Neuroscience Of Decision Making Journal

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Goal-Directed Decision Making Springer
The Neuroscience of Organizational Behavior establishes the scientific foundations of organizational neuroscience, a nascent discipline that explores the neural correlates of human behavior in organizations. The book draws from several disciplines including the organizational sciences, neuroeconomics, cognitive psychology, social cognitive neuroscience and neuroscience. The topics discussed include the neural foundations of organizational phenomena, such as decision-making, leadership, fairness, trust and cooperation, emotions, ethics and morality, unconscious bias and diversity in the workplace.
Neuroeconomics, Judgment, and Decision Making Routledge
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.
Neuroscience of Decision Making IGI Global
The fourth edition of the work that defines the field of cognitive neuroscience, offering completely new material.
The Psychology of Judgment and Decision Making MIT Press
What produces emotions? Why do we have emotions? How do we have emotions? Why do emotional states feel like something? What is the relation between emotion, and reward value, and

subjective feelings of pleasure? How is the value of a good represented in the brain? Will neuroeconomics replace classical microeconomics? How does the brain implement decision-making? Are gene-defined rewards and emotions in the interests of the genes, and does rational multistep planning enable us to go beyond selfish genes to long-term plans and social contracts in the interests of the individual? This book seeks explanations of emotion and decision-making by considering these questions. The topics covered include: The nature of emotion, and a theory of emotion The functions of emotion, including a Darwinian theory of the adaptive value of emotion, which helps to illuminate many aspects of brain design and behaviour The brain mechanisms of emotion Affective states and motivated behaviour: hunger and sexual behaviour The pharmacology of emotion, and brain mechanisms for action Neuroeconomics, and the foundation of economic value Decision-making Emotional feelings, and consciousness Neural networks involved in emotion The book will be valuable for those in the fields of neuroscience and neurology, psychology, psychiatry, and philosophy

The Mind Within the Brain Academic Press

In the last two decades there has been a flourishing research carried out jointly by economists, psychologists and neuroscientists. This meltdown of competences has lead towards original approaches to investigate the mental and cognitive mechanisms involved in the way the economic agent collects, processes and uses information to make choices. This research field involves a new kind of scientist, trained in different disciplines, familiar in managing experimental data, and with the mathematical foundations of decision making. The ultimate goal of this research is to open the black-box to understandthe behavioural and neural processes through which humans set preferences and translate these behaviours into optimal choices. This volume intends to bring forward new results and fresh insights into this matter.

Handbook of Reward and Decision Making Academic Press

This volume explores how and why people make judgments and decisions that have economic consequences, and what the implications are for human well-being. It provides an integrated review of the latest research from many different disciplines, including social, cognitive, and developmental psychology; neuroscience and neurobiology; and economics and business. The book has six areas of focus: historical foundations; cognitive consistency and inconsistency; heuristics and biases; neuroeconomics and neurobiology; developmental and individual differences; and improving decisions. Throughout, the contributors draw out implications from traditional behavioral research as well as evidence from neuroscience. In recent years, neuroscientific methods have matured, beyond being simply correlational and descriptive, into theoretical prediction and explanation, and this has opened up many new areas of discovery about economic behavior that are reviewed in the book. In the final part,

there are applications of the research to cognitive development, individual differences, and the improving of decisions. The book takes a broad perspective and is written in an accessible way so as to reach a wide audience of advanced students and researchers interested in behavioral economics and related areas. This includes neuroscientists, neuropsychologists, clinicians, psychologists (developmental, social, and cognitive), economists and other social scientists; legal scholars and criminologists; professionals in public health and medicine; educators; evidence-based practitioners; and policy-makers.

Neuroscience and the Economics of Decision Making Academic Press

Making important business decisions is usually a difficult and complicated task. In the modern economy where businesses have to solve increasingly complex decision-making problems, it is important to learn and use methods and techniques including the analysis of behavioral data to support decision-making in practice. This book presents various methods and solutions to problems in modern data acquisition techniques and practical aspects of decision making. In particular, it addresses such important issues as: business decision making, multi-criteria decision analysis (MCDA), multidimensional comparative analysis (MCA), decision games and data acquisition techniques for decision making (declarative techniques and cognitive neuroscience techniques). Important topics such as consumers' rational behavior, environmental management accounting, operational research methods, neuroscience including epigenetics, DEA analysis etc., as well as case studies related to decision making in management are also included.

Judgment and Decision Making Edward Elgar Publishing

This latest volume in the critically acclaimed and highly influential Attention and Performance series focuses on two of the fastest moving research areas in cognitive and affective neuroscience - decision making and emotional processing. Decision Making, Affect, and Learning investigates the psychological and neural systems underlying decision making, and the relationship with reward, affect, and learning. In addition, it considers neurodevelopmental and clinical aspects of these issues - for example the role of decision making and reward in drug addiction. It also

looks at the applied aspects of this knowledge to other disciplines, including the growing field of Neuroeconomics. After an introductory chapter from the Volume editors, the book is then arranged according to the following themes: Psychological Processes underlying decision-making. Neural systems of decision-making Neural systems of emotion, reward and learning Neurodevelopmental and clinical aspects Superbly written and edited, the book highlights the complex interplay between emotional and decision-making processes and their relationship with learning.

Judgment and Decision Making
American Psychological Association (APA)
Risky Decision Making in Psychological Disorders provides readers with a detailed examination of how risky decision making is affected by a wide array of individual psychological disorders. The book starts by providing important background information on the construct of risky decision making, the assessment of risky decision making, and the neuroscience behind such decision making. The Iowa Gambling Task, Balloon Analogue Risk Task, and other behavioral measures are covered, as are topics such as test reliability and the pros and cons of utilizing tasks that have strong practice effects. The book then moves into how risky decision making is affected by specific psychological disorders, such as addictive behaviors, anxiety disorders, mood disorders, schizophrenia, sleep disorders, eating disorders, and more.

Attention and Performance XXIII
Springer Nature
This book details the science behind decision-making in humans. Understanding how the human decision-making system works has enormous implications for understanding who we are, what we do, and why we make the choices we make. By bringing together the tremendous work that has been done by many scientists researching brains, decision-making, and machines over the last few decades, we can begin to get an understanding of ourselves. In this book, with humor, science, and poetry, David Redishdiscusses what is known about how brains work, what is known about how we make decisions, and what is known about how that decision-making machinery can break down under certain conditions to explain irrationality, addiction, and other strange behavior. The primary thesis of this book is that humans are animals that make decisions through computations engaged in by a decision-making machine. This book brings together the new technological breakthroughs that have appeared in the last few decades, the new theoretical progress that has been made in the neuroscience of decision-making in the last

decade, and new revelations concerning how decision-making systems fail in both human and non-human mammals, to create a unified theory of decision-making and its vulnerabilities.

Newnes

This introduction just aims to be a fast foreword to the special topic now turned into an e-book. The Editorial "Decision-Making Experiments under a Philosophical Analysis: Human Choice as a Challenge for Neuroscience" alongside with my opinion article "Neurophilosophical considerations on decision making: Pushing-up the frontiers without disregarding their foundations" play the real role of considering in more details the articles and the whole purpose of this e-book. What I must highlight in this foreword is that our intention with such a project was to deepen into the very foundations of our current paradigms in decision neuroscience and to philosophically moot its foundations and repercussions. Normal Science (a term coined by Philosopher Thomas Kuhn) works under a research consensus among a scientific community: A shared paradigm, consolidated methods, widespread convictions. Pragmatically, winning formulas must be kept, although, not at any cost. What differentiates a gifted and revolutionary scientist from a more bureaucratic colleague is the capacity and willingness of constantly reevaluating, depurating and refining his/her own paradigm. That is best strategy to avoid that a paradigm itself would gradually come under challenge. In my view, some achievements, in this sense, were brought about in our project. The e-book will be inspiring and informative for both neuroscientists that are concerned with the very foundations of their works and for philosophers that are not blind to empirical evidence. Kant once said: “Thoughts without content are empty, intuitions without concepts are blind”. Paraphrasing Kant we could say: Philosophy without science is empty, science without philosophy is blind.

The Cognitive Neurosciences

Emerald Group Publishing

Why do consumers make the purchases they do, and which ones make them truly happy? Why are consumers willing to spend huge sums of money to appear high status? This Handbook addresses these key questions and many more. It provides a comprehensive overview of consumer psychology, examining cutting-edge research at the individual, interpersonal, and societal levels. Leading scholars

summarize past and current findings, and consider future lines of inquiry to deepen our understanding of the psychology behind consumers' decision making, their interactions with other consumers, and the effects of societal factors on consumption. The Cambridge Handbook of Consumer Psychology will act as a valuable guide for faculty as well as graduate and undergraduate students in psychology, marketing, management, sociology, and anthropology.

National Academies Press

Decision Neuroscience addresses fundamental questions about how the brain makes perceptual, value-based, and more complex decisions in non-social and social contexts. This book presents compelling neuroimaging, electrophysiological, lesional, and neurocomputational models in combination with hormonal and genetic approaches, which have led to a clearer understanding of the neural mechanisms behind how the brain makes decisions. The five parts of the book address distinct but inter-related topics and are designed to serve both as classroom introductions to major subareas in decision neuroscience and as advanced syntheses of all that has been accomplished in the last decade. Part I is devoted to anatomical, neurophysiological, pharmacological, and optogenetics animal studies on reinforcement-guided decision making, such as the representation of instructions, expectations, and outcomes; the updating of action values; and the evaluation process guiding choices between prospective rewards. Part II covers the topic of the neural representations of motivation, perceptual decision making, and value-based decision making in humans, combining neurcomputational models and brain imaging studies. Part III focuses on the rapidly developing field of social decision neuroscience, integrating recent mechanistic understanding of social decisions in both non-human primates and humans. Part IV covers clinical aspects involving disorders of decision making that link together basic research areas including systems, cognitive, and clinical neuroscience; this part examines dysfunctions of decision making in neurological and psychiatric disorders, such as Parkinson’s disease, schizophrenia, behavioral addictions, and focal brain lesions. Part V focuses on the roles of various hormones (cortisol, oxytocin, ghrelin/leptine) and genes that underlie inter-individual differences observed with stress, food choices, and social decision-making processes. The volume is essential reading for anyone interested in decision making neuroscience. With contributions that are forward-looking assessments of the current and future issues faced by researchers, Decision Neuroscience is essential reading for anyone interested in decision-making neuroscience. Provides comprehensive coverage of approaches to studying individual and social decision neuroscience, including primate neurophysiology, brain imaging in healthy humans and in various disorders, and genetic and hormonal influences on decision making Covers multiple levels of analysis, from molecular mechanisms to neural-systems

dynamics and computational models of how we make choices Discusses clinical implications of process dysfunctions, including schizophrenia, Parkinson's disease, eating disorders, drug addiction, and pathological gambling Features chapters from top international researchers in the field and full-color presentation throughout with numerous illustrations to highlight key concepts

Neuroscience perspectives on Security: Technology, Detection, and Decision Making MIT Press

This book reviews the latest research from psychology, neuroscience, and behavioral economics evaluating how people make financial choices in real-life circumstances. The volume is divided into three sections investigating financial decision making at the level of the brain, the level of an individual decision maker, and the level of the society, concluding with a discussion of the implications for further research. Among the topics discussed: Neural and hormonal bases of financial decision making Personality, cognitive abilities, emotions, and financial decisions Aging and financial decision making Coping methods for making financial choices under uncertainty Stock market crashes and market bubbles Psychological perspectives on borrowing, paying taxes, gambling, and charitable giving Psychological Perspectives on Financial Decision Making is a useful reference for researchers both in and outside of psychology, including decision-making experts, consumer psychologists, and behavioral economists.

Decision Making And Problem Solving Frontiers Media SA

In the years since it first published, Neuroeconomics: Decision Making and the Brain has become the standard reference and textbook in the burgeoning field of neuroeconomics. The second edition, a nearly complete revision of this landmark book, will set a new standard. This new edition features five sections designed to serve as both classroom-friendly introductions to each of the major subareas in neuroeconomics, and as advanced synopses of all that has been accomplished in the last two decades in this rapidly expanding academic discipline. The first of these sections provides useful introductions to the disciplines of microeconomics, the psychology of judgment and decision, computational neuroscience, and anthropology for scholars and students seeking interdisciplinary breadth. The second section provides an overview of how human and animal preferences are represented in the mammalian nervous systems. Chapters on risk, time preferences, social preferences, emotion,

pharmacology, and common neural currencies—each written by leading experts—lay out the foundations of neuroeconomic thought. The third section contains both overview and in-depth chapters on the fundamentals of reinforcement learning, value learning, and value representation. The fourth section, “The Neural Mechanisms for Choice, integrates what is known about the decision-making architecture into state-of-the-art models of how we make choices. The final section embeds these mechanisms in a larger social context, showing how these mechanisms function during social decision-making in both humans and animals. The book provides a historically rich exposition in each of its chapters and emphasizes both the accomplishments and the controversies in the field. A clear explanatory style and a single expository voice characterize all chapters, making core issues in economics, psychology, and neuroscience accessible to scholars from all disciplines. The volume is essential reading for anyone interested in neuroeconomics in particular or decision making in general. Editors and contributing authors are among the acknowledged experts and founders in the field, making this the authoritative reference for neuroeconomics Suitable as an advanced undergraduate or graduate textbook as well as a thorough reference for active researchers Introductory chapters on economics, psychology, neuroscience, and anthropology provide students and scholars from any discipline with the keys to understanding this interdisciplinary field Detailed chapters on subjects that include reinforcement learning, risk, inter-temporal choice, drift-diffusion models, game theory, and prospect theory make this an invaluable reference Published in association with the Society for Neuroeconomics—www.neuroeconomics.org Full-color presentation throughout with numerous carefully selected illustrations to highlight key concepts

Neuroscience and the Economics of Decision Making Frontiers Media SA Behavioral decision research offers a distinctive approach to understanding and improving decision making. It combines theory and method from multiple disciples (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.

Decision-Making in Management The Neuroscience of Risky Decision Making

Most decisions in life are based on incomplete information and have uncertain consequences. To successfully cope with real-life situations, the nervous system has to estimate, represent and eventually resolve uncertainty at various levels. A common tradeoff in such decisions involves those between the magnitude of the expected rewards and the uncertainty of obtaining the rewards. For instance, a decision maker may choose to forgo the high expected rewards of investing in the stock market and settle instead for the lower expected reward and much less uncertainty of a savings account. Little is known about how different forms of uncertainty, such as risk or ambiguity, are processed and learned about and how they are integrated with expected rewards and individual preferences throughout the decision making process. With this Research Topic we aim to provide a deeper and more detailed understanding of the processes behind decision making under uncertainty.

Aging and Decision Making MIT Press

This volume explores how and why people make judgments and decisions that have economic consequences, and what the implications are for human well-being. It provides an integrated review of the latest research from many different disciplines, including social, cognitive, and developmental psychology; neuroscience and neurobiology; and economics and business. The book has six areas of focus: historical foundations; cognitive consistency and inconsistency; heuristics and biases; neuroeconomics and neurobiology; developmental and individual differences; and improving decisions. Throughout, the contributors draw out implications from traditional behavioral research as well as evidence from neuroscience. In recent years, neuroscientific methods have matured, beyond being simply correlational and descriptive, into theoretical prediction and explanation, and this has opened up many new areas of discovery about economic behavior that are reviewed in the book. In the final part, there are applications of the research to cognitive development, individual differences, and the improving of decisions. The book takes a broad perspective and is written in an accessible way so as to reach a wide audience of advanced students and researchers interested in behavioral economics and related areas. This includes neuroscientists, neuropsychologists, clinicians, psychologists (developmental, social, and cognitive), economists and other social scientists; legal scholars and criminologists; professionals in public health and medicine; educators; evidence-based practitioners; and policy-makers.

Decisions, Uncertainty, and the Brain John Wiley & Sons

In Decision Making and Problem Solving: A Practical Guide for Applied Research, the author utilizes traditional approaches, tools, and techniques adopted to

solve current day-to-day, real-life problems. The book offers guidance in identifying and applying accurate methods for designing a strategy as well as implementing these strategies in the real world. The book includes realistic case studies and practical approaches that should help readers understand how the decision making occurs and can be applied to problem solving under deep uncertainty.

Neuroeconomics SAGE Publications, Incorporated

Two recent innovations, the emergence of formal cognitive models and the addition of cognitive neuroscience data to the traditional behavioral data, have resulted in the birth of a new, interdisciplinary field of study: model-based cognitive neuroscience. Despite the increasing scientific interest in model-based cognitive neuroscience, few active researchers and even fewer students have a good knowledge of the two constituent disciplines. The main goal of this edited collection is to promote the integration of cognitive modeling and cognitive neuroscience. Experts in the field will provide tutorial-style chapters that explain particular techniques and highlight their usefulness through concrete examples and numerous case studies. The book will also include a thorough list of references pointing the reader towards additional literature and online resources.