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Attention Objects and Attention Attention, Perception and Memory The Psychology of Attention The Handbook of Attention Attention and Performance XI Cognitive Neuroscience of Attention The Neuropsychology of Attention Effortless Attention Varieties of Attention Attention, Space, and Action Attention and Memory The Psychology of Attention Attention Orienting of Attention Theories of Visual Attention - linking cognition, neuropsychology, and neurophysiology Attention and Cognitive Development Frequency in Language Control of Cognitive Processes Interaction Between Attention and Language Systems in Humans Cognitive Neuroscience of Attention Attention Attention and Implicit Learning Attention in Action Attraction, Distraction and Action Attention Memory and Attention Attention, Memory, and Executive Function Attention and Time Attention and Associative Learning Attention and Performance XVI The Cognitive Neuropsychology of Attention Attention, Representation, and Human Performance Attention, Representation, and Human Performance Consciousness, Attention, and Conscious Attention The Psychology of Attention Attention and Emotion Attention and Arousal, Cognition and Performance The Attentive Brain Cognitive Electrophysiology of Attention

Attention

2009-09-03

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 attention and interaction of attention with other cognitive processes including perception learning and memory the papers cover major research on attention in cognitive neuroscience and cognitive psychology the volume presents recent advances on attention including binding dynamics of attention attention and perceptual organization attention and consciousness emotion and attention development of attention crossmodal attention computational modeling of attention control of actions attention and memory and meditation

Objects and Attention

2001

although attention perception and memory are identifiable components of the human cognitive system this book argues that for a complete understanding of any of them it is necessary to appreciate the way they interact and depend on one another using close examination of experiments studies of patients and evidence from cognitive neuroscience each of these important areas in cognitive psychology is explored in detail and related to its counterparts written by an established author attention perception and memory an integrated introduction explains clearly the evolution and meaning of key terminology and assumptions and puts the different approaches to this field in context

Attention, Perception and Memory

2005

in the past two decades attention has been one of the most investigated areas of research in perception and cognition however the literature on the field contains a bewildering array of findings and empirical progress has not been matched by consensus on major theoretical issues the psychology of attention presents a systematic review of the main lines of research on attention the topics range from perception of threshold stimuli to memory storage and decision making the book develops empirical generalizations about the major issues and suggests possible underlying theoretical principles pashler argues that widely assumed notions of processing resources and automaticity are of limited value in understanding human information processing he

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proposes a central bottleneck for decision making and memory retrieval and describes evidence that distinguishes this limitation from perceptual limitations and limited capacity short term memory

The Psychology of Attention

1999-07-26

an authoritative overview of current research on human attention emphasizing the relation between cognitive phenomena observed in the laboratory and in the real world laboratory research on human attention has often been conducted under conditions that bear little resemblance to the complexity of our everyday lives although this research has yielded interesting discoveries few scholars have truly connected these findings to natural experiences this book bridges the gap between laboratory and life by bringing together cutting edge research using traditional methodologies with research that focuses on attention in everyday contexts it offers definitive reviews by both established and rising research stars on foundational topics such as visual attention and cognitive control underrepresented domains such as auditory and temporal attention and emerging areas of investigation such as mind wandering and embodied attention the contributors discuss a range of approaches and methodologies including psychophysics mental chronometry stationary and mobile eye tracking and electrophysiological and functional brain imaging chapters on everyday attention consider such diverse activities as driving shopping reading multitasking and playing videogames all chapters present their topics in the same overall format historical context current research the possible integration of laboratory and real world approaches future directions and key and outstanding issues contributors richard a abrams lewis baker daphne bavelier virginia best adam b blake paul w burgess alan d castel karen collins mike j dixon sidney k d mello julia föcker charles l folk tom foulsham jonathan a fugelsang bradley s gibson matthias s gobel davood g gozli arthur c graesser peter a hancock kevin a harrigan simone g heideman cristy ho roxane j itier gustav kuhn michael f land mallorie leinenger daniel levin steven j luck gerald matthews daniel memmert stephen monsell meeneley nazarian anna c nobre andrew m olney kerri pickel jay pratt keith rayner daniel c richardson evan f risiko barbara shinn cunningham vivian siu jonathan smallwood charles spence david strayer pedro sztybel benjamin w tatler eric t taylor jeff templeton robert teszka michel wedel blaire j weidler lisa wojtowicz jeremy m wolfe geoffrey f woodman

The Handbook of Attention

2015-11-27

originally published in 1985 this volume presents the proceedings of the 11th international symposium on attention and

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performance with few exceptions the central emphasis in previous meetings of the attention and performance association was on the information processing approach to normal human cognition this emphasis had been supplemented on occasion by studies employing eeg methods but there had not been systematic attempts to relate the information processing approach to work in the neurosciences this volume seeks to emphasize the search for mechanism with such methods of approach as the following anatomical physiological neuropsychological behavioral and computational the editors believed that this was in accord with recent developing trends in cognition and particularly with developments in the study of attention at the time

Attention and Performance XI

2016-09-19

this authoritative reference provides a comprehensive examination of the nature and functions of attention and its relationship to broader cognitive processes the editor and contributors are leading experts who review the breadth of current knowledge including behavioral neuroimaging cellular and genetic studies as well as developmental and clinical research chapters are brief yet substantive offering clear presentations of cutting edge concepts methods and findings the book addresses the role of attention deficits in psychological disorders and normal aging and considers the implications for intervention and prevention it includes 85 illustrations new to this edition significant updates and many new chapters reflecting major advances in the field important breakthroughs in neuroimaging and cognitive modeling chapters on the development of emotion regulation and temperament expanded section on disorders including up to date coverage of adhd as well as chapters on psychopathy and autism chapters on cognitive training and rehabilitation

Cognitive Neuroscience of Attention

2012-01-01

it has been 15 years since the original publication of neuropsychology of attention at the time of its publication attention was a construct that had long been of theoretical interest in the field of psychology and was receiving increased research by cognitive scientists yet attention was typically viewed as a nuisance variable a factor that needed to be accounted for when assessing brain function but of limited importance in its own right there is a need for a new edition of this book within neuropsychology to present an updated and integrated review of what is know about attention the disorders that affect it and approaches to its clinical assessment and treatment such a book will provide perspectives for experimental neuropsychological study of attention and also provide clinicians with insights on how to approach this neuropsychological domain

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The Neuropsychology of Attention

2013-12-11

the phenomena of effortless attention and action and the challenges they pose to current cognitive models of attention and action

Effortless Attention

2010-04-09

to generate coherent behavior the brain needs to attend selectively to the many objects that are present in the environment but this poses several questions how does the brain know which objects belong together how does the information from different senses get combined how does this help to plan and carry out actions the subject of attentional mechanisms has a long history in cognitive psychology as it is the key to making sense of the visual world however new developments in cognitive neuroscience and greater understanding of how attention and action are integrated have transformed the field this book is the first to bring together leading researchers to discuss the convergence of experimental findings in the following areas visual selective attention attention and perceptual integration spatial representation and attention visual attention and action and control of attention attention space and action provides a unique combination of perspectives that will appeal to students and researchers from psychology neuropsychology neurophysiology and neuroanatomy

Varieties of Attention

1984

attention and memory brings together and assesses past and present research on information processing to formulate a model of this entire system

Attention, Space, and Action

1999

2023-10-05

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this textbook charts the development of the psychology of attention since the 1950s through the examination of a variety of tasks considered to involve attentional behaviour together with evidence from studies of patients neurophysiology and

Attention and Memory

1998-01-15

the authors provide a balance between a readable overview of attention and an emphasis on how theories and paradigms for the study of attention have developed it is an ideal text for advanced undergraduate and graduate students in psychology

The Psychology of Attention

1997

this book is a succinct introduction to the orienting of attention richard wright and lawrence ward describe the covert orienting literature clearly and concisely illustrating it with numerous high quality images specifically designed to make the challenging theoretical concepts very accessible the book begins with an historical introduction that provides a great deal of information about orienting much of which will be new even to seasoned researchers wright and ward then systematically describe the development of various experimental paradigms that have been devised to study covert orienting and the theoretical issues raised by this research one trend that they analyze in detail is the progression from relatively simple models of spatial attention attention spotlight and zoom lens models to an integrative computational framework based on a concept called the activity distribution they also present a comprehensive survey of cognitive neuroscience research on the brain mechanisms underlying spatial attention shifts as well as a chapter summarizing recent research on crossmodal attention shifts and elucidating the links between attention orienting in the visual auditory and tactile domains in the epilogue they offer a concise summary of the book and develop preliminary frameworks for understanding the relationship between spatial attention and orienting in response to social cues social cognitive neuroscience and for describing the evolution of covert orienting orienting of attention provides a systematic survey that is ideal for those looking for an accessible introduction to the field and also for students and researchers who want a state of the art overview

Attention

2004

the neural theory of visual attention of Bundesen, Habekost and Kyllingsbæk (2005) was proposed as a neural interpretation of Bundesen's (1990) theory of visual attention. TVA (in NTVA) visual attention functions via two mechanisms: by dynamic remapping of receptive fields of cortical cells such that more cells are devoted to behaviorally important objects than to less important ones; filtering and by multiplicative scaling of the level of activation in cells coding for particular features. Pigeonholing NTVA accounts for a wide range of known attentional effects in human performance and a wide range of effects observed in firing rates of single cells in the primate visual system and thus provides a mathematical framework to unify the 2 fields of research in this research topic. In *Frontiers in Psychology*, some of the leading theories of visual attention at both the cognitive, neuropsychological and neurophysiological levels are presented and evaluated. In addition, the research topic encompasses application of the framework of NTVA to various patient populations and to neuroimaging as well as genetic and psychopharmacological studies.

Orienting of Attention

2008-04-16

My experience is what I agree to attend to. Wrote William James (1890) nearly a century ago in his *Principles of Psychology* although certainly not the first to recognize the importance of attention in man's experience. Poets and philosophers throughout history have touched upon the concept in one way or another. James deserves credit for having accorded attention a central role in the systematic study of the mind with the advancement of psychology since that time. Except during the behaviorist digression, the concept of attention has been an integral part of many prominent theories dealing with learning, thinking and other aspects of cognitive functioning. Indeed, attention is an important determinant of experience from birth throughout development. This has been an implicit assumption underlying our view of cognition since the writings of Charles Darwin (1897) and Wilhelm Preyer (1888) as well as James, all of whom offered provocative insights about the developing child's commerce with the environment. Although systematic research on attention in children was slow to pick up during the early part of this century, interest in the developmental study of attention has expanded enormously in recent years.

Theories of Visual Attention - linking cognition, neuropsychology, and neurophysiology

2015-09-02

re examines frequency entrenchment and salience three foundational concepts in usage based linguistics through the prism of learning memory and attention

Attention and Cognitive Development

2012-12-06

the thirty two contributions discuss evidence from psychological experiments with healthy and brain damaged subjects functional imaging electrophysiology and computational modeling

Frequency in Language

2019-10-10

this original volume examines the interface between attentional and linguistic processes in humans from the perspectives of psycholinguistics and cognitive science it systematically explores how autonomy and automaticity are reflected during language processing in a variety of situations a true mechanistic explanation of how humans process language would require a complete understanding of the interface language has with important cognitive systems like attention memory as well as with vision interdisciplinary work in this area has so far not been able to generate a substantial theoretical position on this issue this volume therefore looks at different language processing domains such as speaking listening reading as well as discourse and text processing to evaluate the role attention plays in such performances and also at how often linguistic inputs affect attentional processing in this sense it proposes that the attention language interface is bidirectional it also considers applied issues like language disorders bilingualism and illiteracy where the attention language interface seems especially relevant as a theoretical apparatus for research investigations therefore this volume brings closer theoretical explanations from the language sciences and cognitive sciences it argues that language processing is multi modal in its very essence and many conceptual structures in language evolve out of a complex interplay among participating cognitive systems such as

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attention and memory supported by vision and audition

Control of Cognitive Processes

2000

this volume describes research and theory concerning the cognitive neuroscience of attention filling a key gap it emphasizes developmental changes that occur in the brain attention relationship in infants children and throughout the lifespan and reviews the literature on attention development and underlying neural systems in a comprehensive manner special features include a new model of the neural control of eye movements a developmental perspective on the burgeoning literature on the cognitive neuroscience of attention the integration of ideas research and theories across chapters within each section via summary and commentary essays and a summary of the most recent work in the developmental cognitive neuroscience of attention by several of the leading researchers in this field

Interaction Between Attention and Language Systems in Humans

2015-10-09

contributors from psychology and engineering consider theories of human attention methods of researching it and ways to improve attention or account for the lack of it in various contexts

Cognitive Neuroscience of Attention

1998-04-01

attention and implicit learning provides a comprehensive overview of the research conducted in this area the book is conceived as a multidisciplinary forum of discussion on the question of whether implicit learning may be depicted as a process that runs independently of attention the volume also deals with the complementary question of whether implicit learning affects the dynamics of attention and it addresses these questions from perspectives that range from functional to neuroscientific and computational approaches the view of implicit learning that arises from these pages is not that of a mysterious faculty but rather that of an elementary ability of the cognitive systems to extract the structure of their environment as it appears directly through experience and regardless of any intention to do so implicit learning thus is taken to be a process that may

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shape not only our behavior but also our representations of the world our attentional functions and even our conscious experience series b

Attention

2007

over the past forty years much work has assessed how attention modulates perception but relatively little work has evaluated the role of attention in action this is despite the fact that recent research indicates that the relation between attention and action is a crucial factor in human performance attention in action provides state of the art discussion of the role of attention in action and of action in constraining attention the research takes an interdisciplinary approach covering experimental studies of attention and action neuropsychological studies of patients with impaired action and attention single cell studies of cross modal links in attention and action and brain imaging studies on the underlying neural circuitry contributions from prominent international researchers both review the field and present new evidence making this book an invaluable resource for researchers and therapists alike

Attention and Implicit Learning

2003

over the last decade there has been a spate of research on the empirical phenomenon known as attentional capture interest in capture can be attributed not only to its applied significance but also to the implications of the phenomenon for theories of selective attention as well as cognitive control in general this growing interest however has also spawned a wide variety of experimental paradigms empirical results and theoretical perspectives in june of 2000 40 experimental psychologists converged on villanova university for a conference and workshop on attentional capture the intent was to provide an intimate forum for scientists from diverse perspectives and backgrounds and using diverse methodologies to present their research on attentional capture and also engage in small group discussions on such key issues as the definition measurement and theoretical treatment of attention capture this book presents a collection of chapters based on those presentations and discussions chapters are organized around areas such as neuroscience visual cognition developmental individual differences and dynamical systems the volume provides a summary of the latest cutting edge research an important compass for future research in this area a useful survey of the field contributions from internationally recognized experts in attention due to its exclusive focus on the topic of attentional capture the volume should make an excellent supplemental text or reference book for advanced undergraduate or

graduate seminars in cognitive psychology and attention

Attention in Action

2004-11-01

attention is a fundamental feature of the mind yet has languished in the backwaters of philosophy recent years however have witnessed a resurgence of philosophical interest in attention driven by recognition that it is closely connected to consciousness perception agency thought justification and introspection as is becoming clear attention has a rich philosophical significance this is the first book to provide a systematic overview and assessment of different empirical and philosophical aspects of attention wayne wu discusses the following central topics and problems major experiments and theories of attention in psychology since the 1950s the neuroscience of attention including basic mechanisms and models attention s intimate relation to agency the phenomenology of attention attention as a gatekeeper for consciousness attention as the basis for perception based thought about objects the role of attention in the justification of belief attention in introspection of consciousness a key feature of the book is its skilful analysis of the empirical work on attention and how this relates to philosophy additional features include chapter summaries annotated further reading and a glossary making this an ideal starting point for anyone studying attention for the first time as well as being suitable for more advanced students and researchers in psychology cognitive science and philosophy

Attraction, Distraction and Action

2001-11-30

from a 1994 working conference at the national institutes of health rockville maryland researchers in psychology neuropsychology special education and medicine present theory and research on three central cognitive processes attention memory and executive function and explain how their findings can help clinicians assess and remediate reading and attention disorders annotation copyright by book news inc portland or

Attention

2014-04-24

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our ability to attend selectively to our surroundings taking notice of the things that matter and ignoring those that don't is crucial if we are to negotiate the world around us in an efficient manner several aspects of the temporal dimension turn out to be critical in determining how we can put together and select the events that are important to us as they themselves unfold over time for example we often miss events that happen while we are occupied perceiving or responding to another stimulus on the other hand temporal regularity between events can also greatly improve our perception in addition our perception of the passage of time itself can also be distorted as while we are performing actions or paying attention to different aspects of the environment surprisingly this fascinating and fundamental interplay between attention and time has been relatively neglected in the psychology and neuroscience literatures until very recently attention time is the first book to address this foundational topic bringing together several intriguing and hitherto fragmented findings into a compelling and cohesive field of enquiry the book contains thirty one critical review chapters from internationally recognised experts in the field carefully organised into three stand alone yet extensively cross referenced themed sections each section focuses on distinct ways in which attention and time influence one another these sections each encompassing a range of methodologies from classical cognitive psychology to single cell neurophysiology provide functionally unifying frameworks to help guide the reader through the many various experimental and theoretical approaches adopted section 1 considers variations of attention across time and explores how attentional allocation is limited by very short or very long intervals of time section 2 describes several types of temporal illusion illustrating how attention can modulate the perception of the passage of time itself a watched pot never boils and conversely time flies when you're having fun nicely capture the experimental observation that the degree of attention allocated to stimulus timing contributes to its subjective duration finally section 3 examines how attention can be directed in time to predictable or expected moments in time so as to optimise behaviour bringing conceptually discrete yet functionally related fields of temporal attention research together within a single volume this book provides a comprehensive overview that will be of value to the interested novice in cognitive neuroscience whilst also inspiring experts in the field to make perhaps previously overlooked links with their own field of research

Memory and Attention

1976

this book brings together leading international learning and attention researchers to provide both a comprehensive and wide ranging overview of the current state of knowledge of this area as well as new perspectives and directions for the future

Attention, Memory, and Executive Function

1996

the contributions to this volume the sixteenth in the prestigious attention and performance series revisit the issue of modularity the idea that many functions are independently realized in specialized autonomous modules although there is much evidence of modularity in the brain there is also reason to believe that the outcome of processing across domains depends on the synthesis of a wide range of constraining influences the twenty four chapters in attention and performance xvi look at how these influences are integrated in perception attention language comprehension and motor control they consider the mechanisms of information integration in the brain examine the status of the modularity hypothesis in light of efforts to understand how information integration can be successfully achieved and discuss information integration from the viewpoints of psychophysics physiology and computational theory a bradford book attention and performance series

Attention and Time

2010

the theme of this special issue is one that is ill served by the existing neuropsychological literature a publication that collates reviews of the developmental physiological clinical and cognitive aspects of this topic is therefore timely and would prove valuable to clinicians researchers and students alike the underlying problem addressed by the invited contributors is how attention is manifest in the intact brain and how disorders of attention present themselves in the damaged brain the topics to be covered will range from the physiology of attention as revealed by single unit recording studies of extra striate cortex of monkeys and pet scans in humans and low frequency eeg recordings to disorders of attention after brain damage e g stroke and chronic pathological disorders of the brain e g dyslexia and mental retardation the range of contributions to the special issue demonstrates that the kinds of attentional processing required are determined by the task in hand correspondingly the volume discusses attention in the parietal temporal and frontal lobes of the human and macaque brain investigated by clinical electrophysiological and behavioural methods attentional processes are also shown to be distributed in the brain and the effects of diminished attentional capacities which do not result from focal brain lesions are discussed in the context of mental retardation and dyslexia

Attention and Associative Learning

2010

this volume presents a rare occasion where scholars from europe north africa and north america share their research programs and findings revolving around an important theme integration despite different research foci and methodologies there is a strong consensus that we need to understand a psychological phenomenon in all its complexity involving its neural psychological and social dimensions involving perception and conception and decision processes involving motivation emotion and cognition all in complex interaction this volume is intended to reach out to basic and applied psychological researchers cognitive and affective scientists learning scientists biologists sociologists neuropsychological researchers and philosophers who have an interest in an integrated understanding of the mind at work particularly pertaining to explanations of real life phenomena that have social and practical significance a distinct feature of this volume is that most research involved is heavily built on neuropsychological evidence while loyal to the experimental tradition with its focus on functional behavior in various situations and conditions that mimic or resemble real life the viability of this approach to doing cutting edge research that is relevant and applicable to many real life phenomena should also make this body of research useful for a wide range of human endeavor from religion education to industrial and organizational psychology

Attention and Performance XVI

1996

this volume is intended to reach out to basic and applied psychological researchers cognitive and affective scientists learning scientists biologists sociologists neuropsychological researchers and philosophers who have an interest in an integrated understanding of the mind at work particularly pertaining to explanations of real life phenomena that have social and practical significance provided by publisher

The Cognitive Neuropsychology of Attention

1994

a rigorous analysis of current empirical and theoretical work supporting the argument that consciousness and attention are largely dissociated in this book carlos montemayor and harry haladjian consider the relationship between consciousness and

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attention the cognitive mechanism of attention has often been compared to consciousness because attention and consciousness appear to share similar qualities but Montemayor and Haladjian point out attention is defined functionally whereas consciousness is generally defined in terms of its phenomenal character without a clear functional purpose they offer new insights and proposals about how best to understand and study the relationship between consciousness and attention by examining their functional aspects the book's ultimate conclusion is that consciousness and attention are largely dissociated undertaking a rigorous analysis of current empirical and theoretical work on attention and consciousness Montemayor and Haladjian propose a spectrum of dissociation a framework that identifies the levels of dissociation between consciousness and attention ranging from identity to full dissociation they argue that conscious attention the focusing of attention on the contents of awareness is constituted by overlapping but distinct processes of consciousness and attention conscious attention they claim evolved after the basic forms of attention increasing access to the richest kinds of cognitive contents Montemayor and Haladjian's goal is to help unify the study of consciousness and attention across the disciplines a focused examination of conscious attention will they believe enable theoretical progress that will further our understanding of the human mind

Attention, Representation, and Human Performance

2012-05-04

views on attention have undergone continuous evolution since the early work of the 1950s since that time the questions asked about attention consciousness and control have changed and evidence drawn into the debate comes not only from experimental psychology but also from neurophysiology neuropsychology and computational modelling as evidence has accumulated theories have changed and fundamental assumptions have been challenged rather than asking what is attention people now consider why does attentional behaviour appear the way it is this textbook charts the development of these ideas through the examination of a variety of tasks considered to involve attentional behaviour together with evidence from studies of patients neurophysiology and cognitive modelling after a consideration of what attention might be and whether it is a cause or an effect this book describes and discusses work on selective auditory attention it also deals with problems of divided attention task combination automaticity and intentional control selection for action conscious and unconscious processing in both normal experimental subjects and neuropsychological patients and neuropsychological and computational aspects of attention

Attention, Representation, and Human Performance

2012

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this text critically reviews the literature on attention and emotion and offers an integrative cognitive attentional model of the development and maintenance of emotional disorders it highlights the similarities and differences between disorders and offers specific new treatment implications the book contains numerous summary sections so that readers less familiar with the cognitive literature can follow the main issues without being overwhelmed the central aims of this work are to review critically models of attention and their application to attentional processes in emotional disorders to develop an integrative theoretical framework and model for conceptualizing attentional processes associated with the aetiology and maintenance of emotional stress reactions and to discuss the implications for clinical practice of attentional theories of emotional dysfunction

Consciousness, Attention, and Conscious Attention

2024-06-11

of the myriad tasks that the brain has to perform perhaps none is as crucial to the performance of other tasks as attention a central thesis of this book on the cognitive neuroscience of attention is that attention is not a single entity but a finite set of brain processes that interact mutually and with other brain processes in the performance of perceptual cognitive and motor skills after an introductory part i the book consists of three parts part ii methods describes the major neuroscience methods including techniques used only with animals anatomical tract tracing single unit electrophysiology neurochemical manipulations noninvasive human brain imaging techniques erps positron emission tomography and functional magnetic resonance imaging and studies with brain damaged individuals this part also includes a chapter on the computational modeling of attention part iii varieties of attention looks at three major components of attention from the cognitive neuroscience perspective selection vigilance and control it also discusses links to memory and language finally part iv development and pathologies discusses the application of findings from the previous sections to the analysis of normal and abnormal development and to pathologies of attention such as schizophrenia and attention deficit disorders contributors edward awh gordon c baylis jochen braun dennis cantwell vincent p clark maurizio corbetta susan m courtney francis crinella matthew c davidson gregory j digirolamo jon driver jane emerson pauline filipek ira fischler massimo girelli pamela m greenwood james v haxby mark h johnson john jonides julian s joseph robert t knight christof koch steven j luck richard t marrocco brad c motter ken nakayama orhan nalcioglu paul g nestor ernst niebur brian f o donnell raja parasuraman michael i posner robert d rafal trevor w robbins lynn c robertson judi e see james swanson diane swick don tucker leslie g ungerleider joel s warm maree j webster sharon wigal

The Psychology of Attention

1997-10-16

cognitive electrophysiology of attention explores the fundamental mechanisms of attention and related cognitive functions from cognitive neuroscience perspectives attention is an essential cognitive ability that enables humans to process and act upon relevant information while ignoring distracting information and the capacity to focus attention is at the core of mental functioning understanding the neural bases of human attention remains a key challenge for neuroscientists and psychologists and is essential for translational efforts to treat attentional deficits in a variety of neurological and psychiatric disorders cognitive electrophysiology is at the center of a multidisciplinary approach that involves the efforts of psychologists neuroscientists neuropsychologists psychiatrists and neurologists to identify basic brain mechanisms and develop translational approaches to improve mental health this edited volume is authored by leading investigators in the field and discusses methods focused on electrophysiological recordings in humans including electroencephalography eeg and event related potential erp methods and also incorporates evidence from functional magnetic resonance imaging fmri cognitive electrophysiology of attention illuminates specific models about attentional mechanisms in vision audition multisensory integration memory and semantic processing in humans provides an exhaustive overview of attention processes going from normal functioning to the pathological and using a combination of methodological tools an important reference for electrophysiology researchers looking at underlying attention processes rather than the methods themselves enables researchers across a broad range of cognitive process and methodological specialties to stay current on particular hypotheses findings and methods edited and authored by the worldwide leaders in the field affording the broadest most expert coverage available

Attention and Emotion

2016-01-28

Attention and Arousal, Cognition and Performance

1982

The Attentive Brain

2000

Cognitive Electrophysiology of Attention

2013-10-22

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