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# Functional Neuroimaging of Visual Cognition

## Attention and Performance XX

Edited by  
Nancy Kanwisher and John Duncan



# Functional Neuroimaging Of Visual Cognition

**Richard E. Mayer, Patricia A. Alexander**



## **Functional Neuroimaging Of Visual Cognition:**

Functional Neuroimaging of Visual Cognition Nancy Kanwisher, Dr John Duncan, 2023 Functional neuroimaging has enhanced our knowledge of the brain and has guided the field of cognitive neuroscience For this volume Nancy Kanwisher and John Duncan have brought together experts in cognitive neuroscience to present an account of current imaging research in visual cognition

**Functional Neuroimaging of Visual Cognition** Nancy Kanwisher, John Duncan, 2004 The latest volume in the critically acclaimed and highly influential Attention and Performance series focuses on the role that functional neuroimaging plays in visual cognition Functional neuroimaging has greatly enhanced our knowledge of the brain and has been one of the most important tools in cognitive neuroscience At the same time the full power of neuroimaging can be realized only if there is convergence with theories based on other approaches including computational modelling behavioural experiments and electrophysiology in the behaving animal In this book Nancy Kanwisher and John Duncan have brought together leading cognitive neuroscientists to present groundbreaking new research on the neural bases of vision The first part of the book considers the degree to which visual processing in the brain is modular including contributions from both sceptics and proponents of modularity Part 2 focuses on object recognition in particular the role of the ventral visual pathway In part 3 the mechanisms of visual attention are discussed The final part of the book explores the relationship between vision and action with a look at the neurophysiology of sensorimotor integration In additional chapters Giacomo Rizzolatti discusses research on mirror neurons and their implications for understanding the actions and intentions of others while Michael Posner considers what we have achieved so far with neuroimaging and looks to the future and the next steps in our quest to understand brain function Superbly edited and full of stunning colour images this will be one of the key publications in the field of cognitive neuroscience

**Processes of Change in Brain and Cognitive Development** Yuko Munakata, Mark Johnson, 2006-04-06 This new volume in the highly cited and critically acclaimed Attention and Performance series is the first to provide a systematic investigation of how imaging techniques can help us understand the processes of change in mental development It brings together world class scientists to address brain and cognitive development at several different levels including phylogeny genetics neurophysiology brain imaging behavior and computational modeling across both typically and atypically developing populations

Handbook of Functional Neuroimaging of Cognition, second edition Roberto Cabeza, Alan Kingstone, 2006-05-05 A new edition of the essential resource on using functional neuroimaging techniques to study the neural basis of cognition revised with the student in mind thoroughly updated with new chapters on fMRI physics skill learning emotion and social cognition and other topics This essential resource on neuroimaging provides an accessible and user friendly introduction to the field written by leading researchers The book describes theoretical and methodological developments in the use of functional neuroimaging techniques to study the neural basis of cognition from early scientific efforts to link brain and behavior to the latest applications of fMRI and PET methods The core of the book covers fMRI and

PET studies in specific domains attention skill learning semantic memory language episodic memory working memory and executive functions By introducing a technique within the description of a domain the book offers a clear explanation of the process while highlighting its biological context The emphasis on readability makes Handbook of Functional Neuroimaging of Cognition ideal for classroom use in advanced undergraduate and graduate courses in cognitive neuroscience This second edition has been completely updated to reflect new developments in the field with existing chapters rewritten and new chapters added to each section The section on history and methods now includes a chapter on the crucial topic of the physics of functional neuroimaging the chapters on skill learning and executive functions are new to the domain section and chapters on childhood development and emotion and social cognition have been added to the section on developmental social and clinical applications The color insert has been increased in size enhancing the visual display of representative findings

Contributors Todd S Braver Jeffrey Browndyke Roberto Cabeza B J Casey Jody Culham Clayton E Curtis Mark D Esposito Sander Daselaar Lila Davachi Ian Dobbins Karl J Friston Barry Giesbrecht Todd C Handy Joseph B Hopfinger Scott A Huettel Irene P Kan Alan Kingstone Eleni Kotsoni Kevin S LaBar George R Mangun Gregory McCarthy Uta Noppeney Robyn T Oliver Elizabeth A Phelps Russel A Poldrack Cathy J Price Marcus E Raichle Hannes Ruge Gaia Scerif Allen W Song Sharon L Thompson Schill Daniel T Willingham Richard J S Wise

**Neurobiology of Attention** Laurent Itti, Geraint Rees, John K. Tsotsos, 2005-03-31 A key property of neural processing in higher mammals is the ability to focus resources by selectively directing attention to relevant perceptions thoughts or actions Research into attention has grown rapidly over the past two decades as new techniques have become available to study higher brain function in humans non human primates and other mammals Neurobiology of Attention is the first encyclopedic volume to summarize the latest developments in attention research An authoritative collection of over 100 chapters organized into thematic sections provides both broad coverage and access to focused up to date research findings This book presents a state of the art multidisciplinary perspective on psychological physiological and computational approaches to understanding the neurobiology of attention Ideal for students as a reference handbook or for rapid browsing the book has a wide appeal to anybody interested in attention research Contains numerous quick reference articles covering the breadth of investigation into the subject of attention Provides extensive introductory commentary to orient and guide the reader Includes the most recent research results in this field of study

*Handbook of Functional Neuroimaging of Cognition, second edition* Roberto Cabeza, Alan Kingstone, 2024-08-06 A new edition of the essential resource on using functional neuroimaging techniques to study the neural basis of cognition revised with the student in mind thoroughly updated with new chapters on fMRI physics skill learning emotion and social cognition and other topics This essential resource on neuroimaging provides an accessible and user friendly introduction to the field written by leading researchers The book describes theoretical and methodological developments in the use of functional neuroimaging techniques to study the neural basis of cognition from early scientific efforts to link brain and

behavior to the latest applications of fMRI and PET methods The core of the book covers fMRI and PET studies in specific domains attention skill learning semantic memory language episodic memory working memory and executive functions By introducing a technique within the description of a domain the book offers a clear explanation of the process while highlighting its biological context The emphasis on readability makes Handbook of Functional Neuroimaging of Cognition ideal for classroom use in advanced undergraduate and graduate courses in cognitive neuroscience This second edition has been completely updated to reflect new developments in the field with existing chapters rewritten and new chapters added to each section The section on history and methods now includes a chapter on the crucial topic of the physics of functional neuroimaging the chapters on skill learning and executive functions are new to the domain section and chapters on childhood development and emotion and social cognition have been added to the section on developmental social and clinical applications The color insert has been increased in size enhancing the visual display of representative findings Contributors Todd S Braver Jeffrey Browndyke Roberto Cabeza B J Casey Jody Culham Clayton E Curtis Mark D Esposito Sander Daselaar Lila Davachi Ian Dobbins Karl J Friston Barry Giesbrecht Todd C Handy Joseph B Hopfinger Scott A Huettel Irene P Kan Alan Kingstone Eleni Kotsoni Kevin S LaBar George R Mangun Gregory McCarthy Uta Noppeney Robyn T Oliver Elizabeth A Phelps Russel A Poldrack Cathy J Price Marcus E Raichle Hannes Ruge Gaia Scerif Allen W Song Sharon L Thompson Schill Daniel T Willingham Richard J S Wise

*Functional Neuroimaging of Visual Cognition* Nancy Kanwisher, John Duncan, 2004

The latest volume in the critically acclaimed and highly influential Attention and Performance series focuses on the role that functional neuroimaging plays in visual cognition Functional neuroimaging has greatly enhanced our knowledge of the brain and has been one of the most important tools in cognitive neuroscience At the same time the full power of neuroimaging can be realized only if there is convergence with theories based on other approaches including computational modelling behavioural experiments and electrophysiology in the behaving animal In this book Nancy Kanwisher and John Duncan have brought together leading cognitive neuroscientists to present groundbreaking new research on the neural bases of vision The first part of the book considers the degree to which visual processing in the brain is modular including contributions from both sceptics and proponents of modularity Part 2 focuses on object recognition in particular the role of the ventral visual pathway In part 3 the mechanisms of visual attention are discussed The final part of the book explores the relationship between vision and action with a look at the neurophysiology of sensorimotor integration In additional chapters Giacomo Rizzolatti discusses research on mirror neurons and their implications for understanding the actions and intentions of others while Michael Posner considers what we have achieved so far with neuroimaging and looks to the future and the next steps in our quest to understand brain function Superbly edited and full of stunning colour images this will be one of the key publications in the field of cognitive neuroscience

Modeling of Visual Cognition, Body Sense, Motor Control and Their Integrations Hong Qiao, Li Hu, 2017-04-25

The interdisciplinary studies between neuroscience and information science have

greatly promoted the development of these two fields The achievements of these studies can help humans understand the essence of biological systems provide computational platforms for biological experiments and improve the intelligence and performance of the algorithms in information science This research topic is focused on the computational modeling of visual cognition body sense motor control and their integrations Firstly the modeling and simulation of vision and body sense are achieved by 1 understanding neural mechanism underlying sensory perception and cognition and 2 mimicking accordingly the structures and mechanisms of their signal propagation pathways The achievement of this procedure could provide neural findings for better encoding and decoding visual and somatosensory perception of humans and help robots or systems build humanoid robust vision body sensing and various emotions Secondly the modeling and simulation of the motor system of the primate are achieved by mimicking the coordination of bones muscles and joints and the control mechanisms of the neural system in the brain and spinal cord This procedure could help robots achieve fast robust and accurate manipulations and be used for safe human computer interaction Finally by integrating them more complete and intelligent systems robots could be built to accomplish various tasks self adaptively and automatically

**The Cognitive Electrophysiology of Mind and Brain** Alberto Zani,Alice Proverbio,2002-10-02 When his beloved donkey becomes ill a young Italian boy is determined to take her to the crypt of St Francis in Assisi in hopes of making her well *The Visual Neuroscience of Robotic Grasping* Eris Chinellato,Angel P. del Pobil,2015-06-19 This book presents interdisciplinary research that pursues the mutual enrichment of neuroscience and robotics Building on experimental work and on the wealth of literature regarding the two cortical pathways of visual processing the dorsal and ventral streams we define and implement computationally and on a real robot a functional model of the brain areas involved in vision based grasping actions Grasping in robotics is largely an unsolved problem and we show how the bio inspired approach is successful in dealing with some fundamental issues of the task Our robotic system can safely perform grasping actions on different unmodeled objects denoting especially reliable visual and visuomotor skills The computational model and the robotic experiments help in validating theories on the mechanisms employed by the brain areas more directly involved in grasping actions This book offers new insights and research hypotheses regarding such mechanisms especially for what concerns the interaction between the dorsal and ventral streams Moreover it helps in establishing a common research framework for neuroscientists and roboticists regarding research on brain functions

Visual Perception Nicholas Wade,Mike Swanston,2013-03-05 Does the world appear the same to everyone Does what we know determine what we see Why do we see the world as we do Vision is our most dominant sense From the light that enters our eyes to the complex cognitive processes that follow we derive most of our information about what things are where they are and how they move from our vision Visual Perception takes a refreshingly different approach to this enigmatic sense From the function that vision serves for an active observer to the history of visual perception itself the third edition has been extensively revised updated and expanded while still preserving the essential features of historical context neurophysiology

and independent thought that made the earlier editions so engaging Covering the perception of location motion object recognition and with up to date information on the workings of the visual brain the 3rd edition looks at how our ideas have been shaped not just by psychology but by art optics biology and philosophy The emphasis on understanding vision as a basis for action in the real world has also been expanded to cover seeing representations of all sorts whether they are pictures or computer generated displays The 3rd Edition of Visual Perception is a readable accessible and truly relevant introduction to the world of perception and will be welcomed by students of visual perception as well as anyone with a general interest in the mysteries and wonder of vision

**Handbook of Research on Learning and Instruction** Richard E. Mayer, Patricia A. Alexander, 2016-10-04 During the past 30 years researchers have made exciting progress in the science of learning i e how people learn and the science of instruction i e how to help people learn This second edition of the Handbook of Research on Learning and Instruction is intended to provide an overview of these research advances With chapters written by leading researchers from around the world this volume examines learning and instruction in a variety of learning environments including in classrooms and out of classrooms and with a variety of learners including K 16 students and adult learners Contributors to this volume demonstrate how and why educational practice should be guided by research evidence concerning what works in instruction The Handbook is written at a level that is appropriate for graduate students researchers and practitioners interested in an evidence based approach to learning and instruction The book is divided into two sections learning and instruction The learning section consists of chapters on how people learn in reading writing mathematics science history second language and physical education as well as how people acquire the knowledge and processes required for critical thinking studying self regulation and motivation The instruction section consists of chapters on effective instructional methods feedback examples questioning tutoring visualizations simulations inquiry discussion collaboration peer modeling and adaptive instruction Each chapter in this second edition of the Handbook has been thoroughly revised to integrate recent advances in the field of educational psychology Two chapters have been added to reflect advances in both helping students develop learning strategies and using technology to individualize instruction As with the first edition this updated volume showcases the best research being done on learning and instruction by traversing a broad array of academic domains learning constructs and instructional methods

**Functional Neuroimaging in Clinical Populations** Frank G. Hillary, John DeLuca, 2007-06-06 Bringing together leading experts this volume reviews cutting edge applications of neuroimaging techniques in the study of brain injury brain disease and normal aging It provides up to date descriptions of EEG MEG PET and fMRI discusses salient methodological issues and presents significant clinical advances that have been brought about through the use of these procedures Specific disorders addressed include epilepsy aphasia traumatic brain injury multiple sclerosis alcoholism autism schizophrenia and stroke Analyzing what functional imaging has revealed about the causes and mechanisms of sensory motor and cognitive disturbances associated with these conditions the

book also explores implications for improving cognitive rehabilitation More than 60 illustrations including 24 in full color

The Psychology of Attention Elizabeth Styles,2006-10-03 Considers the nature of attention and covers the most recent developments in this field It offers a comprehensive and accessible guide to the complex research of this area that will be essential reading for all levels of students

*Visual Attention in Children* Kenneth A. Lane,2012 In typical child development attention controls many aspects of learning including memory motor control and problem solving Attention organises the constant influx of information that needs to be absorbed by children Inside Visual Attention in Children Dr Kenneth A Lane describes the positive aspects of attention that are needed for children to be successful in the classroom such as concentration and vigilance as opposed to negative aspects that can lead to failure such as distractibility and confusion This book is divided into two parts The first eight chapters of the book explain attention and its relationship to vision and visual stimuli The core topics discussed here include Autism ADHD Dyslexia Executive Function and Memory The second half outlines a Vision Therapy program and consists of activities for improving visual attention in children Over 100 activities are explained and illustrated Visual Attention in Children is anchored on current theories in five areas of attention that shape child development Theories Described Include Focused Attention The ability to respond discreetly to visual auditory and tactile stimuli Selective Attention The ability to maintain behavioural or cognitive abilities in the face of distracting or competing stimuli Shifting Attention The ability to rapidly shift attention from one object to another Sustained Attention The ability to maintain a consistent behavioural response during a continuous or repetitive activity Divided Attention The ability to engage in more than one attention focused task at one time Visual Attention in Children is the perfect tool for occupational therapy students and clinicians as well as other professionals specialising in child development and learning who are looking to enhance their understanding of this topic and who need unique ideas and activities to add to their visual therapy training programs

*Neurology Secrets: First South Asia Edition - E-book* Joseph S. Kass,Eli M. Mizrahi,2016-08-30 Part of the bestselling Secrets Series this updated edition of Neurology Secrets continues to provide an up to date concise overview of the most important topics in neurology today It serves as a comprehensive introduction for medical students physician assistants and nurse practitioners and is also a handy reference and refresher for residents and practitioners Lists tables and clear illustrations throughout expedite review while the engaging Secrets Series format makes the text both enjoyable and readable New lead editors Drs Kass and Mizrahi join this publication from a leading neurology program to lend a fresh perspective and expert knowledge Expedites reference and review with a question and answer format bulleted lists and practical tips from the authors Covers the full range of essential topics in understanding the practice of neurology Features a two color page layout and Key Points boxes to further enhance your reference power Presents Top 100 Secrets for an overview of essential material for last minute study or self assessment Fits comfortably in the pocket of your lab coat to allow quick access to essential information

*The Boundaries of Consciousness: Neurobiology and Neuropathology* Steven



Laureys, 2006-08-24 Consciousness is one of the most significant scientific problems today. Renewed interest in the nature of consciousness, a phenomenon long considered not to be scientifically explorable as well as increasingly widespread availability of multimodal functional brain imaging techniques (EEG, ERP, MEG, fMRI, and PET) now offer the possibility of detailed integrated exploration of the neural, behavioral, and computational correlates of consciousness. The present volume aims to confront the latest theoretical insights in the scientific study of human consciousness with the most recent behavioral, neuroimaging, electrophysiological, pharmacological, and neuropathological data on brain function in altered states of consciousness such as brain death, coma, vegetative state, minimally conscious state, locked-in syndrome, dementia, epilepsy, schizophrenia, hysteria, general anesthesia, sleep, hypnosis, and hallucinations. The interest of this is threefold. First, patients with altered states of consciousness continue to represent a major clinical problem in terms of clinical assessment of consciousness and daily management. Second, the exploration of brain function in altered states of consciousness represents a unique lesional approach to the scientific study of consciousness and adds to the worldwide effort to identify the neural correlate of consciousness. Third, new scientific insights in this field have major ethical and social implications regarding our care for these patients.

**Biomedical Index to PHS-supported Research**, 1995      **Frontiers of Consciousness**

Lawrence Weiskrantz, Martin Davies, 2008-10-16 In recent years, consciousness has become a significant area of study in the cognitive sciences. The *Frontiers of Consciousness* is a major interdisciplinary exploration of consciousness. The book stems from the Chichele lectures held at All Souls College in Oxford and features contributions from a who's who of authorities from both philosophy and psychology. The result is a truly interdisciplinary volume which tackles some of the biggest and most impenetrable problems in consciousness. The book includes chapters considering the apparent explanatory gap between science and consciousness, our conscious experience of emotions such as fear and of willed actions by ourselves and others. It looks at subjective differences between two ways in which visual information guides behaviour and scientific investigation of consciousness in non-human animals. It looks at the challenges that the mind-brain relation presents for clinical practice as well as for theories of consciousness. The book draws on leading research from philosophy, experimental psychology, functional imaging of the brain, neuropsychology, neuroscience, and clinical neurology. Distinctive in its accessibility, authority, and its depth of coverage, *Frontiers of Consciousness* will be a groundbreaking and influential addition to the consciousness literature.

Attention in Cognitive Systems Lucas Paletta, John K. Tsotsos, 2009-02-21 Attention has represented a core scientific topic in the design of AI-enabled systems in the last few decades. Today, in the ongoing debate on design and computational modeling of artificial cognitive systems, attention has gained a central position as a focus of research. For instance, attentional methods are considered in investigating the interfacing of sensory and cognitive information processing for the organization of behaviors and for the understanding of individual and social cognition in infant development. While visual cognition plays a central role in human perception, findings from neuroscience and experimental psychology have

provided strong evidence about the perception action nature of cognition. The embodied nature of sensorimotor intelligence requires a continuous and focused interplay between the control of motor activities and the interpretation of feedback from perceptual modalities. Decision making about the selection of information from the incoming sensory stream in tune with contextual processing on a current task and an agent's global objectives becomes a further challenging issue in attentional control. Attention must operate at interfaces between a bottom-up driven world interpretation and top-down driven information selection, thus acting at the core of artificial cognitive systems. These insights have already induced changes in AI-related disciplines such as the design of behavior-based robot control and the computational modeling of animals. Today the development of enabling technologies such as autonomous robotic systems, miniaturized mobile even wearable sensors and ambient intelligence systems involves the real-time analysis of enormous quantities of data. These data have to be processed in an intelligent way to provide on-time delivery of the required relevant information. Knowledge has to be applied about what needs to be attended to and when and what to do in a meaningful sequence in correspondence with visual feedback.

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