



Neural Basis of Motivational and Cognitive Control

edited by

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Neural Basis Of Motivational And Cognitive Control

EW Minium



Neural Basis Of Motivational And Cognitive Control:

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 *Motivation and Cognitive Control* Todd S. Braver, 2015-12-22 Individuals do not always perform to their full capability on cognitive tasks When this occurs the usual explanation is that the individual was not properly motivated But this begs the important question How and why does motivation interact with and influence cognitive processing and the control processes that regulate it What are the underlying mechanisms that govern such interactions Motivation has been an important component of psychology and neuroscience throughout the history of the field but has recently been rejuvenated by rapidly accelerating research interest in the nature of motivation cognition interactions particularly as they impact control processes and goal directed behavior This volume provides an up to date snapshot of the state of research in this exciting expanding area The contributors to the volume are internationally renowned researchers that lead the field in conducting groundbreaking studies Moreover they represent a variety of research perspectives and traditions cognitive psychology and neuroscience animal learning social affective and personality psychology and development lifespan and aging studies This book summarizes our current state of understanding of the relationship between motivation and cognitive control and serves as an essential reference for both students and researchers

Psychologische Begutachtung Ralf Dohrenbusch, 2025-03-08 Dieses Referenzwerk bietet eine Zusammenstellung von Leitlinien und Empfehlungen zur psychologischen Begutachtung von Funktionen und Funktionseinschränkungen und stellt somit eine umfangreiche praktisch relevante Orientierung zur Qualitätssicherung gutachterlicher Tätigkeiten dar Ein besonderes Augenmerk liegt hierbei auf der psychologischen Einzelfalldiagnostik und deren Bewertung im Laufe der gutachterlichen Beurteilung Neben rechtlichen und ethischen Rahmenbedingungen werden aktuelle psychologische und medizinische Standards und Leitlinien sowie Rechtsverordnungen zur Funktions- und Leistungsbeurteilung aufgeführt und durch Empfehlungen zur evidenzbasierten psychologischen Funktionsdiagnostik unterschiedlicher Methoden ergänzt z B Vorbefragungen Verhaltensbeobachtung Experimente und Testverfahren Biomarker u v m Ein weiterer Teil beschäftigt sich mit der gutachterlichen Urteilsbildung Wie können Anforderungen in psychologische Fragestellungen berührt werden und wie werden einzelne Ergebnisse in ein Gesamturteil integriert Spezifika für umschriebene Teilfunktionen z B physiologisch motorisch kognitiv emotional werden erläutert und es wird auf spezielle Anforderungen psychologischer Begutachtung in unterschiedlichen Anwendungsfeldern Beruf Verkehrstauglichkeit Neuropsychologie Psychotherapiebedarf etc eingegangen

The Myth of Executive Functioning Leonard F. Koziol, 2014-07-08 Executive functioning we measure it assess it document its development in youth track its decline in age and use it as a basis for diagnoses treatment planning and of course theories Could it be possible that science has spent decades chasing a cognitive phantom Noting the lack of consensus concerning definition component skills and location within

the brain The Myth of Executive Functioning calls basic assumptions prominent theories commonly used test methods and even the phrase executive functioning into question The book s deceptively simple argument takes an evolutionary neuroscience look at the cornerstones of cognitive organization including memory planning decision making and adaptation to novel circumstances From there gaps are identified between systems of cognitive control and those behaviors that are evaluated in neuropsychological testing gaps that contribute to the disconnect between how science views mind and body brain and behavior The author s problem solving metaphor places new emphasis on stimulus processing and on the relationship between movement and thought as he offers thought provoking perspectives on The limits of neuropsychological constructs The components of adaptive thinking The automatic aspects of problem solving The left brain right brain dichotomy Problems with the domain approach to cognition New paradigms for testing cognitive functioning A controversial presentation with the potential to change clinical practice and training The Myth of Executive Functioning will be read debated and learned from by neuropsychologists clinical psychologists psychiatrists cognitive neuroscientists and rehabilitation specialists

Motivation und Handeln Jutta Heckhausen, Heinz Heckhausen, 2025-08-31 Dieser Lehrbuch Klassiker liefert einen umfassenden und lebendigen Überblick über den derzeitigen Stand der Motivationsforschung Die 6. Auflage wurde bearbeitet und aktualisiert Eine lernfreundliche Didaktik erleichtert das Lesen und Lernen für die Prüfung hervorgehobene Schlüsselbegriffe und Kapitelzusammenfassungen Anwendungsbeispiele aus Schule Arbeitsleben Familie und Freizeit Boxen mit klassischen oder originellen Studien sowie Fragen und Antworten zur Wissensüberprüfung Für Psychologie Studierende im Bachelorstudium ist dieses Lehrbuch ein Studienbegleiter für Fortgeschrittene Lehrende und Forschende hat es sich als Handbuch und Nachschlagewerk bewährt Eine begleitende Website auf www.lehrbuch-psychologie.springer.com bietet Lerntools für Studierende sowie Folien sowie für eine komplette Vorlesung und Abbildungen zur Gestaltung der Lehre für Dozierende

Decision Making: Neural and Behavioural Approaches, 2013-01-10 This well established international series examines major areas of basic and clinical research within neuroscience as well as emerging and promising subfields This volume explores interdisciplinary research on decision making taking a neural and behavioural approach Leading authors review the state of the art in their field of investigation and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background information and are written in a clear form that is also accessible to the non specialist

The Psychology of Cognition Durk Talsma, 2023-08-19 This comprehensive cutting edge textbook offers a layered approach to the study of cognitive neuroscience and psychology It embraces multiple exciting and influential theoretical approaches such as embodied cognition and predictive coding and explaining new topics such as motor cognition cognitive control consciousness and social cognition Durk Talsma offers foundational knowledge which he expands and enhances with coverage of complex topics explaining their interrelatedness and presenting them together with classic

experiments and approaches in a historic context Providing broad coverage of world class international research this richly illustrated textbook covers key topics including Action control and cognitive control Consciousness and attention Perception Multisensory processing and perception action integration Motivation and reward processing Emotion and cognition Learning and memory Language processing Reasoning Numerical cognition and categorisation Judgement decision making and problem solving Social cognition Applied cognitive psychology With pedagogical features that include highlights of relevant methods and historical notes to spark student interest this essential text will be invaluable reading for all students of cognitive psychology and cognitive neuroscience

Motivation and Action Jutta Heckhausen, 2025-09-30 This fourth edition provides translations of all chapters of the most recent sixth German edition of Motivation and Action including one entirely new chapter This volume provides comprehensive coverage of the history of motivation and introduces up to date theories and new research findings Early sections offer a broad introduction to and deep understanding of the field of motivation psychology mapping out different perspectives and research traditions Subsequent chapters examine major themes of human motivation including achievement affiliation and power motivation as well as the fundamentals of motivation psychology such as motivated and goal oriented behaviors implicit and explicit motives and the regulation of development In addition the book discusses the roles of motivation in three practical fields school and college the workplace and sports Topics featured in this text include Dynamic between person and situation in motivating behavior Conscious and unconscious motivators of behavior Drives and incentives in the fields of achievement intimacy sociability and power How the biochemistry and structures of our brain shapes motivated behavior How to engage in intentional goal directed behavior The potential and limits of motivation and self direction in shaping our lives Motivation and Action Fourth Edition is a must have resource for undergraduate and graduate students as well as researchers in the fields of motivation psychology cognitive psychology and social psychology as well as personality psychology and agency

Allgemeine Psychologie Martina Rieger, Jochen Müsseler, 2024-10-31 Die Neuauflage dieses Standardlehrbuchs bietet einen umfassenden Einblick in zentrale Aspekte menschlichen Erlebens und Verhaltens Hierbei stehen Prozesse und Mechanismen der psychischen Vorgänge im Vordergrund welche aus kognitions und neurowissenschaftlicher Perspektive betrachtet werden Inhaltlich werden in diesem Standardwerk folgende wesentliche Themenbereiche dargestellt Wahrnehmung und Aufmerksamkeit Emotion und Motivation Lernen und Gedächtnis Sprachproduktion und verstehen Denken und Problemlösen Handlungsplanung und Ausführung Die einzelnen Kapitel wurden von Expertinnen des jeweiligen Gebiets verfasst Diese vierte Auflage ist grundlegend aktualisiert und durch zusätzliche Kapitel ergänzt worden Die Inhalte werden durch konkrete Anwendungsbeispiele aus der Forschung für die Praxis und informative farbige Illustrationen sowie ein didaktisch ausgereiftes Layout veranschaulicht Zusätzlich sind sie mit digitalen Fragen und Antworten zum Selbsttest angereichert Wie die vorhergehenden Auflagen bietet auch diese Auflage eine kompetente Einführung für Studierende die ideal ist zur Prüfungsvorbereitung im Bachelor und

Masterstudium Gleichzeitig ist dieses Werk ein optimales Nachschlagewerk für wissenschaftlich und praktisch arbeitende Psychologinnen und Personen aus benachbarten Disziplinen Studierende und Dozierende finden hilfreiche Online Zusatzmaterialien und die inkludierte Flashcard App auf der Begleitwebseite

ADHD as a Model of Brain-Behavior Relationships Leonard F. Koziol, Deborah Ely Budding, Dana Chidekel, 2013-09-24 ADHD as a Model of Brain Behavior Relationships Leonard F. Koziol, Deborah Ely Budding and Dana Chidekel Series Title Springer Briefs in Neuroscience Subseries The Vertically Organized Brain in Theory and Practice It's been a basic neurological given the brain does our thinking and has evolved to do the thinking as controlled by the neocortex In this schema all dysfunction can be traced to problems in the brain's lateral interactions But in scientific reality is this really true Challenging this traditional cortico-centric view is a body of research emphasizing the role of the structures that control movement the brain's vertical organization in behavioral symptoms Using a well known widely studied disorder as a test case ADHD as a Model of Brain Behavior Relationships offers an innovative framework for integrating neuroscience and behavioral research to refine diagnostic process and advance the understanding of disorders Identifying a profound disconnect between current neuropsychological testing and the way the brain actually functions this revision of the paradigm critiques the DSM and ICD in terms of the connectedness of brain structures regarding cognition and behavior The authors argue for a large scale brain network approach to pathology instead of the localizing that is so common historically and for an alternate set of diagnostic criteria proposed by the NIMH Included in the coverage The diagnosis of ADHD history and context ADHD and neuropsychological nomenclature Research Domain Criteria a dimensional approach to evaluating disorder The development of motor skills executive function and a relation to ADHD The role of the cerebellum in cognition emotion motivation and dysfunction How large scale brain networks interact Heralding a more accurate future of assessment diagnosis and treatment of neurodevelopmental disorders ADHD as a Model of Brain Behavior Relationships represents a major step forward for neuropsychologists child psychologists and psychiatrists or any related profession interested in a neuroscientific understanding of brain function

Praxishandbuch Psychische Gesundheit in der Adoleszenz Daniel Illy, Michael Frey, 2023-01-20 Das Buch zeigt Ihnen verschiedene psychische Erkrankungen über die Lebensspanne vom Kindes und Jugendalter bis hin zum jungen Erwachsenenalter Sie erfahren wie sich psychische Erkrankungen im Verlauf verändern und erhalten eine Vielzahl von Beispielen und Tipps für den Praxisalltag Darüber hinaus werden auch rechtliche Fragen beantwortet Erklärt und beschrieben wird was für einen geplanten Übergang Transition von einer jugendzentrierten hin zu einer erwachsenenorientierten psychiatrischen Versorgung erforderlich ist um die Heranwachsenden bei den damit verbundenen Schwierigkeiten bestmöglich unterstützen zu können Das Buch eignet sich für Weiterbildungsassistentinnen und Fachärztinnen Kinder und Jugendpsychiatrie Fachärztinnen Psychiatrie und Psychotherapie Psychologische Psychotherapeutinnen

Dual Process Theory 2.0 Wim De Neys, 2017-11-09 Dual Process Theory 2.0 provides a comprehensive overview

of the new directions in which dual process research is heading Human thinking is often characterized as an interplay between intuition and deliberation and this two headed dual process view of human thinking has been very influential in the cognitive sciences and popular media However despite the popularity of the dual process framework it faces multiple challenges Recent advances indicate that there is a strong need to re think some of the fundamental assumptions of the original dual process model With chapters written by leading scholars who have been actively involved in the development of an upgraded Dual Process Theory 2 0 this edited volume presents an accessible overview of the latest empirical findings and theoretical ideas With cutting edge insights on the interaction between intuition and deliberation Dual Process Theory 2 0 should be of interest to psychologists philosophers and economists who are using dual process models Neural Circuitry of Behavioral Flexibility: Dopamine and Related Systems Gregory B. Bissonette, Matthew R. Roesch, 2016-03-22 Decades of research have identified a role for dopamine neurotransmission in prefrontal cortical function and flexible cognition Abnormal dopamine neurotransmission underlies many cases of cognitive dysfunction New techniques using optogenetics have allowed for ever more precise functional segregation of areas within the prefrontal cortex which underlie separate cognitive functions Learning theory predictions have provided a very useful framework for interpreting the neural activity of dopamine neurons yet even dopamine neurons present a range of responses from salience to prediction error signaling The functions of areas like the Lateral Habenula have been recently described and its role presumed to be substantial is largely unknown Many other neural systems interact with the dopamine system like cortical GABAergic interneurons making it critical to understand those systems and their interactions with dopamine in order to fully appreciate dopamine s role in flexible behavior Advances in human clinical research like exome sequencing are driving experimental hypotheses which will lead to fruitful new research directions but how do or should these clinical findings inform basic research Following new information from these techniques we may begin to develop a fresh understanding of human disease states which will inform novel treatment possibilities However we need an operational framework with which to interpret these new findings Therefore the purpose of this Research Topic is to integrate what we know of dopamine the prefrontal cortex and flexible behavior into a clear framework which will illuminate clear testable directions for future research **Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, Learning and Memory** ,2018-02-01 I Learning fear learning education and memory memory and future imagining sleep and memory emotion and memory motivation and memory inhibition in memory attention and memory aging and memory autobiographical memory eyewitness memory and category learning Psychiatry and Clinical Neuroscience Charles Zorumski, Eugene Rubin, 2011-06-16 Psychiatric disorders are brain disorders reflecting dysfunction within and across neural networks Advances in functional neuroimaging and cellular neuroscience offer hope of revolutionizing the approach to diagnosis and treatment of mental illnesses This book presents an introduction to network neuroscience and demonstrates the relationship of advances in this field to the future of psychiatry

Motivation, 2016-10-28 Motivation Theory Neurobiology and Applications is inspired by a question central to health care professionals teachers parents and coaches alike How can an individual be motivated to perform a given activity or training It presents novel measurements of motivation developed in psychology and economics recent insights into the neurobiology of motivation and current research on applications designed to boost motivation in neurorehabilitation education and sports In addition tactics on how to connect these different research and knowledge fields within a common theoretical framework of motivation is discussed Thus in short the book provides an integrative interdisciplinary up to date accounting on the neurobiology of motivation and how it might be boosted Provides an integration of the neurosciences their clinical challenges and applicable research Includes both an interdisciplinary and integrative nature Contains a broad array of subject matter that will be of interest to a large target audience Presents contributions from experts in their respective fields **The Handbook of Dopamine** Stephanie J. Cragg, Mark Walton, 2025-07-04 The Handbook of Dopamine captures current understanding of dopamine biology in the brain including anatomical organization of dopamine neurons their molecular and genetic diversity synaptic and circuit connectivity receptor function and signalling through to diverse roles in behaviors and finally dysfunction in disease This volume compiles a comprehensive set of perspectives from a large number of leading scientists working in dopamine research The volume describes the current state of the field summarizing knowledge that has been transformed in the last decade through the advent and application of sophisticated new technologies Offers up to date review of dopamine biology across fields Explores the function and regulation of dopamine neurons in healthy behavior and also dysfunction in disease Includes historical and future perspectives in the field of dopamine research **Anatomical and functional neural networks changes in cognitive impairment and healthy aging** Fermín Segovia, Cosimo Urgesi, 2023-04-14 *Motivation-Cognition Interaction: From Neurocognitive Models to Clinical Applications* Elisa Di Rosa, Todd S. Braver, Daniela Mapelli, Nicky M. J. Edelstyn, 2021-07-08 **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

Neural Basis Of Motivational And Cognitive Control Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Neural Basis Of Motivational And Cognitive Control**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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Table of Contents Neural Basis Of Motivational And Cognitive Control

1. Understanding the eBook Neural Basis Of Motivational And Cognitive Control
 - The Rise of Digital Reading Neural Basis Of Motivational And Cognitive Control
 - Advantages of eBooks Over Traditional Books
2. Identifying Neural Basis Of Motivational And Cognitive Control
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Neural Basis Of Motivational And Cognitive Control
 - User-Friendly Interface
4. Exploring eBook Recommendations from Neural Basis Of Motivational And Cognitive Control
 - Personalized Recommendations
 - Neural Basis Of Motivational And Cognitive Control User Reviews and Ratings
 - Neural Basis Of Motivational And Cognitive Control and Bestseller Lists

5. Accessing Neural Basis Of Motivational And Cognitive Control Free and Paid eBooks
 - Neural Basis Of Motivational And Cognitive Control Public Domain eBooks
 - Neural Basis Of Motivational And Cognitive Control eBook Subscription Services
 - Neural Basis Of Motivational And Cognitive Control Budget-Friendly Options
6. Navigating Neural Basis Of Motivational And Cognitive Control eBook Formats
 - ePub, PDF, MOBI, and More
 - Neural Basis Of Motivational And Cognitive Control Compatibility with Devices
 - Neural Basis Of Motivational And Cognitive Control Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Neural Basis Of Motivational And Cognitive Control
 - Highlighting and Note-Taking Neural Basis Of Motivational And Cognitive Control
 - Interactive Elements Neural Basis Of Motivational And Cognitive Control
8. Staying Engaged with Neural Basis Of Motivational And Cognitive Control
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Neural Basis Of Motivational And Cognitive Control
9. Balancing eBooks and Physical Books Neural Basis Of Motivational And Cognitive Control
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Neural Basis Of Motivational And Cognitive Control
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Neural Basis Of Motivational And Cognitive Control
 - Setting Reading Goals Neural Basis Of Motivational And Cognitive Control
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Neural Basis Of Motivational And Cognitive Control
 - Fact-Checking eBook Content of Neural Basis Of Motivational And Cognitive Control
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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