

# Computational Level

problem

(unbounded) rationality

optimal solution

## Rational Process Models

idealized  
computational  
architecture

⋮

more realistic  
computational  
architecture

⋮

actual cognitive  
resources

resource-rationality

idealized  
process model

⋮

more realistic  
process model

⋮

actual cognitive  
processes

## Algorithmic Level

resource-rationality

resource-constraints



# Rational Models Of Cognition

**Wayne D. Gray**



## **Rational Models Of Cognition:**

**Rational Models of Cognition** Mike Oaksford, Nick Chater, 2023 This work explores an approach to understanding the human mind that regards thinking and decision making as facilities adapted to the structure of the world It contains discussions by some of the world's leading researchers in memory and categorization *Rational Models of Cognition* Mike Oaksford, Nick Chater, 1998 This book explores a new approach to understanding the human mind rational analysis that regards thinking as a facility adapted to the structure of the world This approach is most closely associated with the work of John R Anderson who published the original book on rational analysis in 1990 Since then a great deal of work has been carried out in a number of laboratories around the world and the aim of this book is to bring this work together for the benefit of the general psychological audience The book contains chapters by some of the world's leading researchers in memory categorisation reasoning and search who show how the power of rational analysis can be applied to the central question of how humans think It will be of interest to students and researchers in cognitive psychology cognitive science and animal behaviour

**Bayesian Models of Cognition** Thomas L. Griffiths, Nick Chater, Joshua B. Tenenbaum, 2024-11-12 The definitive introduction to Bayesian cognitive science written by pioneers of the field How does human intelligence work in engineering terms How do our minds get so much from so little Bayesian models of cognition provide a powerful framework for answering these questions by reverse engineering the mind This textbook offers an authoritative introduction to Bayesian cognitive science and a unifying theoretical perspective on how the mind works Part I provides an introduction to the key mathematical ideas and illustrations with examples from the psychological literature including detailed derivations of specific models and references that can be used to learn more about the underlying principles Part II details more advanced topics and their applications before engaging with critiques of the reverse engineering approach Written by experts at the forefront of new research this comprehensive text brings the fields of cognitive science and artificial intelligence back together and establishes a firmly grounded mathematical and computational foundation for the understanding of human intelligence The only textbook comprehensively introducing the Bayesian approach to cognition Written by pioneers in the field Offers cutting edge coverage of Bayesian cognitive science's research frontiers Suitable for advanced undergraduate and graduate students and researchers across the sciences with an interest in the mind brain and intelligence Features short tutorials and case studies of specific Bayesian models

**Integrated Models of Cognitive Systems** Wayne D. Gray, 2007-04-19 The field of cognitive modeling has progressed beyond modeling cognition in the context of simple laboratory tasks and begun to attack the problem of modeling it in more complex realistic environments such as those studied by researchers in the field of human factors The problems that the cognitive modeling community is tackling focus on modeling certain problems of communication and control that arise when integrating with the external environment factors such as implicit and explicit knowledge emotion cognition and the cognitive system These problems must be solved in order to produce integrated

cognitive models of moderately complex tasks Architectures of cognition in these tasks focus on the control of a central system which includes control of the central processor itself initiation of functional processes such as visual search and memory retrieval and harvesting the results of these functional processes Because the control of the central system is conceptually different from the internal control required by individual functional processes a complete architecture of cognition must incorporate two types of theories of control Type 1 theories of the structure functionality and operation of the controller and type 2 theories of the internal control of functional processes including how and what they communicate to the controller This book presents the current state of the art for both types of theories as well as contrasts among current approaches to human performance models It will be an important resource for professional and student researchers in cognitive science cognitive engineering and human factors Contributors Kevin A Gluck Jerry T Ball Michael A Krusmark Richard W Pew Chris R Sims Vladislav D Veksler John R Anderson Ron Sun Nicholas L Cassimatis Randy J Brou Andrew D Egerton Stephanie M Doane Christopher W Myers Hansjorg Neth Jeremy M Wolfe Marc Pomplun Ronald A Rensink Hansjorg Neth Chris R Sims Peter M Todd Lael J Schooler Wai Tat Fu Michael C Mozer Sachiko Kinoshita Michael Shettel Alex Kirlik Vladislav D Veksler Michael J Schoelles Jerome R Busemeyer Eric Dimperio Ryan K Jessup Jonathan Gratch Stacy Marsella Glenn Gunzelmann Kevin A Gluck Scott Price Hans P A Van Dongen David F Dinges Frank E Ritter Andrew L Reifers Laura Cousino Klein Michael J Schoelles Eva Hudlicka Hansjorg Neth Christopher W Myers Dana Ballard Nathan Sprague Laurence T Maloney Julia Trommershauser Michael S Landy A Hornof Michael J Schoelles David Kieras Dario D Salvucci Niels Taatgen Erik M Altmann Richard A Carlson Andrew Howes Richard L Lewis Alonso Vera Richard P Cooper and Michael D Byrne

Handbook of Cognition Koen Lamberts, Robert L. Goldstone, 2005 The Handbook of Cognition provides a definitive synthesis of the most up to date and advanced work in cognitive psychology in a single volume The editors have gathered together a team of world leading researchers in specialist areas of the field both traditional and hot new areas to present a benchmark in terms of theoretical insight and advances in methodology of the discipline This book contains a thorough overview of the most significant and current research in cognitive psychology that will serve this academic community like no other volume Adaptive Perspectives on Human-Technology Interaction : Methods and Models for Cognitive Engineering and Human-Computer Interaction Alex Kirlik Professor of Human Factors University of Illinois at Urbana-Champaign, 2006-04-05 In everyday life and particularly in the modern workplace information technology and automation increasingly mediate augment and sometimes even interfere with how humans interact with their environment How to understand and support cognition in human technology interaction is both a practically and socially relevant problem The chapters in this volume frame this problem in adaptive terms How are behavior and cognition adapted or perhaps ill adapted to the demands and opportunities of an environment where interaction is mediated by tools and technology The authors draw heavily on the work of Egon Brunswik a pioneer in ecological and cognitive psychology as well as on modern

refinements and extensions of Brunswikian ideas including Hammond's Social Judgment Theory Gigerenzer's Ecological Rationality and Anderson's Rational Analysis Inspired by Brunswik's view of cognition as coming to terms with the casual texture of the external world the chapters in this volume provide quantitative and computational models and measures for studying how people come to terms with an increasingly technological ecology and provide insights for supporting cognition and performance through design training and other interventions The methods models and measures presented in this book provide timely and important resources for addressing problems in the rapidly growing field of human technology interaction The book will be of interest to researchers students and practitioners in human factors cognitive engineering human computer interaction judgment and decision making and cognitive science

**Connectionist Models in Cognitive Psychology** George Houghton, 2004-08-02 A state of the art review of neural network modelling in core areas of cognitive psychology including memory and learning language written and spoken cognitive development cognitive control attention and action

**Cognition, Rationality, and Institutions** Manfred E. Streit, Uwe Mummert, Daniel Kiwit, 2012-12-06 Institutions are rules that are supported by various enforcement mechanisms Cognition refers to the process of how men perceive and process information whereas rationality refers to how these processes are modelled Within institutional economics there is a growing scepticism towards extending the conventional economic frame of analysis to institutions In particular the notion of perfect rationality is increasingly questioned At the same time human cognition has become a major field of research in psychology This book explores what institutional economics can learn from cognitive psychology regarding the proper modelling of rationality in order to explain institutional change

**Cognitive Unconscious and Human Rationality** Laura Macchi, Maria Bagassi, Riccardo Viale, 2016-03-11 Examining the role of implicit unconscious thinking on reasoning decision making problem solving creativity and its neurocognitive basis for a genuinely psychological conception of rationality This volume contributes to a current debate within the psychology of thought that has wide implications for our ideas about creativity decision making and economic behavior The essays focus on the role of implicit unconscious thinking in creativity and problem solving the interaction of intuition and analytic thinking and the relationship between communicative heuristics and thought The analyses move beyond the conventional conception of mind informed by extra psychological theoretical models toward a genuinely psychological conception of rationality a rationality no longer limited to conscious explicit thought but able to exploit the intentional implicit level The contributors consider a new conception of human rationality that must cope with the uncertainty of the real world the implications of abandoning the normative model of classic logic and adopting a probabilistic approach instead the argumentative and linguistic aspects of reasoning and the role of implicit thought in reasoning creativity and its neurological base Contributors Maria Bagassi Linden J Ball Jean Baratgin Aron K Barbey Tilmann Betsch Eric Billaut Jean Francois Bonnefon Pierre Bonnier Shira Elqayam Keith Frankish Gerd Gigerenzer Ken Gilhooly Denis Hilton Anna Lang Stefanie Lindow Laura Macchi Hugo Mercier Giuseppe

Mosconi Ian R Newman Mike Oaksford David Over Guy Politzer Johannes Ritter Steven A Sloman Edward J N Stuppel Ron Sun Nicole H Theriault Valerie A Thompson Emmanuel Trouche Raymond Riccardo Viale Bayesian Rationality Mike Oaksford, Nick Chater, 2007-02-22 For almost 2 500 years the Western concept of what is to be human has been dominated by the idea that the mind is the seat of reason humans are almost by definition the rational animal In this text a more radical suggestion for explaining these puzzling aspects of human reasoning is put forward **Rationality In An Uncertain World** Nick Chater, Mike Oaksford, 2004-08-02 This book brings together an influential sequence of papers that argue for a radical re conceptualisation of the psychology of inference and of cognitive science more generally The papers demonstrate that the thesis that logic provides the basis of human inference is central to much cognitive science although the commitment to this view is often implicit They then note that almost all human inference is uncertain whereas logic is the calculus of certain inference This mismatch means that logic is not the appropriate model for human thought Oaksford and Chater s argument draws on research in computer science artificial intelligence and philosophy of science in addition to experimental psychology The authors propose that probability theory the calculus of uncertain inference provides a more appropriate model for human thought They show how a probabilistic account can provide detailed explanations of experimental data on Wason s selection task which many have viewed as providing a paradigmatic demonstration of human irrationality Oaksford and Chater show that people s behaviour appears irrational only from a logical point of view whereas it is entirely rational from a probabilistic perspective The shift to a probabilistic framework for human inference has significant implications for the psychology of reasoning cognitive science more generally and for our picture of ourselves as rational agents *Cognitive Design for Artificial Minds* Antonio Lieto, 2021-03-31 Cognitive Design for Artificial Minds explains the crucial role that human cognition research plays in the design and realization of artificial intelligence systems illustrating the steps necessary for the design of artificial models of cognition It bridges the gap between the theoretical experimental and technological issues addressed in the context of AI of cognitive inspiration and computational cognitive science Beginning with an overview of the historical methodological and technical issues in the field of cognitively inspired artificial intelligence Lieto illustrates how the cognitive design approach has an important role to play in the development of intelligent AI technologies and plausible computational models of cognition Introducing a unique perspective that draws upon Cybernetics and early AI principles Lieto emphasizes the need for an equivalence between cognitive processes and implemented AI procedures in order to realize biologically and cognitively inspired artificial minds He also introduces the Minimal Cognitive Grid a pragmatic method to rank the different degrees of biological and cognitive accuracy of artificial systems in order to project and predict their explanatory power with respect to the natural systems taken as a source of inspiration Providing a comprehensive overview of cognitive design principles in constructing artificial minds this text will be essential reading for students and researchers of artificial intelligence and cognitive science **Psychology of Reasoning** Ken Manktelow, Man

Cheung Chung,2004-09-02 A set of specially commissioned chapters from leading international researchers in the psychology of reasoning Its purpose is to explore the historical philosophical and theoretical implications of the development of this field

*Cognitive Engineering and Safety Organization in Air Traffic Management* Tom Kontogiannis,Stathis Malakis,2017-10-17 This book covers the Air Traffic Management ATM environment and the controller crew interactions The International Civil Aviation Organization ICAO regulations and organizational procedures are also presented in a succinct manner so that novel and experienced aviation practitioners appreciate how safety organization affects their cognitive performance The book distills theoretical knowledge about human cognition and presents real examples and case studies to help readers understand how air traffic controllers make sense of difficult situations make decisions under time pressure detect and correct their errors and adapt their performance to complex situations      **The Oxford Handbook of Causal Reasoning**

Michael Waldmann,2017-03-30 Causal reasoning is one of our most central cognitive competencies enabling us to adapt to our world Causal knowledge allows us to predict future events or diagnose the causes of observed facts We plan actions and solve problems using knowledge about cause effect relations Although causal reasoning is a component of most of our cognitive functions it has been neglected in cognitive psychology for many decades The Oxford Handbook of Causal Reasoning offers a state of the art review of the growing field and its contribution to the world of cognitive science The Handbook begins with an introduction of competing theories of causal learning and reasoning In the next section it presents research about basic cognitive functions involved in causal cognition such as perception categorization argumentation decision making and induction The following section examines research on domains that embody causal relations including intuitive physics legal and moral reasoning psychopathology language social cognition and the roles of space and time The final section presents research from neighboring fields that study developmental phylogenetic and cultural differences in causal cognition The chapters each written by renowned researchers in their field fill in the gaps of many cognitive psychology textbooks emphasizing the crucial role of causal structures in our everyday lives This Handbook is an essential read for students and researchers of the cognitive sciences including cognitive developmental social comparative and cross cultural psychology philosophy methodology statistics artificial intelligence and machine learning      *Managerial and Organizational Cognition* Colin Eden,J.-C. Spender,Professor J C Spender,1998-03-19 Interest in the field of managerial and organizational cognition has been intense over the last few years This book explores and provides an in depth overview of the latest developments in the area and presents answers to the questions accompanying its growth Is the field distinctive How does it extend our understanding of managerial processes From different disciplinary perspectives and empirical settings the contributors study patterns of managerial cognition In particular the longitudinal approach reflected in the volume contributes to its impact as a grounded practice based analysis of cognition in organizations      **Proceedings of the**

**Twenty-second Annual Conference of the Cognitive Science Society** Lila R. Gleitman,Aravind K. Joshi,2000 Vol inclu all

papers posters presented at 2000 Cog Sci mtg summaries of symposia invited addresses Deal with issues of representing modeling cognitive processes appeals to scholars in all subdisciplines that comprise cognitive science psychology computer science neuroscience linguistics philosophy

**The Oxford Handbook of Thinking and Reasoning** Keith J. Holyoak, Robert G. Morrison, 2013-05-23 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

Time and Memory Christoph Hoerl, Teresa McCormack, 2001-04-26 The capacity to represent and think about time and the capacity to recollect the past are two of the most fundamental and least understood aspects of human cognition and consciousness This book throws new light on central issues in the study of the mind by uniting for the first time psychological and philosophical approaches dealing with the connection between temporal representation and memory Fifteen specially written essays by leading psychologists and philosophers investigate the way in which time is represented in memory and the role memory plays in our ability to reason about time They offer insights into current theories of memory processes and of the mechanisms and cognitive abilities underlying temporal judgements and draw out fundamental issues concerning the phenomenology and epistemology of memory and our understanding of time The chapters are arranged into four sections each focused on one area of current research I Keeping Track of Time and Temporal Representation II Memory Awareness and the Past III Memory and Experience IV Knowledge and the Past The Epistemology and Metaphysics of Time A general introduction gives an overview of the topics discussed and makes explicit central themes which unify the different philosophical and psychological approaches

**Introduction to Modeling Cognitive Processes** Tom Verguts, 2022-02-01 An introduction to computational modeling for cognitive neuroscientists covering both foundational work and recent developments Cognitive neuroscientists need sophisticated conceptual tools to make sense of their field's proliferation of novel theories methods and data Computational modeling is such a tool enabling researchers to turn theories into precise formulations This book offers a mathematically gentle and theoretically unified introduction to modeling cognitive processes Theoretical exercises of varying degrees of difficulty throughout help readers develop their modeling skills After a general introduction to cognitive modeling and optimization the book covers models of decision making supervised learning algorithms including Hebbian learning delta rule and backpropagation the statistical model analysis methods of model parameter estimation and model evaluation the three recent cognitive modeling approaches of reinforcement learning unsupervised learning and Bayesian models and models of social interaction All mathematical concepts are introduced gradually with no background in advanced topics required Hints and solutions for exercises and a glossary follow the main text All code in the book is Python with the Spyder editor in the Anaconda environment A GitHub repository with Python files enables readers to access the computer code used and start programming themselves The book is suitable as an introduction to modeling cognitive processes for students across a range of disciplines and as a reference for researchers interested in a broad overview



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