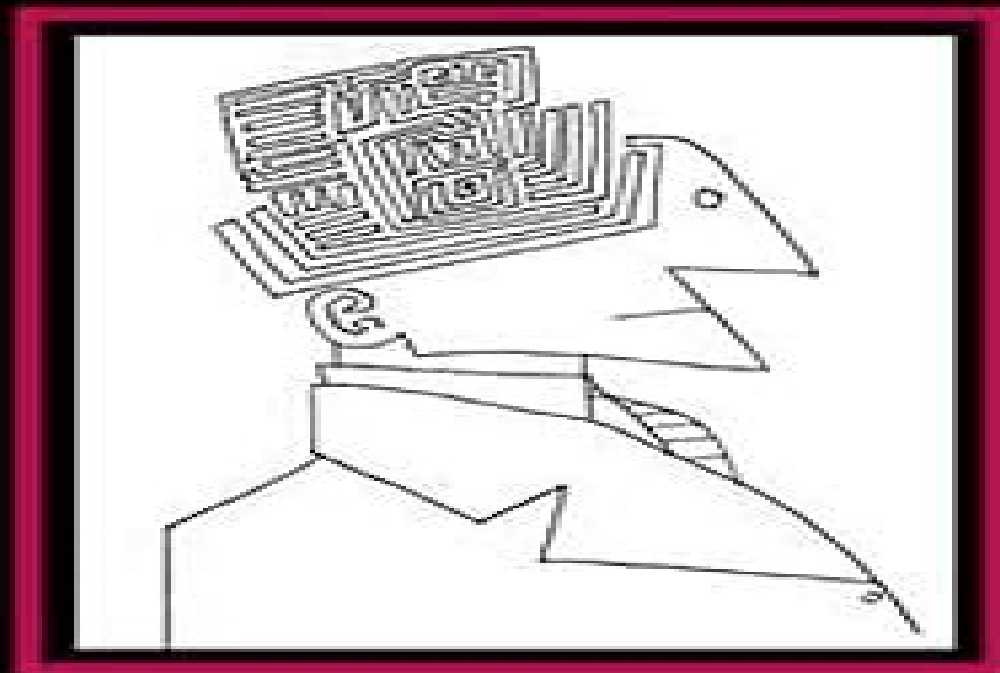


Decisions, Uncertainty, and the Brain

The Science of Neuroeconomics



Paul W. Glimcher

Decisions Uncertainty The Brain The Sc

**David R. Mandel, Gorka
Navarrete, Nathan
Dieckmann, Jonathan D. Nelson**



Decisions Uncertainty The Brain The Sc:

Decision Making under Uncertainty Kerstin Preuschoff, Peter N. C. Mohr, Ming Hsu, 2015-06-16 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 **Handbook of Reward and**

Decision Making Jean-Claude Dreher, Léon Tremblay, 2009-06-04 This book addresses a fundamental question about the nature of behavior how does the brain process reward and makes decisions when facing multiple options The book presents the most recent and compelling lesion neuroimaging electrophysiological and computational studies in combination with hormonal and genetic studies which have led to a clearer understanding of neural mechanisms behind reward and decision making The neural bases of reward and decision making processes are of great interest to scientists because of the fundamental role of reward in a number of behavioral processes such as motivation learning and cognition and because of their theoretical and clinical implications for understanding dysfunctions of the dopaminergic system in several neurological and psychiatric disorders schizophrenia Parkinson's disease drug addiction pathological gambling Comprehensive coverage of approaches to studying reward and decision making including primate neurophysiology and brain imaging studies in healthy humans and in various disorders genetic and hormonal influences on the reward system and computational models Covers clinical implications of process dysfunction e.g. schizophrenia Parkinson's disease eating disorders drug addiction pathological gambling Uses multiple levels of analysis from molecular mechanisms to neural systems dynamics and computational models This is a very interesting and authoritative handbook by some of the most outstanding investigators in the field of reward and decision making Professor Edmund T Rolls Oxford Center for Computational Neuroscience UK

Well-Grounded Kelly Lambert, 2018-09-25 A neuroscientist reveals unique aspects of decision making and the best strategies for protecting and enhancing the brain's ability to navigate life's uncertainties Contingency calculations the ability to predict the outcomes of decisions and actions are critical for survival and success Our amazing brains continually process past and current experiences to enable us to make the most adaptive choices But when the brain's information systems are compromised by such varying conditions as drug addiction poverty mental illness or even privilege we can lose the ability to arrive at informed decisions In this engaging book behavioral neuroscientist Kelly Lambert explores a variety of the modern

factors that can lead to warped neural processing or distorted realities she terms brain bubbles Individuals who define success in terms of creature comforts and immediate gratification for instance may interact less with the physical and social world and thereby dull their ability to imagine varied contingency scenarios The author underscores how continuous meaningful and well grounded experiences are required if we are to make the best decisions throughout our lives

Cognitive and affective control Gilles Pourtois, Wim Notebaert, Tom Verguts, Traditionally cognition and emotion are seen as separate domains that are independent at best and in competition at worst The French scientist and philosopher Blaise Pascal 1623 1662 famously said *Le coeur a ses raisons que la raison ne connait point* The heart has its reasons that reason does not know Over the last century however psychologists and neuroscientists have increasingly appreciated their very strong reciprocal connections and interactions Initially this was demonstrated in cognitive functions such as attention learning and memory and decision making For instance an emotional stimulus captures attention e g Anderson Verguts Notebaert 2009 From this perspective cognitive control is not a cool encapsulated executive function but instead involves rapidly calculating the value of situational contextual and action cues Rushworth Behrens 2008 for the purpose of adapting the cognitive system toward future optimal performance A wide array of research has shed light on cognitive control and its interactions with affect or motivation Behaviorally important phenomena include how people respond to difficult stimuli e g incongruent stimuli task switches negative feedback or errors and how this influences subsequent task processing Neurally an important target structure has been the anterior cingulate cortex ACC and its connections to traditional emotional e g amygdala and cognitive areas e g pre motor cortex dorsolateral prefrontal cortex ACC seems to play a predominant role in integrating distant effects from remote cognitive and emotion systems in order to guide and optimize behavior The current special issue focuses on the bi directional link between emotion and cognitive control We invite studies that investigate the influence from emotion on cognitive control or vice versa the influence of cognitive control on emotion Contributions can be of different types We welcome empirical contributions behavioral or neuroscientific but also computational modeling theory or review papers By bringing together researchers from the traditionally separated domains we hope to further stimulate the crosstalk between emotion and cognitive control and thus to deepen our understanding of both

Opportunities in Neuroscience for Future Army Applications National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Opportunities in Neuroscience for Future Army Applications, 2009-06-16

Advances and major investments in the field of neuroscience can enhance traditional behavioral science approaches to training learning and other applications of value to the Army Neural behavioral indicators offer new ways to evaluate how well an individual trainee has assimilated mission critical knowledge and skills and can also be used to provide feedback on the readiness of soldiers for combat Current methods for matching individual capabilities with the requirements for performing high value Army assignments do not include neuropsychological psychophysiological neurochemical or

neurogenetic components simple neuropsychological testing could greatly improve training success rates for these assignments Opportunities in Neuroscience for Future Army Applications makes 17 recommendations that focus on utilizing current scientific research and development initiatives to improve performance and efficiency collaborating with pharmaceutical companies to employ neuropharmaceuticals for general sustainment or enhancement of soldier performance and improving cognitive and behavioral performance using interdisciplinary approaches and technological investments An essential guide for the Army this book will also be of interest to other branches of military national security and intelligence agencies academic and commercial researchers pharmaceutical companies and others interested in applying the rapid advances in neuroscience to the performance of individual and group tasks

Judgment and Decision Making Under Uncertainty: Descriptive, Normative, and Prescriptive Perspectives David R. Mandel, Gorka Navarrete, Nathan Dieckmann, Jonathan D. Nelson, 2019-09-26

Neuroscience and the Economics of Decision Making Alessandro Innocenti, Angela Sirigu, 2013-06-19 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 understand the 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

Honeybee Democracy Thomas D. Seeley, 2010-09-20 How honeybees make collective decisions and what we can learn from this amazing democratic process Honeybees make decisions collectively and democratically Every year faced with the life or death problem of choosing and traveling to a new home honeybees stake everything on a process that includes collective fact finding vigorous debate and consensus building In fact as world renowned animal behaviorist Thomas Seeley reveals these incredible insects have much to teach us when it comes to collective wisdom and effective decision making A remarkable and richly illustrated account of scientific discovery Honeybee Democracy brings together for the first time decades of Seeley's pioneering research to tell the amazing story of house hunting and democratic debate among the honeybees In the late spring and early summer as a bee colony becomes overcrowded a third of the hive stays behind and rears a new queen while a swarm of thousands departs with the old queen to produce a daughter colony Seeley describes how these bees evaluate potential nest sites advertise their discoveries to one another engage in open deliberation choose a final site and navigate together as a swirling cloud of bees to their new home Seeley investigates how evolution has honed the decision making methods of honeybees over millions of years and he considers similarities between the ways that bee swarms and primate brains process information He concludes that what works well for bees can also work well for people

any decision making group should consist of individuals with shared interests and mutual respect a leader's influence should be minimized debate should be relied upon diverse solutions should be sought and the majority should be counted on for a dependable resolution An impressive exploration of animal behavior Honeybee Democracy shows that decision making groups whether honeybee or human can be smarter than even the smartest individuals in them *Paradigms in Theory Construction* Luciano L'Abate, 2011-12-01 Within the field of psychology there is a proliferation of paradigms theories models and dimensions without an underlying conceptual framework or theory This conclusion has been reached by representatives of many different psychological specialties In response to this inconsistency this book presents a hierarchical framework about important theoretical issues that are present in psychological thinking These issues concern definitions of three major theoretical concepts in theory and practice a paradigms b theories and c models It focuses on defining comparing and contrasting these three conceptual terms This framework clarifies differences among paradigms theories and models terms which have become increasingly confused in the psychological literature Paradigms are usually confused with theories or with models while theories are confused with models Examples of misuses of these terms suggest the need for a hierarchical structure that views paradigms as conceptual constructions overseeing a variety of psychological theories and verifiable models Decision-Making Experiments under a Philosophical Analysis: Human Choice as a Challenge for Neuroscience Gabriel José Corrêa Mograbi, Carlos Eduardo Batista de Sousa, 2015-10-15 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 **Effort-based decision-making and cognitive fatigue** Michel Audiffren, Benjamin Pageaux, Rémi L. Capa, Nicolas Silvestrini, James

Steele, Sabrina Ravel, 2023-07-12 Interval Timing and Time-Based Decision Making Warren H. Meck, Valérie Doyère, Agnes Gruart, 2012-05-01 The perception of time is crucial for everyday activities from the sleep wake cycle to playing and appreciating music verbal communication to the determination of the value of a particular behavior With regard to the last point making decisions is heavily influenced by the duration of the various options the duration of the expected delays for receiving the options and the time constraints for making a choice Recent advances suggest that the brain represents time in a distributed manner and reflects time as a result of temporal changes in network states and or by the coincidence detection of the phase of different neural populations Moreover intrinsic oscillatory properties of neural circuits could determine timed motor responses This Research Topic partly an emergence of a Satellite EBBS meeting sponsored by the COST Action TIMELY will discuss how time in the physical world is reconstructed distorted and modified in brain networks by emotion learning and neuropathology This Research Topic on Timing contains up to date reviews regarding the relationship between time and decision making with respect to the underlying psychological and physiological mechanisms responsible for anticipation and evaluation processes **Neuroeconomics, Judgment, and Decision Making** Evan A. Wilhelms, Valerie F. Reyna, 2014-07-11 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 **Soft Computing Principles and Integration for Real-Time Service-Oriented Computing** Punit Gupta, Dinesh Kumar Saini, Kashif Zia, 2024-03-22 In recent years soft computing techniques have emerged as a successful tool to understand and analyze the collective behavior of service oriented computing software Algorithms and mechanisms of self organization of complex natural systems have been used to solve problems particularly in complex systems which are adaptive ever evolving and distributed in nature across the globe What fits more perfectly into this

scenario other than the rapidly developing era of Fog IoT and Edge computing environment Service oriented computing can be enhanced with soft computing techniques embedded inside the Cloud Fog and IoT systems Soft Computing Principles and Integration for Real Time Service Oriented Computing explores soft computing techniques that have wide application in interdisciplinary areas These soft computing techniques provide an optimal solution to the optimization problem using single or multiple objectives The book focuses on basic design principles and analysis of soft computing techniques It discusses how soft computing techniques can be used to improve quality of service in serviceoriented architectures The book also covers applications and integration of soft computing techniques with a service oriented computing paradigm Highlights of the book include A general introduction to soft computing An extensive literature study of soft computing techniques and emerging trends Soft computing techniques based on the principles of artificial intelligence fuzzy logic and neural networks The implementation of SOC with a focus on service composition and orchestration quality of service QoS considerations security and privacy concerns governance challenges and the integration of legacy systems The applications of soft computing in adaptive service composition intelligent service recommendation fault detection and diagnosis SLA management and security Such principles underlying SOC as loose coupling reusability interoperability and abstraction An IoT based framework for real time data collection and analysis using soft computing

Mentalizing in Psychotherapy Carla Sharp,Dickon Bevington,2022-08-05 How can therapists help clients reflect more deeply on their own and other people s thoughts and emotions How can the therapeutic relationship be leveraged effectively to create change This concise book guides therapists of any orientation to incorporate innovative mentalization based strategies into assessment and intervention Complex ideas are clearly explained and illustrated with extensive session transcripts and vignettes Ways to help clients struggling with dysregulated emotions and behavior are highlighted Compelling topics include the role of mentalization difficulties in personality disorders special concerns in working with adolescents and how clinicians can improve their own mentalizing capacities

Emotions, Advertising and Consumer Choice Flemming Hansen,Sverre Riis Christensen,2007 Emotions Advertising and Consumer Choice focuses on recent neurological and psychological insights originating from brain scanning or neurological experiments on basic emotional processes in the brain and their role in controlling human behaviour These insights are translated by the authors to cover the behaviour of ordinary individuals in everyday life The book looks at these developments in the light of traditional cognitive theories of consumer choice and it discusses the implications for advertising and other communication testing Jacket

Advanced Introduction to Consumer Behavior Analysis Gordon Foxall,2017-05-26 This concise introduction presents a rigorous analysis of consumer choice from the perspective of consumer behavior analysis Gordon Foxall provides a deeper understanding of what consumers actually buy and the nature of the utility that shapes and maintains patterns of consumption

Information Foraging Theory Peter L. T. Pirolli,2009-05-16 Although much of the hubris and hyperbole surrounding the 1990 s Internet has softened to a reasonable

level the inexorable momentum of information growth continues unabated This wealth of information provides resources for adapting to the problems posed by our increasingly complex world but the simple availability of more information does not guarantee its successful transformation into valuable knowledge that shapes guides and improves our activity When faced with something like the analysis of sense making behavior on the web traditional research models tell us a lot about learning and performance with browser operations but very little about how people will actively navigate and search through information structures what information they will choose to consume and what conceptual models they will induce about the landscape of cyberspace Thus it is fortunate that a new field of research Adaptive Information Interaction AII is becoming possible AII centers on the problems of understanding and improving human information interaction It is about how people will best shape themselves to their information environments and how information environments can best be shaped to people Its roots lie in human computer interaction HCI information retrieval and the behavioral and social sciences This book is about Information Foraging Theory IFT a new theory in Adaptive Information Interaction that is one example of a recent flourish of theories in adaptationist psychology that draw upon evolutionary ecological theory in biology IFT assumes that people indeed all organisms are ecologically rational and that human information seeking mechanisms and strategies adapt the structure of the information environments in which they operate Its main aim is to create technology that is better shaped to users Information Foraging Theory will be of interest to student and professional researchers in HCI and cognitive psychology

Migration, Risk and Uncertainty Allan M. Williams, Vladimír Baláž, 2014-08-07 Migration is one of the driving forces of economic and social change in the modern world It is both informed by risk and a generator of risk whether for individuals households communities or societies Although the relationship between migration and risk is widely acknowledged it has long been neglected in academic research with a few exceptions such as household diversification strategies Instead risk is assumed to be implicit in economic or social models rather than being explicitly theorised or analysed This book represents the first major review of these key relationships It draws on a wide range of theories from economics psychology sociology anthropology and geography and an equally broad range of empirical material to provide a highly original overview

Neural Basis of Motivational and Cognitive Control Rogier B. Mars, 2011 A multidisciplinary overview of key approaches in the study of cognitive control and decision making

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