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The cognitive neuroscience of memory

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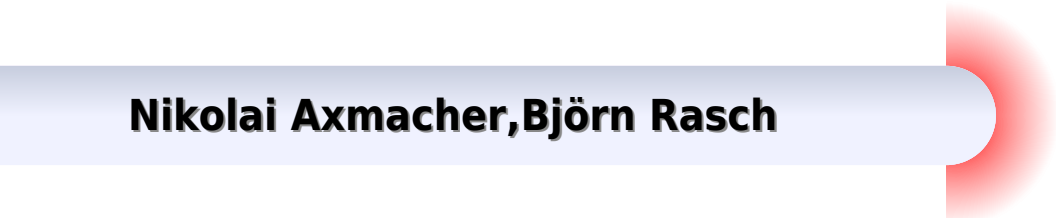
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The Cognitive Neuroscience Of Memory An Introduction

Nikolai Axmacher, Björn Rasch



The Cognitive Neuroscience Of Memory An Introduction:

Cognitive Neuroscience of Memory Scott D. Slotnick, 2017-02-13 Within the last two decades the field of cognitive neuroscience has begun to thrive with technological advances that non invasively measure human brain activity This is the first book to provide a comprehensive and up to date treatment on the cognitive neuroscience of memory Topics include cognitive neuroscience techniques and human brain mechanisms underlying long term memory success long term memory failure working memory implicit memory and memory and disease Cognitive Neuroscience of Memory highlights both spatial and temporal aspects of the functioning human brain during memory Each chapter is written in an accessible style and includes background information and many figures In his analysis Scott D Slotnick questions popular views rather than simply assuming they are correct In this way science is depicted as open to question evolving and exciting

The Cognitive Neuroscience of Memory : An Introduction Howard Eichenbaum Library of Cognitive Neurobiology Boston University, 2002-02-07 This clear and accessible textbook introduces students to the brain s remarkable capacity for memory It begins with a history of thinking and research on the biological bases of memory highlighting discoveries about the brain made in a Golden Era of neuroscience around the turn of the 20th century This is followed by presentation of our current understanding of the neurobiology of memory organized into sections corresponding to the book s four major themes The first is Connection and it considers how memory is based on alterations in the communication between nerve cells Research on the physiology and biochemistry of neurons has revealed a cascade of molecular events and structural changes that enhance or weaken the connectivity of nerve cells in support of memory The second theme is Cognition which considers the psychological structure of memory Early work on this topic involved controversy over the basic cognitive processes that underlie memory and modern research has shown that these characterizations reflect distinctions among qualitatively different forms of memory The third theme is Compartmentalization the notion that the different forms of memory are accomplished by distinct brain systems Recent research has revealed parallel memory systems that separately mediate our ability for conscious recollection our capacity to acquire skills and habits and our acquisition of emotional attachments and aversions The fourth theme is Consolidation the process by which memories are transformed from a labile trace into a permanent store Scientists have shown that there are two distinct stages in memory consolidation one involving cellular mechanisms that underlie a fixation of changes in the neuronal connection strengths and the other involving a reorganization and reconstruction of the circuits that store and retrieve memories The book assumes little background knowledge from biology or psychology and is intended as a text for use in undergraduate courses on memory and cognitive science and for early graduate students in neuroscience cognitive science or biology It encapsulates the major concepts in the field and makes this area of research accessible to students who pursue a variety of related disciplines

Cognitive Neuroscience of Memory Scott Slotnick, 2017-02-14 This book provides the only comprehensive and up to date treatment on the cognitive neuroscience

of memory Cognitive Neuroscience of Memory Scott D. Slotnick,2017

Cognitive Neuroscience of Memory

Consolidation Nikolai Axmacher,Björn Rasch,2017-02-09 This edited volume provides an overview the state of the art in the field of cognitive neuroscience of memory consolidation In a number of sections the editors collect contributions of leading researchers The topical focus lies on current issues of interest such as memory consolidation including working and long term memory In particular the role of sleep in relation to memory consolidation will be addressed The target audience primarily comprises research experts in the field of cognitive neuroscience but the book may also be beneficial for graduate students

The Cognitive Neurosciences Michael S. Gazzaniga,2009-09-18 The fourth edition of The Cognitive Neurosciences continues to chart new directions in the study of the biologic underpinnings of complex cognition the relationship between the structural and physiological mechanisms of the nervous system and the psychological reality of the mind The material in this edition is entirely new with all chapters written specifically for it Book Jacket *Introduction to Cognitive Neuroscience* Iiro Jääskeläinen,2012

Learning & Memory Howard Eichenbaum,2008 In Learning Memory leading researcher Howard Eichenbaum provides a new fashioned synthesis of the contemporary learning and memory fields

The Cognitive Neuroscience of Memory Amanda Parker,Edward L. Wilding,Timothy J. Bussey,2013-10-31 Recent advances in techniques available to memory researchers have led to a rapid expansion in the field of cognitive neuroscience of memory This book provides accessible coverage of four key areas of recent advance including research on functional imaging electrophysiological and lesion studies and developments from the computational modelling approach The first section reviews functional imaging studies in humans with particular emphasis on how imaging methods have clarified the cortical areas involved in memory formation and retrieval The second section describes electrophysiological and lesion research in monkeys where lesion and disconnection studies are rapidly adding to our knowledge of both information processing and modulatory aspects of memory formation In the third section electrophysiological and lesion studies in rats are reviewed allowing for a detailed study of the role of novelty and exploration in memory formation The final section reviews current research in computational modelling which has allowed the development of new theoretical and experimental approaches to the study of memory encoding and retrieval This volume draws together the current developments in each field allowing the synthesis of ideas and providing converging evidence from a range of sources It will be a useful resource for both advanced undergraduate and postgraduate students of psychology as well as researchers in the field and anyone with an interest in cognitive neuroscience *Cognition, Brain, and Consciousness* Bernard J. Baars,Nicole M. Gage,2007-06-05 A textbook for psychology neuroscience pre medical students and everybody interested in the neuroscience of cognition A wave of new research is transforming our understanding of the human mind and brain Many educational fields now require a basic understanding of the new topic of cognitive neuroscience However available textbooks are written more for biology audiences than for psychology and related majors This text aims to bridge that gap A

background in biology of neuroscience is not required The thematic approach builds on widely understood concepts in psychology such as working memory selective attention and social cognition Edited by two leading experts in the field the book guides the reader along a clear path to understand the latest findings FEATURES Written specifically for psychology pre medical education and neuroscience undergraduate and graduate students The thematic approach builds on on accepted concepts not presuming a background in neuroscience or biology Includes two Appendices on brain imaging and neural networks written by Thomas Ramsoy and Igor Aleksander Introduces the brain in a step by step readable style with gradually increasing sophistication Richly illustrated in full color with clear and detailed drawings that build the brain from top to bottom simplifying the layout of the brain for students Pedagogy includes exercises and study questions at the end of each chapter Written specifically for psychology pre medical education and neuroscience undergraduate and graduate students The thematic approach builds on on accepted concepts not presuming a background in neuroscience or biology Includes two Appendices on brain imaging and neural networks written by Thomas Ramsoy and Igor Aleksander Introduces the brain in a step by step readable style with gradually increasing sophistication Richly illustrated in full color with clear and detailed drawings that build the brain from top to bottom simplifying the layout of the brain for students Pedagogy includes exercises and study questions at the end of each chapter including drawing exercises

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