furthermore, although major advances have been made in safety, the risks of giving and receiving blood are still seen as high. It is vital to learn what underlies that perception and how to counter it. The policies and protocols used to establish surgical criteria for blood transfusions should be explored. Finally, clinical audits can help evaluate the benefit/risk ratio of transfusion; they may be carried out by hospital transfusion committees but are likely to be more successful with the support of national and international legislative and regulatory bodies. The importance of appropriate and effective risk communication is highlighted throughout the book. The experiences of the authors and their colleagues in several countries, perhaps with ex-ipsa expanded haemostatic cell therapy as the next milestone. All these key points and controversies are explored in this book, which paints a broad picture of the current state and future trends in transfusion medicine.

Principles of Risk Analysis-Charles Yoe 2019-01-30 In every decision problem there are things we know and things we do not know. Risk analysis uses the best available evidence to assess what we know while it is carefully intentional in the way it addresses the importance of the things we do not know in the evaluation of decision choices and decision outcomes. The field of risk analysis science continues to expand and grow and the second edition of Principles of Risk Analysis: Decision Making Under Uncertainty responds to this evolution with several significant changes. The language has been updated and expanded throughout the text and the book features a new chapter on risk communication. It remains a single-authored book and follows the same style—based on the author’s decades of experience as a risk analyst, trainer, and educator—strips away the mysterious aura that often accompanies risk analysis. Features: Details the tasks of risk management, risk assessment, and risk communication in a straightforward, conceptual manner Provides sufficient detail to empower professionals in any discipline to become risk practitioners Expands the risk management emphasis with a new chapter to serve private industry and a growing public sector interest in the growing practice of enterprise risk management Describes dozens of quantitative and qualitative risk assessment tools in a new chapter Practical guidance and ideas for using risk science to improve decisions and their outcomes is found in a new chapter on decision making under uncertainty Practical methods for helping risk professionals to tell their risk story are the focus of a new chapter Features an expanded set of examples of the risk process that demonstrate the growing applications of risk analysis As before, this book continues to appeal to professionals who want to learn and apply risk science in their own professions as well as students preparing for professional careers. This book remains a discipline-free guide to the principles of risk analysis that is accessible to all interested practitioners. Files used in the creation of this book and additional exercises as well as a free student version of Palisade Corporation’s DecisionTools Suite software are available with the purchase of this book. A less detailed introduction to the risk analysis science tasks of risk management, risk assessment, and risk communication is found in Primer of Risk Analysis: Decision Making Under Uncertainty, Second Edition, ISBN: 978-1-138-31228-9.

Handbook of the Economics of Risk and Uncertainty-Mark Machina 2013-11-14 The need to understand the theories and applications of economic and financial risk has been clear to everyone since the financial crisis, and this collection of original essays proffers broad, high-level explanations of risk and uncertainty. The economics of risk and uncertainty is unlike most branches of economics in spanning the individual decision-maker to the market (and indeed, social decisions), and ranging from purely theoretical analysis through individual experimentation, empirical analysis, and applied and policy decisions. It also has close and sometimes conflicting relationships with theoretical and applied statistics, and psychology. The aim of this volume is to provide an overview of diverse aspects of this field, ranging from classical and foundational work through current developments. Presents coherent summaries of risk and uncertainty that inform major areas in economics and finance Divides coverage between theoretical, empirical, and experimental findings Makes the economics of risk and uncertainty accessible to scholars in fields outside economics.

Drought, Risk Management, and Policy-Linda Courtenay Bettellic 2013-01-28 Australia and the United States face very similar challenges in dealing with drought. Both countries cover a range of biophysical conditions, both are federations that provide considerable responsibility to state governments for water and land management, and both face the challenges in balancing rural industry and urban development, especially in relation to the allocation of water. Yet there are critical differences in their approaches to drought science and policy. Drought, Risk Management, and Policy: Decision Making Under Uncertainty explores the complex relationship between scientific research and decision making with respect to drought in Australia and the United States. Risk Management, not Crisis Management Droughting on the work of respected academic researchers and policy practitioners, the book discusses the issues associated with decision making under uncertainty and the perspectives, needs, and expectations of scientists, policy makers, and resource users. Starting from the position that drought is a risk to be managed, it considers the implications of the predicted impacts of future climate change. The book also examines the policy responses to these challenges and the role of scientific input into the policy process. Contributors look at drought risk management in action and how and why users in the community incorporate drought science into their decision making. The book concludes with lessons learned about science, policy, and managing uncertainty. Get insight into the relationship between Science and Policy—and How to Turn That Into More Effective Decision Making Throughout, the contributors identify possible reasons for differences in the use and application of drought sciences and approach to policy between the two countries, offering valuable insights into the relationship between science and policy. The book also highlights the challenges faced at the science-policy interface. Crossing international borders and disciplinary boundaries, this timely collection tackles drought policy development as part of the broader discussion about climate change. Although the focus is on Australia and the United States, many of the lessons learned are relevant for any country dealing with drought.

Regulating Health and Environmental Risks Under WTO Law-Lukas Czvoraczky 2010 The last sixty years witnessed an unprecedented expansion of international trade. The system created by the General Agreement on Tariffs and Trade and later by the World Trade Organization (WTO) has proved to be an efficient instrument for the elimination of trade and tariff barriers. This process coincided with increased national regulatory controls, which were particularly visible in the area of risk regulation. Governments, responding to the demands of their domestic constituencies, have adopted a wide range of regulatory measures aimed at protecting the environment and human health. Although, for the most part, the new regulatory initiatives served legitimate objectives, it has also turned out that internal measures might become an attractive vehicle for protectionism, taking the place of what was traditionally occupied by tariff barriers. Regulating Health and Environmental Risks under the WTO Law examines the WTO Agreement on the Application of Sanitary and Phytosanitary Measures (SPS Agreement). In this it an attempt by the international community to limit possible abuses while assuring WTO Members of an extensive margin of regulatory discretion. The central problem that the book tackles is whether the system established by the SPS Agreement can address the existing and potential challenges of a new interdependent world. In answering this question, the author provides a comprehensive and critical examination of the substantive provisions of the Agreement and corresponding case law. Towards this end, the book particularly focuses on two issues: the consistency in the interpretation of the SPS Agreement and the appropriateness of its various requirements. This analysis leads the author to conclude that despite some interpretative failures of SPS case law, the system established by the SPS Agreement seems to provide an effective solution for the supervision of domestic SPS measures.

Risk Evaluation and Management-V.T. Cornell 2012-12-06 Public attention has focused in recent years on an array of technological risks to health, safety, and the environment. At the same time, responsibilities for technologically risk management, assessment, and evaluation have grown in both the public and private sectors because of a perceived need to anticipate, prevent, or reduce the risks inherent in modern society. In attempting to meet these responsibilities, legislators, judicial, regulatory, and private sector institutions have had to deal with the extraordinarily complex problems of assessing, understanding, and regulating these new technologies. Governments, responding to the demands of their domestic constituencies, have adopted a wide range of regulatory measures aimed at protecting the environment and human health. Although, for the most part, the new regulatory initiatives served legitimate objectives, it has also turned out that internal measures might become an attractive vehicle for protectionism, taking the place of what was traditionally occupied by tariff barriers. Regulating Health and Environmental Risks under the WTO Law examines the WTO Agreement on the Application of Sanitary and Phytosanitary Measures (SPS Agreement). In this it an attempt by the international community to limit possible abuses while assuring WTO Members of an extensive margin of regulatory discretion. The central problem that the book tackles is whether the system established by the SPS Agreement can address the existing and potential challenges of a new interdependent world. In answering this question, the author provides a comprehensive and critical examination of the substantive provisions of the Agreement and corresponding case law. Towards this end, the book particularly focuses on two issues: the consistency in the interpretation of the SPS Agreement and the appropriateness of its various requirements. This analysis leads the author to conclude that despite some interpretative failures of SPS case law, the system established by the SPS Agreement seems to provide an effective solution for the supervision of domestic SPS measures.

Public Policy Analytics-Enn Siilf 2021-08-15 Public Policy Analytics: Code & Context for Data Science in Government teaches readers how to address complex public policy problems with data and analytics using reproducible methods in R. Each of the eight chapters provides a detailed introduction to the tools necessary to develop exploratory indicators; understand ‘spatial process’ and develop spatial analytics; how to develop ‘useful’ policy analytics; how to communicate these analytics through the media and data visualizations; and why, ultimately, data science and ‘Planning’ are one and the same. A graduate-level introduction to data science, this book will appeal to researchers and data scientists at the intersection of data analytics and public policy, as well as readers who wish to understand how algorithms will affect the future of government.