

Access Free Dawes Hastie Rational Choice Pdf Free Copy

Simple Heuristics that Make Us Smart Feb 26 2021 Simple Heuristics That Make Us Smart invites readers to embark on a new journey into a land of rationality that differs from the familiar territory of cognitive science and economics. Traditional views of rationality tend to see decision makers as possessing superhuman powers of reason, limitless knowledge, and all of eternity in which to ponder choices. To understand decisions in the real world, we need a different, more psychologically plausible notion of rationality, and this book provides it. It is about fast and frugal heuristics--simple rules for making decisions when time is pressing and deep thought an unaffordable luxury. These heuristics can enable both living organisms and artificial systems to make smart choices, classifications, and predictions by employing bounded rationality. But when and how can such fast and frugal heuristics work? Can judgments based simply on one good reason be as accurate as those based on many reasons? Could less knowledge even lead to systematically better predictions than more knowledge? Simple Heuristics explores these questions, developing computational models of heuristics and testing them through experiments and analyses. It shows how fast and frugal heuristics can produce adaptive decisions in situations as varied as choosing a mate, dividing resources among offspring, predicting high school drop out rates, and playing the stock market. As an interdisciplinary work that is both useful and engaging, this book will appeal to a wide audience. It is ideal for researchers in cognitive psychology, evolutionary psychology, and cognitive science, as well as in economics and artificial intelligence. It will also inspire anyone interested in simply making good decisions.

Algorithmic Decision Theory Aug 23 2020 This book constitutes the refereed proceedings of the Second International Conference on Algorithmic Decision Theory, ADT 2011, held in Piscataway, NJ, USA, in October 2011. The 24 revised full papers presented were carefully reviewed and selected from 50 submissions.

Judgment and Decision Making Nov 18 2022 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 major topics and approaches used in the field. Put in one place, with integrating commentary, it shows the common elements in a research program that represents the scope of the field, while offering depth in each. Together, they provide a vision for what has become a burgeoning field.

The Perfect Swarm Sep 04 2021 The IgNobel Prize-winner and author of Rock, Paper, Scissors applies science-based solutions to

seemingly complex problems in life.

Rational Choice in an Uncertain World Aug 27 2023 "The authors are highly respected as leading figures in the field of judgment and decision making. There are many existing books on topics related to judgment and decision making, but this book makes a unique contribution to this field because of its systematic and scholarly approach, and its breadth of coverage." —Robert Goldstone, Indiana University "Reid Hastie and Robyn Dawes are two of the most eminent researchers in the field. I know these authors to be excellent writers and I have no doubt that their writing style will be suitable for my students." —William Goldstein, University of Chicago In the new edition of this award-winning text, renowned authors Reid Hastie and Robyn Dawes compare and contrast the basic principles of rationality with actual behavior in making decisions. This book explores theories and research findings from the field of judgment and decision making in a non-technical manner, using anecdotes as a teaching device. Intended as an introductory textbook for advanced undergraduate and graduate students, the material not only is of scholarly interest but is practical as well. New to This Edition Chapter introductions, conclusions, and cross-references between chapters make the text more student friendly An abundance of examples from areas such as finance, medicine, law, and engineering anchor concepts to the real world Increased consideration of descriptive, psychological models of decision making augment the original emphasis on normative, rational, "Expected Utility Theory" models, bring the book up to date Balance among the three major approaches to judgment and decision making: cognitive psychological analyses of mental processes and heuristics, descriptive algebraic models of judgment and decision processes, and rational models of decision making

The Handbook of Rational Choice Social Research Dec 19 2022 The Handbook of Rational Choice Social Research offers the first comprehensive overview of how the rational choice paradigm can inform empirical research within the social sciences. This landmark collection highlights successful empirical applications across a broad array of disciplines, including sociology, political science, economics, history, and psychology. Taking on issues ranging from financial markets and terrorism to immigration, race relations, and emotions, and a huge variety of other phenomena, rational choice proves a useful tool for theory-driven social research. Each chapter uses a rational choice framework to elaborate on testable hypotheses and then apply this to empirical research, including experimental research, survey studies, ethnographies, and historical investigations. Useful to students and scholars across the social sciences, this handbook will reinvigorate discussions about the utility and versatility of the rational choice approach, its key assumptions, and tools.

Judgment and Decision Making Jun 20 2020 This is a revision of Arkes and Hammond's 1986

collection of papers on judgment and decision making. Updated and extended, the focus of this volume is interdisciplinary and applied (in contrast to the companion collection, Goldstein and Hogarth's Research in Judgment and Decision Making, 1997). The papers are selected from scientific literature, but chosen specifically to appeal to the scholar, student and layperson alike.

Wiser Apr 23 2023 Two experts in business and psychology describe the detrimental effect that groupthink has on decision-making and explain how to combine ideas from management and social sciences to help improve problem-solving through non-deliberative decision-making. 20,000 first printing.

Rational Choice in an Uncertain World Sep 28 2023 This text provides a practical introduction to basic theories and research in the field of judgement and decision making in a non-technical manner.

Rum Luck Nov 25 2020 Ben Cooper was supposed to be on his Pacific honeymoon. Not waking up in a Costa Rican prison cell with no memory of the night before. Then again, Ben never thought he would catch his fiancée with some clown - literally. Or that his friend Miguel would drag him to the surf paradise of Tamarindo before Aunt Mildred could ask why they cancelled the open bar reception. But surely his friend and lawyer Victoria didn't need to fly down from Toronto overnight. After all, the police would let him go once he sobered up and paid his fine. Right? Except for the little matter of a murder. And Ben's buying a beachside bar from the victim, hours before the man's death. With foreclosure looming and death threats piling up on the rum-soaked bar, they must turn to the wild idea that got them into this mess - building a business around those who've always wanted to run their own bar on a beach somewhere, even for just a week. But to survive, they'll need every skill at their disposal - including those they'd rather forget they have.

Rational Choice in an Uncertain World Oct 29 2023 In the Second Edition of Rational Choice in an Uncertain World the authors compare the basic principles of rationality with actual behaviour in making decisions. They describe theories and research findings from the field of judgment and decision making in a non-technical manner, using anecdotes as a teaching device. Intended as an introductory textbook for advanced undergraduate and graduate students, the material not only is of scholarly interest but is practical as well. The Second Edition includes: - more coverage on the role of emotions, happiness, and general well-being in decisions - a summary of the new research on the neuroscience of decision processes - more discussion of the adaptive value of (non-rational heuristics) - expansion of the graphics for decision trees, probability trees, and Venn diagrams.

Decision Making in Action Apr 30 2021 This book describes the new perspective of naturalistic decision making. The point of departure is how people make decisions in

complex, time-pressured, ambiguous, and changing environments. The purpose of this book is to present and elaborate on past models developed to explain this type of decision making. The central philosophy of the book is that classical decision theory has been unproductive since it is so heavily grounded in economics and mathematics. The contributors believe there is little to be learned from laboratory studies about how people actually handle difficult and interesting tasks; therefore, the book presents a critique of classical decision theory. The models of naturalistic decision making described by the contributors were derived to explain the behavior of firefighters, business people, jurors, nuclear power plant operators, and command-and-control officers. The models are unique in that they address the way people use experience to frame situations and adopt courses of action. The models explain the strengths of skilled decision makers. Naturalistic decision research requires the examination of field settings, and a section of the book covers methods for conducting meaningful research outside the laboratory. In addition, since his approach has applied value, the book covers issues of training and decision support systems.

Straight Choices Sep 23 2020 Should I have this medical treatment or that one? Is this computer a better buy than that one? Should I invest in shares or keep my money under the bed? We all face a perplexing array of decisions every day. Thoroughly revised and updated throughout, the new edition of *Straight Choices* provides an integrative account of the psychology of decision-making, and shows how psychological research can help us understand our uncertain world. *Straight Choices* emphasises the relationship between learning and decision-making, arguing that the best way to understand how and why decisions are made is in the context of the learning and knowledge acquisition which precedes them, and the feedback which follows. The mechanisms of learning and the structure of environments in which decisions are made are carefully examined to explore their impact on our choices. The authors then consider whether we are all constrained to fall prey to cognitive biases, or whether, with sufficient exposure, we can find optimal decision strategies and improve our decision making. Featuring three completely new chapters, this edition also contains student-friendly overviews and recommended readings in each chapter. It will be of interest to students and researchers in cognitive psychology, behavioral economics, and the decision sciences, as well as anyone interested in the nature of decision making.

Strategic Management Oct 17 2022 Leadership, adaptability, value creation. These are the skills necessary for tomorrow's managers. This book is designed to help students think critically and understand fully how to strategically manage their future firms. .

Decision Management Dec 07 2021 Why do the people in some companies continually dazzle us with their brilliant decisions while those in others make one blunder after another? Do they understand their businesses better? Are they just plain smarter? Or is it all a matter of luck? The answer, says J. Frank Yates, is none of the above. The real key, rarely recognized, is how the leaders manage the company's decision

processes—the leaders' decision management practices. Drawing on his thirty years of research and experience as well as scholarship from psychology, economics, statistics, strategy, medicine, and other fields to explain the fundamental nature of business decision problems, Yates highlights the ten cardinal decision issues crucial to managing the decision-making process—and ultimately better company decisions. He covers problems ranging from recognizing whether a decision is actually called for to assuring that a preferred course of action will be implemented. He shows how solid decisions result when managers ensure that deciders resolve every cardinal issue effectively for every decision problem facing the company. He also reveals how, conversely, chronically poor decisions are traceable to managers allowing—or even creating—conditions that encourage deciders to fall short in how they address at least one of those critical issues.

Rationality and the Reflective Mind Jan 08 2022 "In this book, Keith Stanovich attempts to resolve the Great Rationality Debate in cognitive science—the debate about how much irrationality to ascribe to human cognition. Stanovich shows how the insights of dual-process theory and evolutionary psychology can be combined to explain why humans are sometimes irrational even though they possess cognitive machinery of remarkable adaptiveness. Using a unique individual differences approach, Stanovich shows that to fully characterize differences in rational thinking, the traditional System 2 of dual-process theory must be partitioned into the reflective mind and the algorithmic mind. He posits that we need to supersede dual-process theories with tripartite models of cognition. The key operations of the algorithmic mind and the reflective mind that support human rationality are discussed in the book. The key function of the algorithmic mind is to sustain the processing of decoupled secondary representations in cognitive simulation. The key function of the reflective mind, in contrast, is to detect the need to interrupt autonomous processing and to begin simulation activities. Stanovich uses the algorithmic/reflective distinction to develop a taxonomy of cognitive errors that are made on tasks in the heuristics and biases literature. He presents empirical data to show that the tendency to make these thinking errors is only modestly related to intelligence. Using the new tripartite model of mind, Stanovich shows how rationality is a more encompassing construct than intelligence—when both are properly defined—and that IQ tests fail to assess individual differences in rational thought. Stanovich discusses the types of thinking processes that would be measured in an assessment of rational thinking"—Provided by publisher.

The New Rational Manager Mar 22 2023 **Decision Behaviour, Analysis and Support** Mar 10 2022 A multi-disciplinary exploration of how we can help decision makers to deliberate and make better decisions.

Handbook of Response to Intervention Dec 27 2020 The Second Edition of this essential handbook provides a comprehensive, updated overview of the science that informs best practices for the implementation of response to intervention (RTI) processes within Multi-

Tiered Systems of Support (MTSS) to facilitate the academic success of all students. The volume includes insights from leading scholars and scientist-practitioners to provide a highly usable guide to the essentials of RTI assessment and identification as well as research-based interventions for improving students' reading, writing, oral, and math skills. New and revised chapters explore crucial issues, define key concepts, identify topics warranting further study, and address real-world questions regarding implementation. Key topics include: Scientific foundations of RTI Psychometric measurement within RTI RTI and social behavior skills The role of consultation in RTI Monitoring response to supplemental services Using technology to facilitate RTI RTI and transition planning Lessons learned from RTI programs around the country The Second Edition of the Handbook of Response to Intervention is an essential resource for researchers, graduate students, and professionals/scientist-practitioners in child and school psychology, special and general education, social work and counseling, and educational policy and politics.

Numerical Reasoning in Judgments and Decision Making about Health Jul 02 2021 This book provides information about how the numeric ability of individuals can impact the decisions they make about healthcare.

Handbook of Behavioural Economics and Smart Decision-Making Feb 09 2022 This Handbook is a unique and original contribution of over thirty chapters on behavioural economics, examining and addressing an important stream of research where the starting assumption is that decision-makers are for the most part relatively smart or rational. This particular approach is in contrast to a theme running through much contemporary work where individuals' behaviour is deemed irrational, biased, and error-prone, often due to how people are hardwired. In the smart people approach, where errors or biases occur and when social dilemmas arise, more often than not, improving the decision-making environment can repair these problems without hijacking or manipulating the preferences of decision-makers. This book covers a wide-range of themes from micro to macro, including various sub-disciplines within economics such as economic psychology, heuristics, fast and slow-thinking, neuroeconomics, experiments, the capabilities approach, institutional economics, methodology, nudging, ethics, and public policy.

Thinking May 12 2022 Unlock your mind. From the bestselling authors of *Thinking, Fast and Slow*; *The Black Swan*; and *Stumbling on Happiness* comes a cutting-edge exploration of the mysteries of rational thought, decision-making, intuition, morality, willpower, problem-solving, prediction, forecasting, unconscious behavior, and beyond. Edited by John Brockman, publisher of Edge.org ("The world's smartest website"—The Guardian), *Thinking* presents original ideas by today's leading psychologists, neuroscientists, and philosophers who are radically expanding our understanding of human thought. Contributors include: Daniel Kahneman on the power (and pitfalls) of human intuition and "unconscious" thinking Daniel Gilbert on desire, prediction, and why getting what we want doesn't always

make us happy Nassim Nicholas Taleb on the limitations of statistics in guiding decision-making Vilayanur Ramachandran on the scientific underpinnings of human nature Simon Baron-Cohen on the startling effects of testosterone on the brain Daniel C. Dennett on decoding the architecture of the "normal" human mind Sarah-Jayne Blakemore on mental disorders and the crucial developmental phase of adolescence Jonathan Haidt, Sam Harris, and Roy Baumeister on the science of morality, ethics, and the emerging synthesis of evolutionary and biological thinking Gerd Gigerenzer on rationality and what informs our choices

Behavioral Law and Economics Nov 06 2021

Economic analysis of law: an overview -- Behavioral studies -- An overview of behavioral law and economics -- Normative implications -- Behavioral insights and basic features of the law -- Property law -- Contract law -- Consumer contracts -- Tort law -- Commercial law -- Administrative, constitutional, and international law -- Criminal law and enforcement -- Tax law and redistribution -- Litigants' behavior -- Judicial decision-making -- Evidence law

The Cambridge Handbook of Thinking and Reasoning Jan 28 2021 The Cambridge Handbook of Thinking and Reasoning is the first comprehensive and authoritative handbook covering all the core topics of the field of thinking and reasoning. Written by the foremost experts from cognitive psychology, cognitive science, and cognitive neuroscience, individual chapters summarize basic concepts and findings for a major topic, sketch its history, and give a sense of the directions in which research is currently heading. The volume also includes work related to developmental, social and clinical psychology, philosophy, economics, artificial intelligence, linguistics, education, law, and medicine. Scholars and students in all these fields and others will find this to be a valuable collection.

Heuristics and the Law Feb 21 2023 Experts in law, psychology, and economics explore the power of "fast and frugal" heuristics in the creation and implementation of law In recent decades, the economists' concept of rational choice has dominated legal reasoning. And yet, in practical terms, neither the lawbreakers the law addresses nor officers of the law behave as the hyperrational beings postulated by rational choice. Critics of rational choice and believers in "fast and frugal heuristics" propose another approach: using certain formulations or general principles (heuristics) to help navigate in an environment that is not a well-ordered setting with an occasional disturbance, as described in the language of rational choice, but instead is fundamentally uncertain or characterized by an unmanageable degree of complexity. This is the intuition behind behavioral law and economics. In *Heuristics and the Law*, experts in law, psychology, and economics explore the conceptual and practical power of the heuristics approach in law. They discuss legal theory; modeling and predicting the problems the law purports to solve; the process of making law, in the legislature or in the courtroom; the application of existing law in the courts, particularly regarding the law of evidence; and implementation of the law and the impact of law on behavior. Contributors Ronald J. Allen, Hal R. Arkes, Peter Ayton,

Susanne Baer, Martin Beckenkamp, Robert Cooter, Leda Cosmides, Mandeep K. Dhami, Robert C. Ellickson, Christoph Engel, Richard A. Epstein, Wolfgang Fikentscher, Axel Flessner, Robert H. Frank, Bruno S. Frey, Gerd Gigerenzer, Paul W. Glimcher, Daniel G. Goldstein, Chris Guthrie, Jonathan Haidt, Reid Hastie, Ralph Hertwig, Eric J. Johnson, Jonathan J. Koehler, Russell Korobkin, Stephanie Kurzenhäuser, Douglas A. Kysar, Donald C. Langevoort, Richard Lempert, Stefan Magen, Callia Piperides, Jeffrey J. Rachlinski, Clara Sattler de Sousa e Brito, Joachim Schulz, Victoria A. Shaffer, Indra Spiecker genannt Döhmann, John Tooby, Gerhard Wagner, Elke U. Weber, Bernd Wittenbrink

Blackwell Handbook of Judgment and Decision Making Aug 03 2021

The Blackwell Handbook of Judgment and Decision Making is a state-of-the-art overview of current topics and research in the study of how people make evaluations, draw inferences, and make decisions under conditions of uncertainty and conflict. Contains contributions by experts from various disciplines that reflect current trends and controversies on judgment and decision making. Provides a glimpse at the many approaches that have been taken in the study of judgment and decision making and portrays the major findings in the field. Presents examinations of the broader roles of social, emotional, and cultural influences on decision making. Explores applications of judgment and decision making research to important problems in a variety of professional contexts, including finance, accounting, medicine, public policy, and the law.

Intelligence Analysis Mar 30 2021 The U.S. intelligence community (IC) is a complex human enterprise whose success depends on how well the people in it perform their work. Although often aided by sophisticated technologies, these people ultimately rely on their own intellect to identify, synthesize, and communicate the information on which the nation's security depends. The IC's success depends on having trained, motivated, and thoughtful people working within organizations able to understand, value, and coordinate their capabilities. *Intelligence Analysis* provides up-to-date scientific guidance for the intelligence community (IC) so that it might improve individual and group judgments, communication between analysts, and analytic processes. The papers in this volume provide the detailed evidentiary base for the National Research Council's report, *Intelligence Analysis for Tomorrow: Advances from the Behavioral and Social Sciences*. The opening chapter focuses on the structure, missions, operations, and characteristics of the IC while the following 12 papers provide in-depth reviews of key topics in three areas: analytic methods, analysts, and organizations. Informed by the IC's unique missions and constraints, each paper documents the latest advancements of the relevant science and is a stand-alone resource for the IC's leadership and workforce. The collection allows readers to focus on one area of interest (analytic methods, analysts, or organizations) or even one particular aspect of a category. As a collection, the volume provides a broad perspective of the issues involved in making difficult decisions, which is at the heart of intelligence analysis.

The Oxford Handbook of Thinking and Reasoning Sep 16 2022 The Oxford Handbook of Thinking and Reasoning brings together the contributions of many of the leading researchers in thinking and reasoning to create the most comprehensive overview of research on thinking and reasoning that has ever been available.

Judgment and Decision Making Jun 25 2023 *Judgment and Decision Making* is a refreshingly accessible text that explores the wide variety of ways people make judgments. An accessible examination of the wide variety of ways people make judgments Features up-to-date theoretical coverage, including perspectives from evolutionary psychology and neuroscience Covers dynamic decision making, everyday decision making, individual differences, group decision making, and the nature of mind and brain in relation to judgment and decision making Illustrates key concepts with boxed case studies and cartoons

When I'm 64 Jun 01 2021 By 2030 there will be about 70 million people in the United States who are older than 64. Approximately 26 percent of these will be racial and ethnic minorities. Overall, the older population will be more diverse and better educated than their earlier cohorts. The range of late-life outcomes is very dramatic with old age being a significantly different experience for financially secure and well-educated people than for poor and uneducated people. The early mission of behavioral science research focused on identifying problems of older adults, such as isolation, caregiving, and dementia. Today, the field of gerontology is more interdisciplinary. *When I'm 64* examines how individual and social behavior play a role in understanding diverse outcomes in old age. It also explores the implications of an aging workforce on the economy. The book recommends that the National Institute on Aging focus its research support in social, personality, and life-span psychology in four areas: motivation and behavioral change; socioemotional influences on decision-making; the influence of social engagement on cognition; and the effects of stereotypes on self and others. *When I'm 64* is a useful resource for policymakers, researchers and medical professionals.

The Psychology of Decision Making Oct 25 2020 *The Psychology of Decision Making* provides an overview of decision making as it relates to management, organizational behavior issues, and research. This engaging book examines the way individuals make decisions as well as how they form judgments privately and in the context of the organization. It also discusses the interplay of group and institutional dynamics and their effects upon the decisions made within and on the behalf of organizations.

Rationality for Mortals Oct 05 2021 Gerd Gigerenzer's influential work examines the rationality of individuals not from the perspective of logic or probability, but from the point of view of adaptation to the real world of human behavior and interaction with the environment. Seen from this perspective, human behavior is more rational than it might otherwise appear. This work is extremely influential and has spawned an entire research program. This volume (which follows on a previous collection, *Adaptive Thinking*, also

published by OUP) collects his most recent articles, looking at how people use "fast and frugal heuristics" to calculate probability and risk and make decisions. It includes a newly written, substantial introduction, and the articles have been revised and updated where appropriate. This volume should appeal, like the earlier volumes, to a broad mixture of cognitive psychologists, philosophers, economists, and others who study decision making.

The Bias That Divides Us Aug 15 2022 Why we don't live in a post-truth society but rather a myside society: what science tells us about the bias that poisons our politics. In *The Bias That Divides Us*, psychologist Keith Stanovich argues provocatively that we don't live in a post-truth society, as has been claimed, but rather a myside society. Our problem is not that we are unable to value and respect truth and facts, but that we are unable to agree on commonly accepted truth and facts. We believe that our side knows the truth. Post-truth? That describes the other side. The inevitable result is political polarization. Stanovich shows what science can tell us about myside bias: how common it is, how to avoid it, and what purposes it serves. Stanovich explains that although myside bias is ubiquitous, it is an outlier among cognitive biases. It is unpredictable. Intelligence does not inoculate against it, and myside bias in one domain is not a good indicator of bias shown in any other domain. Stanovich argues that because of its outlier status, myside bias creates a true blind spot among the cognitive elite--those who are high in intelligence, executive functioning, or other valued psychological dispositions. They may consider themselves unbiased and purely rational in their thinking, but in fact they are just as biased as everyone else. Stanovich investigates how this bias blind spot contributes to our current ideologically polarized politics, connecting it to another recent trend: the decline of trust in university research as a

disinterested arbiter.

Human Factors Methods for Design Jul 14 2022 An easy-to-use, in-depth manual, *Human Factors Methods for Design* supplies the how-tos for approaching and analyzing design problems and provides guidance for their solution. It draws together the basics of human behavior and physiology to provide a context for readers who are new to the field. The author brings in problem analysis, including test and evaluation methods and simple experimentation and recognizes the importance of cost-effectiveness. Finally, he emphasizes the need for good communication to get the new product understood and accepted. The author draws from his corporate experience as a research and development manager and his consulting practice in human factors and design.

Social Judgment and Decision Making Jul 26 2023 First Published in 2012. Routledge is an imprint of Taylor & Francis, an informa company.

Moral Minds Jan 20 2023 In his groundbreaking book, Marc Hauser puts forth a revolutionary new theory: that humans have evolved a universal moral instinct, unconsciously propelling us to deliver judgments of right and wrong independent of gender, education, and religion. Combining his cutting-edge research with the latest findings in cognitive psychology, linguistics, neuroscience, evolutionary biology, economics, and anthropology, Hauser explores the startling implications of his provocative theory vis-à-vis contemporary bioethics, religion, the law, and our everyday lives.

House of Cards Jun 13 2022 Robin Dawes spares no one in this powerful critique of modern psychotherapeutic practice. As Dawes points out, we have all been swayed by the "pop psych" view of the world--believing, for example, that self-esteem is an essential precursor to being a productive human being, that events in one's childhood affect one's fate as an adult, and that "you have to love yourself before you can love another."

Algorithms for Decision Making Apr 11 2022 A broad introduction to algorithms for decision making under uncertainty, introducing the underlying mathematical problem formulations and the algorithms for solving them. Automated decision-making systems or decision-support systems—used in applications that range from aircraft collision avoidance to breast cancer screening—must be designed to account for various sources of uncertainty while carefully balancing multiple objectives. This textbook provides a broad introduction to algorithms for decision making under uncertainty, covering the underlying mathematical problem formulations and the algorithms for solving them. The book first addresses the problem of reasoning about uncertainty and objectives in simple decisions at a single point in time, and then turns to sequential decision problems in stochastic environments where the outcomes of our actions are uncertain. It goes on to address model uncertainty, when we do not start with a known model and must learn how to act through interaction with the environment; state uncertainty, in which we do not know the current state of the environment due to imperfect perceptual information; and decision contexts involving multiple agents. The book focuses primarily on planning and reinforcement learning, although some of the techniques presented draw on elements of supervised learning and optimization. Algorithms are implemented in the Julia programming language. Figures, examples, and exercises convey the intuition behind the various approaches presented.

Rational Intuition Jul 22 2020 Rational Intuition explores the concept of intuition as it relates to rationality through mediums of history, philosophy, cognitive science, and psychology.

Emerging Perspectives on Judgment and Decision Research May 24 2023 Table of contents