Neurosciences Et Cognition Perspectives Pour Les

Neurosciences et cognition Pierre-André Doudin,Eric Tardif.2016-02-19 Cet ouvrage fait le point sur les débats actuels à propos de la pertinence d'une collaboration entre les neurosciences cognitives et les sciences de l'éducation, notamment en ce qui concerne le langage, la mémoire, l'attention, le raisonnement, l'apprentissage et les troubles qui lui sont liés. Les auteurs parmi les plus prestigieux (Canadiens, Américains, Français, Suisses) donnent un aperçu général des résultats de recherches récentes et font le point sur de nouvelles avancées en neurosciences cognitives en lien avec les sciences de l'éducation. Bien que prometteuse, cette collaboration entre neurosciences, sciences cognitives et sciences de l'éducation comporte plusieurs obstacles (attentes irréalistes ; interprétations abusives de résultats de recherche ; fausses croyances qui ont profondément pénétré le milieu des enseignants et des formateurs d'enseignants dans différents pays). L'ouvrage rend attentif à de telles dérives. La diversité des sujets traités rencontrera l'intérêt tant des psychologues que des étudiants à l'enseignement, des enseignants, des formateurs d'enseignants et des chercheurs en éducation et en psychologie de l'éducation.
Neurological Foundations of Cognitive Neuroscience Mark D'Esposito.2003 Despite dramatic advances in neuroimaging techniques, patient-based analyses of brain disorders continue to offer important insights into the functioning of the normal brain. Bridging the gap between the work of neurologists studying clinical disorders and neuroscientists studying the neural mechanisms underlying normal cognition, this book reviews classical neurobehavioral syndromes from both neurological and cognitive scientific perspectives. (Midwest).
Mind and Motion: The Bidirectional Link between Thought and Action Markus Raab,Joseph Johnson,Hauke Heekeren.2009-05-27 This volume investigates the implications of how our brain directs our movements on decision making. An extensive body of knowledge in chapters from international experts is presented as well as integrative group reports discussing new directions for future research. The understanding of how people make decisions is of central interest to experts working in fields such as psychology, economics, movement science, cognitive neuroscience, neuroinformatics, robotics, and sport science. For the first time the current volume provides a multidisciplinary overview of how action and cognition are integrated in the planning of and decisions about action. * Offers intense, focused, and genuine interdisciplinary perspective * Conveys state-of-the-art and outlines future research directions on the hot topic of mind and motion (or embodied cognition) * Includes contributions from psychologists, neuroscientists, movement scientists, economists, and others
Handbook of Cognitive Neuroscience Michael S. Gazzaniga.2014-11-14
Discussing Cognitive Neuroscience Gerhard Benetka,Hans Werbik.2021-05-21 The sciences philosophy, psychology and neuroscience share the basis that all refer to the human being. Therefore, an interdisciplinary collaboration would be desirable. The exchange of criticism is an essential requirement for interdisciplinary collaboration. Criticism must be heard and – if possible – considered. Indeed, criticism can be valid or unwarranted. However, whether criticism is unwarranted can only emerge from discussion and conversation. In the discussion of cognitive neuroscience, some criticism can easily be considered (such as the mereological fallacy that represents that talking about the person is substituted with talking bout the brain). Another issue for an interdisciplinary discussion of cognitive neuroscience is the interpretation of the readiness potential including re-considering Benjamin Libet's classic experiments. Additionally, a critical discussion on cognitive neuroscience must address ethical questions, such as the possibility of the abuse of neuroscientific insight.
Critical Neuroscience Suparna Choudhury,Jan Slaby.2016-08-08 Critical Neuroscience: A Handbook of the Social and Cultural Contexts of Neuroscience brings together multi-disciplinary scholars from around the world to explore key social, historical and philosophical studies of neuroscience, and to analyze the socio-cultural implications of recent advances in the field. This text's original, interdisciplinary approach explores the creative potential for engaging experimental neuroscience with social studies of neuroscience while furthering the dialogue between neuroscience and the disciplines of the social sciences and humanities. Critical Neuroscience transcends traditional skepticism, introducing novel ideas about 'how to be critical' in and about science.
Reliability in Cognitive Neuroscience William R. Uttal.2013 Cognitive neuroscientists increasingly claim that brain images generated by new brain imaging technologies reflect, correlate, or represent cognitive processes. This book warns against these claims, arguing that, despite its utility in anatomic and physiological applications, brain imaging research has not provided consistent evidence for correlation with cognition. It bases this argument on a review of the empirical literature, pointing to variability in data not only among subjects within individual experiments but also in the meta-analytical approach that pools data from different experiments.
Neurosciences cognitives développementales Nicolas Poirel.2020-09-07 Le seul manuel qui fasse le lien entre la psychologie et les neurosciences. Le champ de la psychologie s'est incroyablement étendu et diversifié depuis que les sciences cognitives ont fait leur apparition, à tel point qu'il devient difficile, pour l'étudiant, de se repérer parmi les multiples disciplines. Quel est le rapport entre processus psychologiques et réseaux neuronaux ? Comment se traduisent les soubassements neurologiques dans la psychologie des individus ? Autant de questions auxquelles répond ce livre organisé selon les principales fonctions psychologiques : l'action, l'attention, le langage, la mémoire et la perception, leurs soubassements neurobiologiques, leurs dysfonctionnements pathologiques ainsi que leur remédiation thérapeutique. Pour chaque fonction, les auteurs précisent : La description et l'action de la fonction Ses sous-bassement neurologique Les troubles liés Les bilans et remédiations dédiés aux troubles
Handbook of Cognitive Science Paco Calvo,Toni Gomila.2008-11-05 The Handbook of Cognitive Science provides an overview of recent developments in cognition research, relying upon non-classical approaches. Cognition is explained as the continuous interplay between brain, body, and environment, without relying on classical notions of computations and representation to explain cognition. The handbook serves as a valuable companion for readers interested in foundational aspects of cognitive science, and neuroscience and the philosophy of mind. The handbook begins with an introduction to embodied cognitive science, and then breaks up the chapters into separate sections on conceptual issues, formal approaches, embodiment in perception and action, embodiment from an artificial perspective, embodied meaning, and emotion and consciousness. Contributors to the book represent research overviews from around the globe including the US, UK, Spain, Germany, Switzerland, France, Sweden, and the Netherlands.
International Perspectives on Psychological Science: Cognition and neuropsychology Peter A. Frensch,Ralf Schwarzer.2010 Cognition and Neuropsychology is dedicated to summarizing and characterizing the current scientific research in three substantive content areas, (i) Perception, Attention, and Action, (ii) Social Cognition, and (iii) Learning, Memory, and Development. While some of the contributions focus on relatively narrow areas of research, others adopt a much broader stance, trying to understand and explain many different facets of behaviour across widely differing situations. Some contributions even try to bridge the fundamental gap between behaviour and genetics. The final part contains two chapters that discuss fundamental general issues in psychology, such as the fate of mentalism and the significance of phenomenal analyses. All chapters offer fascinating insights into current theorizing on the mind, and are written by some of the best-known scholars of our time. --
The New Cognitive Neurosciences Michael S. Gazzaniga.2000 This second edition reflects the many advances that have taken place in this field, particularly in imaging and recording techniques. The majority of the chapters in this edition of The Cognitive Neurosciences are new, and those from the first edition have been rewritten and updated.
Micro-, Meso- and Macro-Dynamics of the Brain György Buzsáki,Yves Christen.2016-05-02 This book brings together leading investigators who represent various aspects of brain dynamics with the goal of presenting state-of-the-art current progress and address future developments. The individual chapters cover several fascinating facets of contemporary neuroscience from elementary computation of neurons, mesoscopic network oscillations, internally generated assembly sequences in the service of cognition, large-scale neuronal interactions within and across systems, the impact of sleep on cognition, memory, motor-sensory integration, spatial navigation, large-scale computation and consciousness. Each of these topics

require appropriate levels of analyses with sufficiently high temporal and spatial resolution of neuronal activity in both local and global networks, supplemented by models and theories to explain how different levels of brain dynamics interact with each other and how the failure of such interactions results in neurologic and mental disease. While such complex questions cannot be answered exhaustively by a dozen or so chapters, this volume offers a nice synthesis of current thinking and work-in-progress on micro-, meso- and macro- dynamics of the brain.
History of Cognitive Neuroscience M. R. Bennett,P. M. S. Hacker.2012-08-15 History of Cognitive Neuroscience documents the major neuroscientific experiments and theories over the last century and a half in the domain of cognitive neuroscience, and evaluates the cogency of the conclusions that have been drawn from them. Provides a companion work to the highly acclaimed Philosophical Foundations of Neuroscience - combining scientific detail with philosophical insights Views the evolution of brain science through the lens of its principal figures and experiments Addresses philosophical criticism of Bennett and Hacker's previous book Accompanied by more than 100 illustrations
The Human Sciences after the Decade of the Brain Jon Leefmann,Elisabeth Hildt.2017-02-09 The Human Sciences after the Decade of the Brain brings together exciting new works that address today's key challenges for a mutual interaction between cognitive neuroscience and the social sciences and humanities. Taking up the methodological and conceptual problems of choosing a neuroscience approach to disciplines such as philosophy, history, ethics and education, the book deepens discussions on a range of epistemological, historical, and sociological questions about the neuro-turn in the new millennium. The book's three sections focus on (i) epistemological questions posed by neurobiologically informed approaches to philosophy and history, (ii) neuroscience's influence on explanations for social and moral behavior, and (iii) the consequences of the neuro-turn in diverse sectors of social life such as science, education, film, and human self-understanding. This book is an important resource both for students and scholars of cognitive neuroscience and biological psychology interested in the philosophical, ethical, and societal influences of—and on—their work as well as for students and scholars from the social sciences and humanities interested in neuroscience. Explores the recent influence of neuroscience on the humanities and social sciences and how they respond to these influences Offers in-depth analysis of the theoretical and practical influence of a brain-centered scientific view in diverse areas of the social sciences including economics, education, cultural studies, and philosophy Investigates contributions of the history of science to scrutinizing current neuroscience–based approaches to social and moral behavior
Wet Mind Stephen Michael Kosslyn,Olivier Koenig.1992 The last dizzying decade of work in neurobiology, artificial intelligence, cognitive science and medicine has begun to part the veil on the secrets of the brain's operation. Kosslyn and Koenig put these new developments in perspective in this accessible introduction to the mind/brain structure. Illustrated.
Society, Organizations and the Brain: building towards a unified cognitive neuroscience perspective Carl Senior,Nick Lee,Sven Braeutigam.2015-07-02 This e-book brings together scholars in both the neurosciences and organizational sciences who have adopted various approaches to study the cognitive mechanisms mediating the social behavior that we see within organizations. Such an approach has been termed by ourselves, and others, as 'organisational cognitive neuroscience'. In recent years there has been a veritable increase in studies that have explored the cognitive mechanisms driving such behaviors, and much progress has been made in understanding the neural underpinnings of processes such as financial exchange, risk awareness and even leadership. However, while these studies are informative and add to our understanding of human cognition they fall short of providing evidence-based recommendations for practice. Specifically, we address the broader issue of how the neuroscientific study of such core social behaviors can be used to improve the very way that we work. To address these gaps in our understanding the chapters in this book serve as a platform that allows scholars in both the neurosciences and the organizational sciences to highlight the work that spans across these two fields. The consolidation of these two fields also serves to highlight the utility of a singular organizational cognitive neuroscience. This is a fundamentally important outcome of the book as the application of neuroscience to address economically relevant behaviors has seen a variety of fields evolve in their own right, such as neuromarketing, neuroeconomics and so forth. The use of neuro-scientific technologies,in particular fMRI, has indeed led to a bewildering (and somewhat suffocating) proliferation of new approaches, however, the speed of such developments demands that we must proceed carefully with such ventures or risk some fundamental mistakes. The book that you now hold will consolidates these new neuroscience based approaches and in doing so highlight the importance of this approach in helping us to understand human social behavior in general. Taken together the chapters provide a framework for scholars within the neurosciences who wish to explore the further the opportunities that the study of organisational behavior may provide.
Cognitive Biology Luca Tommasi,Mary A. Peterson,Lynn Nadel.2009 In the past few decades, sources of inspiration in the multidisciplinary field of cognitive science have widened. In addition to ongoing vital work in cognitive and affective neuroscience, important new work is being conducted at the intersection of psychology and the biological sciences in general. This volume offers an overview of the cross-disciplinary integration of evolutionary and developmental approaches to cognition in light of these exciting new contributions from the life sciences. This research has explored many cognitive abilities in a wide range of organisms and developmental stages, and results have revealed the nature and origin of many instances of the cognitive life of organisms. Each section of this book deals with a key domain of cognition: spatial cognition; the relationships among attention, perception, and learning, representations of numbers and economic values; and social cognition. Contributors discuss each topic from the perspectives of psychology and neuroscience, brain theory and modeling, evolutionary theory, ecology, genetics, and developmental science.
Psychose, langage et action Nicolas Franck,Christian Hervé,Jacques Rozenberg.2009-11-17 Cet ouvrage est né d'un colloque interdisciplinaire et international ayant eu lieu le 8 avril 2008 à l'Institut des Sciences Cognitives de Bron. Il articule les connaissances neuroscientifiques aux données psychopathologiques, en privilégiant les notions d'action, de langage et d'imaginaire, dans le cadre d'une approche épistémologique et éthique des psychoses. Il s'appuie sur les données les plus récentes de la neuro-imagerie, de la psychopathologie cognitive, de la neurolinguistique et des théories de l'action. Il ne juxtapose pas des perspectives scientifiques cloisonnées, mais s'attache à définir un cadre théorique commun. L'articulation des données empiriques avec une réflexion épistémologique ou philosophique ne permet, certes, pas encore la construction d'un modèle psychopathologique intégratif, mais elle éclaire la compréhension du fonctionnement mental et celle du fonctionnement psychotique. La psychiatrie bénéficie largement de l'apport de plusieurs disciplines fondamentales et ne peut même se situer qu'à leur point de convergence. Le fonctionnement mental doit être abordé à plusieurs niveaux distincts n'entrant pas mutuellement en compétition. Cet ouvrage transdisciplinaire réunit l'apport des meilleurs spécialistes dans les domaines concernés. Une diversité d'approche a permis aux sciences cognitives d'approfondir la compréhension de l'esprit. Dans ce cadre conceptuel, la psychiatrie et les neurosciences se sont enrichies conceptuellement, avec d'importants bénéfices pour les personnes souffrant de troubles mentaux en termes de compréhension théorique et d'applications thérapeutiques.
Cognitive Neuroscience Michael D. Rugg.2013-04-15 Providing up-to-date and authoritative coverage of key topics in the new discipline of cognitive neuroscience, this book will be essential reading in cognitive psychology, neuropsychology and neurophysiology. Striking a balance between theoretical and empirical approaches to the question of how cognition is supported by the brain, it presents the major experimental methods employed by cognitive neuroscientists and covers a representative range of the subjects currently exciting interest in the field. The nine chapters of the book have been written by leading authorities in their fields. The individual chapters provide state-of-the-art reviews of their respective attempts to build bridges between domains of enquiry that, until quite recently, were largely independent of one another. The chapters include two describing the different methods that are now available for non-invasive measurement of human brain activity; another two that discuss various current theoretical approaches to the problem of how information is coded in the nervous system; and single contributions dealing with the neural mechanisms of long-term memory and of movement, the functional and neural architecture of working memory, the organization of language in the brain, and the relationship between perception and consciousness. Cognitive Neuroscience will appeal to advanced undergraduate and graduate students interested in the relationship between the brain and higher mental functions, as well as to established researchers in cognitive neuroscience and related fields.
Perspective Taking: building a neurocognitive framework for integrating the "social" and the "spatial" Klaus Kessler,Sarah H Creem-Regehr,Antonia Hamilton.2015-06-08 Background: Interacting with other people involves spatial awareness of one's own body and the other's body and viewpoint. In

the past, social cognition has focused largely on belief reasoning, which is abstracted away from spatial and bodily representations, while there is a strong tradition of work on spatial and object representation which does not consider social interactions. These two domains have flourished independently. A small but growing body of research examines how awareness of space and body relates to the ability to interpret and interact with others. This also builds on the growing awareness that many cognitive processes are embodied, which could be of relevance for the integration of the social and spatial domains: Online mental transformations of spatial representations have been shown to rely on simulated body movements and various aspects of social interaction have been related to the simulation of a conspecific's behaviour within the observer's bodily repertoire. Both dimensions of embodied transformations or mappings seem to serve the purpose of establishing alignment between the observer and a target. In spatial cognition research the target is spatially defined as a particular viewpoint or frame of reference (FOR), yet, in social interaction research another viewpoint is occupied by another's mind, which crucially requires perspective taking in the sense of considering what another person experiences from a different viewpoint. Perspective taking has been studied in different ways within developmental psychology, cognitive psychology, psycholinguistics, neuropsychology and cognitive neuroscience over the last few decades, yet, integrative approaches for channelling all information into a unified account of perspective taking and viewpoint transformations have not been presented so far. Aims: This Research Topic aims to bring together the social and the spatial, and to highlight findings and methods which can unify research across areas. In particular, the topic aims to advance our current theories and set the stage for future developments of the field by clarifying and linking theoretical concepts across disciplines. Scope: The focus of this Research Topic is on the SPATIAL and the SOCIAL, and we anticipate that all submissions will touch on both aspects and will explicitly attempt to bridge conceptual gaps. Social questions could include questions of how people judge another person's viewpoint or spatial capacities, or how they imagine themselves from different points of view. Spatial questions could include consideration of different physical configurations of the body and the arrangement of different viewpoints, including mental rotation of objects or viewpoints that have social relevance. Questions could also relate to how individual differences (in personality, sex, development, culture, species etc.) influence or determine social and spatial perspective judgements. Many different methods can be used to explore perspective taking, including mental chronometry, behavioural tasks, EEG/MEG and fMRI, child development, neuropsychological patients, virtual reality and more. Bringing together results and approaches from these different domains is a key aim of this Research Topic. We welcome submissions of experimental papers, reviews and theory papers which cover these topics.

Neurosciences et cognition : Perspectives pour les sciences de l'éducation Pierre-André Doudin,Éric Tardif.2022-05-09 Cet ouvrage fait le point sur les débats actuels entre la pertinence d'une collaboration entre les neurosciences cognitives et les sciences de l'éducation en ce qui concerne notamment le langage, la mémoire, l'attention, le raisonnement, l'apprentissage et les troubles qui lui sont reliés. Les auteurs parmi les plus prestigieux (Canadiens, Américains, Français, Suisses) donnent un aperçu général des résultats de recherches récentes et font le point sur de nouvelles avancées en neurosciences cognitives en lien avec les sciences de l'éducation. Bien que prometteuse, cette collaboration entre neurosciences, sciences cognitives et sciences de l'éducation comporte plusieurs obstacles (attentes irréalistes ; interprétations abusives de résultats de recherche ; fausses croyances qui ont profondément pénétré le milieu des enseignants et des formateurs d'enseignants dans différents pays). L'ouvrage rend attentif à de telles dérives. La diversité des sujets traités rencontrera l'intérêt tant des psychologues que des étudiants à l'enseignement, des enseignants, des formateurs d'enseignants et des chercheurs en éducation et en psychologie de l'éducation.

Handbook of Individual Differences in Cognition Aleksandra Gruszka,Gerald Matthews,Blazej Szymura.2010-06-16 As cognitive models of behavior continue to evolve, the mechanics of cognitive exceptionality, with its range of individual variations in abilities and performance, remains a challenge to psychology. Reaching beyond the standard view of exceptional cognition equaling superior intelligence, the Handbook of Individual Differences in Cognition examines the latest findings from psychobiology, cognitive psychology, and neuroscience, for a comprehensive state-of-the-art volume. Breaking down cognition in terms of attentional mechanisms, working memory, and higher-order processing, contributors discuss general models of cognition and personality. Chapter authors build on this foundation as they revisit current theory in such areas as processing effort and general arousal and examine emerging methods in individual differences research, including new data on the role of brain plasticity in cognitive function. The possibility of a unified theory of individual differences in cognitive ability and the extent to which these variables may account for real-world competencies are emphasized, and commentary chapters offer suggestions for further research priorities. Coverage highlights include: The relationship between cognition and temperamental traits. The development of autobiographical memory. Anxiety and attentional control. The neurophysiology of gender differences in cognitive ability. Intelligence and cognitive control. Individual differences in dual task coordination. The effects of subclinical depression on attention, memory, and reasoning. Mood as a shaper of information. Researchers, clinicians, and graduate students in psychology and cognitive sciences, including clinical psychology and neuropsychology, personality and social psychology, neuroscience, and education, will find the Handbook of Individual Differences in Cognition an expert guide to the field as it currently stands and to its agenda for the future.

Decision Neuroscience Jean-Claude Dreher,Leon Tremblay.2016-09-27 Decision Neuroscience addresses fundamental questions about how the brain makes perceptual, value-based, and more complex decisions in non-social and social contexts. This book presents compelling neuroimaging, electrophysiological, lesional, and neurocomputational models in combination with hormonal and genetic approaches, which have led to a clearer understanding of the neural mechanisms behind how the brain makes decisions. The five parts of the book address distinct but inter-related topics and are designed to serve both as classroom introductions to major subareas in decision neuroscience and as advanced syntheses of all that has been accomplished in the last decade. Part I is devoted to anatomical, neurophysiological, pharmacological, and optogenetics animal studies on reinforcement-guided decision making, such as the representation of instructions, expectations, and outcomes; the updating of action values; and the evaluation process guiding choices between prospective rewards. Part II covers the topic of the neural representations of motivation, perceptual decision making, and value-based decision making in humans, combining neurcomputational models and brain imaging studies. Part III focuses on the rapidly developing field of social decision neuroscience, integrating recent mechanistic understanding of social decisions in both non-human primates and humans. Part IV covers clinical aspects involving disorders of decision making that link together basic research areas including systems, cognitive, and clinical neuroscience; this part examines dysfunctions of decision making in neurological and psychiatric disorders, such as Parkinson's disease, schizophrenia, behavioral addictions, and focal brain lesions. Part V focuses on the roles of various hormones (cortisol, oxytocin, ghrelin/leptine) and genes that underlie inter-individual differences observed with stress, food choices, and social decision-making processes. The volume is essential reading for anyone interested in decision making neuroscience. With contributions that are forward-looking assessments of the current and future issues faced by researchers, Decision Neuroscience is essential reading for anyone interested in decision-making neuroscience. Provides comprehensive coverage of approaches to studying individual and social decision neuroscience, including primate neurophysiology, brain imaging in healthy humans and in various disorders, and genetic and hormonal influences on decision making Covers multiple levels of analysis, from molecular mechanisms to neural-systems dynamics and computational models of how we make choices Discusses clinical implications of process dysfunctions, including schizophrenia, Parkinson's disease, eating disorders, drug addiction, and pathological gambling Features chapters from top international researchers in the field and full-color presentation throughout with numerous illustrations to highlight key concepts

The Cognitive Neurosciences, sixth edition David Poeppel,George R. Mangun,Michael S. Gazzaniga.2020-04-21 The sixth edition of the foundational reference on cognitive neuroscience, with entirely new material that covers the latest research, experimental approaches, and measurement methodologies. Each edition of this classic reference has proved to be a benchmark in the developing field of cognitive neuroscience. The sixth edition of The Cognitive Neurosciences continues to chart new directions in the study of the biological underpinnings of complex cognition—the relationship between the structural and physiological mechanisms of the nervous system and the psychological reality of the mind. It offers entirely new material, reflecting recent advances in the field, covering the latest research, experimental approaches, and measurement methodologies. This sixth edition treats such foundational topics as memory, attention, and language, as well as other areas, including computational models of cognition,

reward and decision making, social neuroscience, scientific ethics, and methods advances. Over the last twenty-five years, the cognitive neurosciences have seen the development of sophisticated tools and methods, including computational approaches that generate enormous data sets. This volume deploys these exciting new instruments but also emphasizes the value of theory, behavior, observation, and other time-tested scientific habits. Section editors Sarah-Jayne Blakemore and Ulman Lindenberger, Kalanit Grill-Spector and Maria Chait, Tomás Ryan and Charan Ranganath, Sabine Kastner and Steven Luck, Stanislas Dehaene and Josh McDermott, Rich Ivry and John Krakauer, Daphna Shohamy and Wolfram Schultz, Danielle Bassett and Nikolaus Kriegeskorte, Marina Bedny and Alfonso Caramazza, Liina Pylkkänen and Karen Emmorey, Mauricio Delgado and Elizabeth Phelps, Anjan Chatterjee and Adina Roskies

Cognition, Brain, and Consciousness Bernard J. Baars,Nicole M. Gage.2010-02-04 Cognition, Brain, and Consciousness, Second Edition, provides students and readers with an overview of the study of the human brain and its cognitive development.It discusses brain molecules and their primary function, which is to help carry brain signals to and from the different parts of the human body. These molecules are also essential for understanding language, learning, perception, thinking, and other cognitive functions of our brain. The book also presents the tools that can be used to view the human brain through brain imaging or recording.New to this edition are Frontiers in Cognitive Neuroscience text boxes, each one focusing on a leading researcher and their topic of expertise. There is a new chapter on Genes and Molecules of Cognition; all other chapters have been thoroughly revised, based on the most recent discoveries.This text is designed for undergraduate and graduate students in Psychology, Neuroscience, and related disciplines in which cognitive neuroscience is taught. New edition of a very successful textbook Completely revised to reflect new advances, and feedback from adopters and students Includes a new chapter on Genes and Molecules of Cognition Student Solutions available at http://www.baars-gage.com/ For Teachers: Rapid adoption and course preparation: A wide array of instructor support materials are available online including PowerPoint lecture slides, a test bank with answers, and eFlashcords on key concepts for each chapter. A textbook with an easy-to-understand thematic approach: in a way that is clear for students from a variety of academic backgrounds, the text introduces concepts such as working memory, selective attention, and social cognition. A step-by-step guide for introducing students to brain anatomy: color graphics have been carefully selected to illustrate all points and the research explained. Beautifully clear artist's drawings are used to 'build a brain' from top to bottom, simplifying the layout of the brain. For students: An easy-to-read, complete introduction to mind-brain science: all chapters begin from mind-brain functions and build a coherent picture of their brain basis. A single, widely accepted functional framework is used to capture the major phenomena. Learning Aids include a student support site with study guides and exercises, a new Mini-Atlas of the Brain and a full Glossary of technical terms and their definitions. Richly illustrated with hundreds of carefully selected color graphics to enhance understanding.

Reasoning Daniel Krawczyk.2017-11-13 Reasoning: The Neuroscience of How We Think is a comprehensive guide to the core topics related to a thorough understanding of reasoning. It presents the current knowledge of the subject in a unified, complete manner, ranging from animal studies, to applied situations, and is the only book available that presents a sustained focus on the neurobiological processes behind reasoning throughout all chapters, while also synthesizing research from animal behavior, cognitive psychology, development, and philosophy for a truly multidisciplinary approach. The book considers historical perspectives, state-of-the-art research methods, and future directions in emerging technology and cognitive enhancement. Written by an expert in the field, this book provides a coherent and structured narrative appropriate for students in need of an introduction to the topic of reasoning as well as researchers seeking well-rounded foundational content. It is essential reading for neuroscientists, cognitive scientists, neuropsychologists and others interested in the neural mechanisms behind thinking, reasoning and higher cognition. Provides a comparative perspective considering animal cognition and its relevance to human reasoning Includes developmental and lifespan considerations throughout the book Discusses technological development and its role in reasoning, both currently and in the future Considers perspectives from not only neuroscience, but cognitive psychology, philosophy, development, and animal behavior for a multidisciplinary treatment Contains highlight boxes featuring additional details on methods, historical descriptions and experimental tasks

Dictionary of Cognitive Science Olivier Houdé,Daniel Kayser,Olivier Koenig,Joëlle Proust,François Rastier.2004-03-01 A translation of the renowned French reference book, Vocabulaire de sciences cognitives , the Dictionary of Cognitive Science presents comprehensive definitions in more than 120 subjects. Topics range from 'Abduction' to 'Writing', and each entry is covered from as many perspectives as possible within the domains of psychology, artificial intelligence, neuroscience, philosophy, and linguistics. The editor and his advisory board, each a specialist in one of these areas, have brought together 60 internationally recognized scholars to give the reader a comprehensive understanding of the most current and dynamic thinking in the cognitive sciences.

Cognition and the Brain Andrew Brook,Kathleen Akins.2005-09-12 An up to date and comprehensive overview of the philosophy and neuroscience movement. At the heart of the movement is the conviction that basic questions about human cognition can be answered only by a philosophically sophisticated grasp of neuroscience's insights into the processing of information by the human brain.

Brain and Behavior David Eagleman,Jonathan Downar.2016 Brain and Behavior addresses the central aims of cognitive neuroscience, examining the brain not only by its components but also by its functions. Emphasizing the dynamically changing nature of the brain, the text highlights the principles, discoveries, and remaining mysteries of moderncognitive neuroscience to give students a firm grounding in this fascinating subject.

Exercise-Cognition Interaction Terry McMorris.2015-11-06 Exercise-Cognition Interaction: Neuroscience Perspectives is the only book on the market that examines the neuroscientific correlation between exercise and cognitive functioning. The upsurge in research in recent years has confirmed that cognitive-psychology theory cannot account for the effects of exercise on cognition, and both acute and chronic exercise effect neurochemical and psychophysiological changes in the brain that, in turn, affect cognitive functioning. This book provides an overview of the research into these effects, from theoretical research through current studies that emphasize neuroscientific theories and rationales. It addition, users will find a thorough examination of the effects of exercise interventions on cognitive functioning in special populations, including the elderly, children, and those suffering from a variety of diseases, including schizophrenia, diabetes, and an array of neurological disorders. With contributions from leading researchers in the field, this book will be the go-to resource for neuroscientists, psychologists, medical professionals, and other researchers who need an understanding of the role exercise plays in cognitive functioning. Provides a comprehensive account of how exercise affects brain functioning, which in turn affects cognition Covers both theory and empirical research Presents a thorough examination of the effects of exercise interventions on cognitive functioning in special populations, including the elderly, children, and those suffering from a variety of diseases Examines neurochemical, psychophysiological, and genetic factors Covers acute and chronic exercise

Conversations in the Cognitive Neurosciences Michael S. Gazzaniga.1997 Getting a fix on important questions and how to think about them from an experimental point of view is what scientists talk about, sometimes endlessly. It is those conversations that thrill and motivate, observes Michael Gazzaniga. Yet all too often these exciting interactions are lost to students, researchers, and others who are doing science.

The Brain’s Sense of Movement Alain Berthoz.2002-09-30 The neuroscientist Alain Berthoz experimented on Russian astronauts in space to answer these questions: How does weightlessness affect motion? How are motion and three-dimensional space perceived? In this erudite and witty book, Berthoz describes how human beings on earth perceive and control bodily movement. Reviewing a wealth of research in neurophysiology and experimental psychology, he argues for a rethinking of the traditional separation between action and perception, and for the division of perception into five senses. In Berthoz’s view, perception and cognition are inherently predictive, functioning to allow us to anticipate the consequences of current or potential actions. The brain acts like a simulator that is constantly inventing models to project onto the changing world, models that are corrected by steady, minute feedback from the world. We move in the direction we are looking, anticipate the trajectory of a falling ball, recover when we stumble, and continually update our own physical position, all thanks to this sense of movement. This interpretation of perception and action allows Berthoz, in The Brain’s Sense of Movement, to focus on psychological phenomena largely ignored in standard texts: proprioception and kinaesthesis, the mechanisms that maintain balance and coordinate actions, and basic perceptual and memory processes involved in navigation.

The Cognitive Neuroscience of Metacognition Stephen M. Fleming,Christopher D. Frith.2014-01-31 Metacognition is the capacity to reflect upon and

evaluate cognition and behaviour. Long of interest to philosophers and psychologists, metacognition has recently become the target of research in the cognitive neurosciences. By combining brain imaging, computational modeling, neuropsychology and insights from psychiatry, the present book offers a picture of the metacognitive functions of the brain. Chapters cover the definition and measurement of metacognition in humans and non-human animals, the computational underpinnings of metacognitive judgments the cognitive neuroscience of self-monitoring ranging from confidence to error-monitoring and neuropsychiatric studies of disorders of metacognition. This book provides an invaluable overview of a rapidly emerging and important field within cognitive neuroscience.

Neurosciences et cognition .2022 «Ce livre fait le point sur les débats actuels à propos de la pertinence d'une collaboration entre les neurosciences cognitives et les sciences de l'éducation, notamment en ce qui concerne le langage, la mémoire, l'attention, le raisonnement, l'apprentissage et les troubles qui lui sont liés. Les auteurs parmi les plus prestigieux (Canadiens, Américains, Français, Suisses) donnent un aperçu général des résultats de recherches récentes et font le point sur de nouvelles avancées en neurosciences cognitives en lien avec les sciences de l'éducation. Bien que prometteuse, cette collaboration entre neurosciences, sciences cognitives et sciences de l'éducation comporte plusieurs obstacles (attentes irréalistes ; interprétations abusives de résultats de recherche ; fausses croyances qui ont profondément pénétré le milieu des enseignants et des formateurs d'enseignants dans différents pays). L'ouvrage rend attentif à de telles dérives. La diversité des sujets traités rencontrera l'intérêt tant des psychologues que des étudiants à l'enseignement, des enseignants, des formateurs d'enseignants et des chercheurs en éducation et en psychologie de l'éducation.»--

Cognitive Neuroscience: Behavioral and Psychological Perspectives Nell Croft.2019-06-03 Cognitive neuroscience is the scientific field concerned with the study of the biological basis of cognition. Its focus lies in the neural connections underlying all mental processes. Some of the methods used in cognitive neuroscience involve a number of experimental procedures from cognitive psychology, electrophysiology, behavioral and cognitive genomics, etc. Cognitive psychology and computational neuroscience are two theoretical approaches. Modern neuroscience explores the interactions between the different areas of the brain by applying diverse approaches and technologies for understanding brain functions. Advances in data analysis methods and non-invasive functional neuroimaging have extended the frontiers of cognitive neuroscience. Brain mapping technologies such as PET and fMRI allow the observation of brain function. This book covers in detail some existing theories and innovative concepts revolving around cognitive neuroscience. Some of the diverse topics covered in this book address the behavioral and psychological perspectives of cognitive neuroscience and the recent advances in this field. It includes contributions of experts and scientists, which will provide innovative insights into this field.

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.

Evolutionary Cognitive Neuroscience Steven Platek,Julian Keenan,Todd Shackelford.2007 An essential reference for the new discipline of evolutionary cognitive neuroscience that defines the field's approach of applying evolutionary theory to guide brain-behavior investigations. Since Darwin we have known that evolution has shaped all organisms and that biological organs—including the brain and the highly crafted animal nervous system—are subject to the pressures of natural and sexual selection. It is only relatively recently, however, that the cognitive neurosciences have begun to apply evolutionary theory and methods to the study of brain and behavior. This landmark reference documents and defines the emerging field of evolutionary cognitive neuroscience. Chapters by leading researchers demonstrate the power of the evolutionary perspective to yield new data, theory, and insights on the evolution and functional modularity of the brain. Evolutionary cognitive neuroscience covers all areas of cognitive neuroscience, from nonhuman brain-behavior relationships to human cognition and consciousness, and each section of Evolutionary Cognitive Neuroscience addresses a different adaptive problem. After an introductory section that outlines the basic tenets of both theory and methodology of an evolutionarily informed cognitive neuroscience, the book treats neuroanatomy from ontogenetic and phylogenetic perspectives and explores reproduction and kin recognition, spatial cognition and language, and self-awareness and social cognition. Notable findings include a theory to explain the extended ontogenetic and brain development periods of big-brained organisms, fMRI research on the neural correlates of romantic attraction, an evolutionary view of sex differences in spatial cognition, a theory of language evolution that draws on recent research on mirror neurons, and evidence for a rudimentary theory of mind in nonhuman primates. A final section discusses the ethical implications of evolutionary cognitive neuroscience and the future of the field. Contributors: C. Davison Ankney, Simon Baron-Cohen, S. Marc Breedlove, William Christiana, Michael Corballis, Robin I. M. Dunbar, Russell Fernald, Helen Fisher, Jonathan Flombaum, Farah Focquaert, Steven J.C. Gaulin, Aaron Goetz, Kevin Guise, Ruben C. Gur, William D. Hopkins, Farzin Irani, Julian Paul Keenan, Michael Kimberly, Stephen Kosslyn, Sarah L. Levin, Lori Marino, David Newlin, Ivan S. Panyavin, Shilpa Patel, Webb Phillips, Steven M. Platek, David Andrew Puts, Katie Rodak, J. Philippe Rushton, Laurie Santos, Todd K. Shackelford, Kyra Singh, Sean T. Stevens, Valerie Stone, Jaime W. Thomson, Gina Volshteyn, Paul Root Wolpe

Mental Mechanisms William Bechtel.2008 First Published in 2007. Routledge is an imprint of Taylor & Francis, an informa company.

The Organisation of Conceptual Knowledge in the Brain Alex Martin,Alfonso Caramazza.2003 Category-specific knowledge disorders are among the most intriguing and perplexing syndromes in cognitive neuropsychology. The past decade has witnessed increased interest in these disorders, due largely to a heightened appreciation of the profound implications that an understanding of concept representation has for such diverse topics as object recognition, the organisation of the lexicon, and storage of long-term memories. Until recently, information about the representation of concepts was limited to findings from patients with brain injury and disease. This state of affairs has now changed with the advent and wide-spread availability of functional imaging for studying cognition in the normal human brain. The purpose of this special issue is to provide a forum for new findings and critical, theoretical analyses of existing data from patient and functional brain imaging studies. The contributions, all from major investigators in the field, range from studies of specific object categories such as animals, tools, fruit and vegetables, and faces, to the more general domains of number processing, social interaction, and mechanical knowledge. A unifying theme of these papers is the extent to which the findings can be best understood within the context of models that posit an innate, domain-specific organisation, those that appeal to an organisation by sensory- and motor-based features and properties, and those that propose an undifferentiated, distributed neural organisation.

Perspectives on Cognitive Neuroscience Richard G. Lister,Herbert Weingartner.1991 In this volume of original papers, the editors have assembled the work of some of the most eminent experts in cognitive psychology, neuroscience, and neuropsychology with the goal of integrating the diverse and growing body of research emerging in these diverse fields. The need for such a synthesis is clear. Today, neuronal events are being described with increasing precision, while our understanding of the neuroanatomy of the central nervous system has grown tremendously. We have also learned a great deal about how neurons communicate with one another, and the dynamic neurochemical and neurophysiological processes involved in information processing. However, all of this information would be lifeless if it were not possible to relate neurobiological events to behavior. The ultimate goal of those working in the field of cognitive neuroscience, and those who have contributed to this volume, is to develop as complete a description as possible of the processes of the mind. With this goal in mind, this volume offers findings that show how detailed information on neurochemical and neurophysiological processes in the brain can help us understand neurobiological events that lead to complex human behavior. Each part of the book begins with an introduction and ends with a commentary by the editors, integrating and highlighting the main themes of the chapters. Throughout, the editors convey the excitement of the field and point out the challenge of unresolved problems. Written for graduate students, clinicians, and researchers, this work will also appeal to a large audience of neuroscientists, psychologists, and neuropsychologists.

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