Ward Social Neuroscience

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Computational Modelling in Behavioural Neuroscience - Dietmar Heinke 2009-04-03
Classically, behavioural neuroscience theorizes about experimental evidence in a qualitative way. However, more recently there has been an increasing development of mathematical and computational models of experimental results, and in general these models are more clearly defined and more detailed than their qualitative counter parts. These new computational models can be set up so that they are consistent with both single neuron and whole-system levels of operation, allowing physiological results to be meshed with behavioural data – thus closing the gap between neurophysiology and human behaviour. There is considerable diversity between models with respect to the methodology of designing a model, the degree to which neurophysiological processes are taken into account and the way data (behavioural, electrophysiological, etc) constrains a model. This book presents examples of this diversity and in doing so represents the state-of-art in the field through a unique collection of papers from the world's leading researchers in the area of computational modelling in behavioural neuroscience. Based on talks given at the third Behavioural Brain Sciences Symposium, held at the Behavioural Brain Sciences Centre, University of Birmingham, in May 2007, the book appeals to a broad audience, from postgraduate students beginning to work in the field to experienced experimenters interested in an overview.

Cognitive Neuroscience of Consciousness - Anil Seth 2013-05-13
How do conscious experience, subjectivity, and free will arise from the brain and the body? Even in the late 20th century, consciousness was considered to be beyond the reach of science. Now, understanding the neural mechanisms underlying consciousness is recognized as a key objective for 21st century science. The cognitive neuroscience of consciousness is a fundamentally multidisciplinary enterprise, involving powerful new combinations of functional brain imaging, computational modelling, theoretical innovation, and basic neurobiology. Its progress will be marked by new insights not only into the complex brain mechanisms underlying consciousness, but also by novel clinical approaches to a wide range of neurological and psychiatric disorders. These innovations are well represented by the contents of the present volume. A target article by Victor Lamme puts forward the contentious position that neural evidence should trump evidence from behaviour and introspection, in any theory of consciousness. This article and its several commentaries advance one of the fundamental debates in consciousness science, namely whether there exists non-reportable phenomenal consciousness, perhaps dependent on local rather than global neural processes. Other articles explore the wider terrain of the new science of consciousness. For example, Maniscalco and colleagues use theta-burst transcranial magnetic stimulation to selectively impair metacognitive awareness; Massimini and coworkers examine changes in functional

connectivity during anesthesi, and Vanhaudenhuyse et al describe innovations in detecting residual awareness following traumatic brain injury. Together, then contents of this volume exemplify the `grand challenge of consciousness' in combining transformative questions about the human condition with a tractable programme of experimental and theoretical research.

The Body Keeps the Score - Bessel A. Van der Kolk 2015-09-08

An expert on traumatic stress outlines an approach to healing, explaining how traumatic stress affects brain processes and how to use innovative treatments to reactivate the mind's abilities to trust, engage others, and experience pleasure--

Sociality: The Behaviour of Group-Living Animals - Ashley Ward 2016-04-20

The last decade has seen a surge of interest among biologists in a range of social animal phenomena, including collective behaviour and social networks. In 'Animal Social Behaviour', authors Ashley Ward and Michael Webster integrate the most up-to-date empirical and theoretical research to provide a new synthesis of the field, which is aimed at fellow researchers and postgraduate students on the topic.

Neuroeconomics - Paul W. Glimcher 2013-08-13

In the years since it first published, Neuroeconomics: Decision Making and the Brain has become the standard reference and textbook in the burgeoning field of neuroeconomics. The second edition, a nearly complete revision of this landmark book, will set a new standard. This new edition features five sections designed to serve as both classroom-friendly introductions to each of the major subareas in neuroeconomics, and as advanced synopses of all that has been accomplished in the last two decades in this rapidly expanding academic discipline. The first of these sections provides useful introductions to the disciplines of microeconomics, the psychology of judgment and decision, computational neuroscience, and anthropology for scholars and students seeking interdisciplinary breadth. The second section provides an overview of how human and animal preferences are represented in the mammalian nervous systems. Chapters on risk, time preferences, social preferences, emotion, pharmacology, and common neural currencies—each written by leading experts—lay out the foundations of neuroeconomic thought. The third section contains both overview and in-depth chapters on the fundamentals of reinforcement learning, value learning, and value representation. The fourth section, "The Neural Mechanisms for Choice, integrates what is known about the decision-making architecture into state-of-the-art models of how we make choices. The final section embeds these mechanisms in a larger social context, showing how these mechanisms function during social decision-making in both humans and animals. The book provides a historically rich exposition in each of its chapters and emphasizes both the accomplishments and the controversies in the field. A clear explanatory style and a single expository voice characterize all chapters, making core issues in economics, psychology, and neuroscience accessible to scholars from all disciplines. The volume is essential reading for anyone interested in neuroeconomics in particular or decision making in general. Editors and contributing authors are among the acknowledged experts and founders in the field, making this the authoritative reference for neuroeconomics Suitable as an advanced undergraduate or graduate textbook as well as a thorough reference for active researchers Introductory chapters on economics, psychology, neuroscience, and anthropology provide students and scholars from any discipline with the keys to understanding this interdisciplinary field Detailed chapters on subjects that include reinforcement learning, risk, inter-temporal choice, drift-diffusion models, game theory, and prospect theory make this an invaluable reference Published in association with the Society for Neuroeconomics—www.neuroeconomics.org Full-color presentation throughout with numerous carefully selected illustrations to highlight key concepts

Dynamical Cognitive Science - Lawrence M. Ward 2002

An introduction to the application of dynamical systems science to the cognitive sciences. Dynamical Cognitive Science makes available to the cognitive science community the analytical tools and techniques of dynamical systems science, adding the variables of change and time to

the study of human cognition. The unifying theme is that human behavior is an "unfolding in time" whose study should be augmented by the application of time-sensitive tools from disciplines such as physics, mathematics, and economics, where change over time is of central importance. The book provides a fast-paced, comprehensive introduction to the application of dynamical systems science to the cognitive sciences. Topics include linear and nonlinear time series analysis, chaos theory, complexity theory, relaxation oscillators, and metatheoretical issues of modeling and theory building. Tools and techniques are discussed in the context of their application to basic cognitive science problems, including perception, memory, psychophysics, judgment and decision making, and consciousness. The final chapter summarizes the contemporary study of consciousness and suggests how dynamical approaches to cognitive science can help to advance our understanding of this central concept.

Oxford Textbook of Neurorehabilitation - Volker Dietz 2015

Part of the Oxford Textbooks in Clinical Neurology series, this textbook will provide the reader with an understanding of the theoretical underpinnings of neurorehabilitation, as well as a clear idea about how (and why) to approach treatment decisions in individual patients.

The Social Neuroscience of Empathy - Jean Decety 2011-01-21

Cross-disciplinary, cutting-edge work on human empathy from the perspectives of social, cognitive, developmental and clinical psychology and cognitive/affective neuroscience. In recent decades, empathy research has blossomed into a vibrant and multidisciplinary field of study. The social neuroscience approach to the subject is premised on the idea that studying empathy at multiple levels (biological, cognitive, and social) will lead to a more comprehensive understanding of how other people's thoughts and feelings can affect our own thoughts, feelings, and behavior. In these cutting-edge contributions, leading advocates of the multilevel approach view empathy from the perspectives of social, cognitive, developmental and clinical psychology and cognitive/affective neuroscience. Chapters include a critical examination of the various definitions of the empathy construct; surveys of major research traditions based on these differing views (including empathy as emotional contagion, as the projection of one's own thoughts and feelings, and as a fundamental aspect of social development); clinical and applied perspectives, including psychotherapy and the study of empathy for other people's pain; various neuroscience perspectives; and discussions of empathy's evolutionary and neuroanatomical histories, with a special focus on neuroanatomical continuities and differences across the phylogenetic spectrum. The new discipline of social neuroscience bridges disciplines and levels of analysis. In this volume, the contributors' state-of-the-art investigations of empathy from a social neuroscience perspective vividly illustrate the potential benefits of such cross-disciplinary integration. Contributors C. Daniel Batson, James Blair, Karina Blair, Jerold D. Bozarth, Anne Buysse, Susan F. Butler, Michael Carlin, C. Sue Carter, Kenneth D. Craig, Mirella Dapretto, Jean Decety, Mathias Dekeyser, Ap Dijksterhuis, Robert Elliott, Natalie D. Eggum, Nancy Eisenberg, Norma Deitch Feshbach, Seymour Feshbach, Liesbet Goubert, Leslie S. Greenberg, Elaine Hatfield, James Harris, William Ickes, Claus Lamm, Yen-Chi Le, Mia Leijssen, Abigail Marsh, Raymond S. Nickerson, Jennifer H. Pfeifer, Stephen W. Porges, Richard L. Rapson, Simone G. Shamay-Tsoory, Rick B. van Baaren, Matthijs L. van Leeuwen, Andries van der Leij, Jeanne C. Watson

The Liberating Path of the Hebrew Prophets - Ward-Lev, Nahum 2019-05-22

"This book examines the liberation journey that is the heart of the Hebrew Scriptures. The work begins with a careful reading of narrative, prophetic and legal texts from the Hebrew Scriptures. All of these texts reveal exodus, the journey from constriction, as a fundamental biblical concern. After showing how the message of the Hebrew Prophets represents a consistent theme throughout Scripture, the author traces the further refinement of these liberation themes in contemporary writers and prophets such as Abraham Joshua Heschel, Martin Buber, Paulo Freire, Gustavo Guttiérez, Erich Fromm, Martin Luther King, Beverly Harrison, Maya Angelou, Robin Wall Kimmerer and bell hooks. The book shows how the insights of these prophets, ancient and modern, offer guidance for confronting current challenges for readers of all faiths

and backgrounds"--Provided by publisher.

Cognitive Neuroscience - Marie T. Banich 2018-04-05

Updated fully, this accessible and comprehensive text highlights the most important theoretical, conceptual and methodological issues in cognitive neuroscience. Written by two experienced teachers, the consistent narrative ensures that students link concepts across chapters, and the careful selection of topics enables them to grasp the big picture without getting distracted by details. Clinical applications such as developmental disorders, brain injuries and dementias are highlighted. In addition, analogies and examples within the text, opening case studies, and 'In Focus' boxes engage students and demonstrate the relevance of the material to real-world concerns. Students are encouraged to develop the critical thinking skills that will enable them to evaluate future developments in this fast-moving field. A new chapter on Neuroscience and Society considers how cognitive neuroscience issues relate to the law, education, and ethics, highlighting the clinical and real-world relevance. An expanded online package includes a test bank.

Psychology of Emotion - Paula M. Niedenthal 2017-04-20

Since the turn of the twenty-first century, the psychology of emotion has grown to become its own field of study. Because the study of emotion draws inspiration from areas of science outside of psychology, including neuroscience, psychiatry, biology, genetics, computer science, zoology, and behavioral economics, the field is now often called emotion science or affective science. A subfield of affective science is affective neuroscience, the study of the emotional brain. This revised second edition of Psychology of Emotion reviews both theory and methods in emotion science, discussing findings about the brain; the function, expression, and regulation of emotion; similarities and differences due to gender and culture; the relationship between emotion and cognition; and emotion processes in groups. Comprehensive in its scope yet eminently readable, Psychology of Emotion serves as an ideal introduction for undergraduate students to the scientific study of emotion. It features effective learning devices such as bolded key terms, developmental details boxes, learning links, tables, graphs, and illustrations. In addition, a robust companion website offers instructor resources.

Organizational Neuroscience - David A. Waldman 2015-12-01

The goal of this book is to introduce organizational researchers and practitioners to the role of neuroscience in building theory, research methodologies and practical applications. On one hand, we aim to be a useful resource for researchers who look to become more familiar with organizational neuroscience or incorporate its concepts and methods into their own research. On the other hand, we provide insight for practitioners, who can envision neuroscience applications as a means of expanding their own professional toolboxes. The book is in two sections. First, we introduce general issues that cover the domain of organizational neuroscience, including the nature of the overall field and theoretical and methodological considerations. This section also addresses practical implications, especially for development processes. Second, we explore neuroscience influences on certain topics, such as leadership, emotion/affect, teams, ethics and moral reasoning and organizational justice. We conclude by pondering the future of organizational neuroscience; including ethical, social and legal issues, as well as the potential limitations of this emerging field.

The Awakened Brain - Lisa Miller 2021-08-17

A groundbreaking exploration of the neuroscience of spirituality and a bold new paradigm for health, healing, and resilience—from a New York Times bestselling author and award-winning researcher “A new revolution of health and well-being and a testament to, and celebration of, the power within.”—Deepak Chopra, MD Whether it’s meditation or a walk in nature, reading a sacred text or saying a prayer, there are many ways to tap into a heightened awareness of the world around you and your place in it. In The Awakened Brain, psychologist Dr. Lisa Miller shows you how. Weaving her own deeply personal journey of awakening with her groundbreaking research, Dr. Miller’s book reveals that humans are universally equipped with a capacity for spirituality, and that our brains become more resilient and robust as a result of it. For leaders in business and government, truth-seekers, parents, healers, educators, and any person confronting life’s biggest questions, The Awakened Brain

combines cutting-edge science (from MRI studies to genetic research, epidemiology, and more) with on-the-ground application for people of all ages and from all walks of life, illuminating the surprising science of spirituality and how to engage it in our lives: • The awakened decision is the better decision. With an awakened perception, we are more creative, collaborative, ethical, and innovative. • The awakened brain is the healthier brain. An engaged spiritual life enhances grit, optimism, and resilience while providing insulation against addiction, trauma, and depression. • The awakened life is the inspired life. Loss, uncertainty, and even trauma are the gateways by which we are invited to move beyond merely coping with hardship to transcend into a life of renewal, healing, joy, and fulfillment. Absorbing, uplifting, and ultimately enlightening, The Awakened Brain is a conversation-starting saga of scientific discovery packed with counterintuitive findings and practical advice on concrete ways to access your innate spirituality and build a life of meaning and contribution.

The Wiley Blackwell Handbook of Forensic Neuroscience - Anthony R. Beech 2018-01-26

Explores how the explosion of neuroscience-based evidence in recent years has led to a fundamental change in how forensic psychology can inform working with criminal populations. This book communicates knowledge and research findings in the neurobiological field to those who work with offenders and those who design policy for offender rehabilitation and criminal justice systems, so that practice and policy can be neurobiologically informed, and research can be enhanced. Starting with an introduction to the subject of neuroscience and forensic settings, The Wiley Blackwell Handbook of Forensic Neuroscience then offers in-depth and enlightening coverage of the neurobiology of sex and sexual attraction, aggressive behavior, and emotion regulation; the neurobiological bases to risk factors for offending such as genetics, developmental, alcohol and drugs, and mental disorders; and the neurobiology of offending, including psychopathy, antisocial personality disorders, and violent and sexual offending. The book also covers rehabilitation techniques such as brain scanning, brain-based therapy for adolescents, and compassion-focused therapy. The book itself: Covers a wide array of neuroscience research Chapters by renowned neuroscientists and criminal justice experts Topics covered include the neurobiology of aggressive behavior, the neuroscience of deception, genetic contributions to psychopathy, and neuroimaging-guided treatment Offers conclusions for practitioners and future directions for the field. The Handbook of Forensic Neuroscience is a welcome book for all researchers, practitioners, and postgraduate students involved with forensic psychology, neuroscience, law, and criminology.

Cognitive Neuroscience of Language - David Kemmerer 2014-11-20

Language is one of our most precious and uniquely human capacities, so it is not surprising that research on its neural substrates has been advancing quite rapidly in recent years. Until now, however, there has not been a single introductory textbook that focuses specifically on this topic. Cognitive Neuroscience of Language fills that gap by providing an up-to-date, wide-ranging, and pedagogically practical survey of the most important developments in the field. It guides students through all of the major areas of investigation, beginning with fundamental aspects of brain structure and function, and then proceeding to cover aphasia syndromes, the perception and production of speech, the processing of language in written and signed modalities, the meanings of words, and the formulation and comprehension of complex expressions, including grammatically inflected words, complete sentences, and entire stories. Drawing heavily on prominent theoretical models, the core chapters illustrate how such frameworks are supported, and sometimes challenged, by experiments employing diverse brain mapping techniques. Although much of the content is inherently challenging and intended primarily for graduate or upper-level undergraduate students, it requires no previous knowledge of either neuroscience or linguistics, defining technical terms and explaining important principles from both disciplines along the way.

The Design of Experiments in Neuroscience - Mary E. Harrington 2020-02-06

Using engaging prose, Mary E. Harrington introduces neuroscience

students to the principles of scientific research including selecting a topic, designing an experiment, analyzing data, and presenting research. This new third edition updates and clarifies the book's wealth of examples while maintaining the clear and effective practical advice of the previous editions. New and expanded topics in this edition include techniques such as optogenetics and conditional transgenes as well as a discussion of rigor and reproducibility in neuroscience research. Extended coverage of descriptive and inferential statistics arms readers with the analytical tools needed to interpret data. Throughout, practical guidelines are provided on avoiding experimental design problems, presenting research including creating posters and giving talks, and using a '12-step guide' to reading scientific journal articles.

The Student's Guide to Social Neuroscience - Jamie Ward 2016-11-16

Revised edition of the author's The student's guide to social neuroscience, 2012.

Orienting of Attention - Richard D. Wright 2008-04-16

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.

Handbook of Sleep Research - 2019-06-21

Handbook of Sleep Research, Volume 30, provides a comprehensive review of the current status of the neuroscience of sleep research. It begins with an overview of the neural, hormonal and genetic mechanisms of sleep and wake regulation before outlining the various proposed functions of sleep and the role it plays in plasticity, and in learning and memory. Finally, the book discusses disorders of sleep and waking, covering both lifestyle factors that cause disrupted sleep and psychiatric and neurological conditions that contribute to disorders. Emphasizes a comparative and multidisciplinary approach to the topic of sleep Covers the neurobiology and physiology of sleep stages, mechanisms of waking, and dreaming Discusses in detail the proposed functions of sleep, from health and rest, to memory consolidation and synaptic plasticity Examines the current state of research in mammalian and non-mammalian species, ranging from primates to invertebrates

Cognition, Brain, and Consciousness - Bernard J. Baars 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.

Culture, Mind, and Brain - Laurence J. Kirmayer 2020-09-24

Recent neuroscience research makes it clear that human biology is cultural biology - we develop and live our lives in socially constructed worlds that vary widely in their structure values, and institutions. This integrative volume brings together interdisciplinary perspectives from the human, social, and biological sciences to explore culture, mind, and brain interactions and their impact on personal and societal issues. Contributors provide a fresh look at emerging concepts, models, and applications of the co-constitution of culture, mind, and brain. Chapters survey the latest theoretical and methodological insights alongside the challenges in this area, and describe how these new ideas are being applied in the sciences, humanities, arts, mental health, and everyday life. Readers will gain new appreciation of the ways in which our unique biology and cultural diversity shape behavior and experience, and our ongoing adaptation to a constantly changing world.

Clinical Uses of Botulinum Toxins - Anthony B. Ward 2007-03-22

Botulinum toxins now play a very significant role in the management of a wide variety of medical conditions; from headaches to hypersalivation, and from spasticity to sweating. In this book, a strong, international team of experts outline the basic neurochemistry of botulinum toxins and chart the progress of the drug from laboratory to clinic. Then individual chapters summarize their use for the main clinical indications in the context of other available treatments. This book will be of interest to neuroscientists and practising clinicians working in a wide range of specialities, from neurology and dermatology to pediatrics, plastic surgery and rehabilitation medicine.

Homo Prospectus - Martin E. P. Seligman 2016-06-14

Our species is misnamed. Though sapiens defines human beings as "wise" what humans do especially well is to prospect the future. We are homo prospectus. In this book, Martin E. P. Seligman, Peter Railton, Roy F. Baumeister, and Chandra Sripada argue it is anticipating and evaluating future possibilities for the guidance of thought and action that is the cornerstone of human success. Much of the history of psychology has been dominated by a framework in which people's behavior is driven by past history (memory) and present circumstances (perception and motivation). Homo Prospectus reassesses this idea, pushing focus to the future front and center and opening discussion of a new field of Psychology and Neuroscience. The authors delve into four modes in which prospection operates: the implicit mind, deliberate thought, mind-wandering, and collective (social) imagination. They then explore prospection's role in some of life's most enduring questions: Why do people think about the future? Do we have free will? What is the nature of intuition, and how might it function in ethics? How does emotion function in human psychology? Is there a common causal process in

different psychopathologies? Does our creativity change with age? In this remarkable convergence of research in philosophy, statistics, decision theory, psychology, and neuroscience, Homo Prospectus shows how human prospection fundamentally reshapes our understanding of key cognitive processes, thereby improving individual and social functioning. It aims to galvanize interest in this new science from scholars in psychology, neuroscience, and philosophy, as well as an educated public curious about what makes humanity what it is.

Network Science in Cognitive Psychology - Michael S. Vitevitch 2019-11-26

This volume provides an integrative review of the emerging and increasing use of network science techniques in cognitive psychology, first developed in mathematics, computer science, sociology, and physics. The first resource on network science for cognitive psychologists in a growing international market, Vitevitch and a team of expert contributors provide a comprehensive and accessible overview of this cutting-edge topic. This innovative guide draws on the three traditional pillars of cognitive psychological research–experimental, computational, and neuroscientific–and incorporates the latest findings from neuroimaging. The network perspective is applied to the fundamental domains of cognitive psychology including memory, language, problem-solving, and learning, as well as creativity and human intelligence, highlighting the insights to be gained through applying network science to a wide range of approaches and topics in cognitive psychology Network Science in Cognitive Psychology will be essential reading for all upper-level cognitive psychology students, psychological researchers interested in using network science in their work, and network scientists interested in investigating questions related to cognition. It will also be useful for early career researchers and students in methodology and related courses.

The Student's Guide to Cognitive Neuroscience - Jamie Ward 2019-12-06

Reflecting recent changes in the way cognition and the brain are studied, this thoroughly updated fourth edition of this bestselling textbook provides a comprehensive and student-friendly guide to cognitive neuroscience. Jamie Ward provides an easy-to-follow introduction to neural structure and function, as well as all the key methods and procedures of cognitive neuroscience, with a view to helping students understand how they can be used to shed light on the neural basis of cognition. The book presents a comprehensive overview of the latest theories and findings in all the key topics in cognitive neuroscience, including vision, hearing, attention, memory, speech and language, numeracy, executive function, social and emotional behavior and developmental neuroscience. Throughout, case studies, newspaper reports, everyday examples and studentfriendly pedagogy are used to help students understand the more challenging ideas that underpin the subject. New to this edition: Increased focus on the impact of genetics on cognition New coverage of the cutting-edge field of connectomics Coverage of the latest research tools including tES and fNIRS and new methodologies such as multi-voxel pattern analysis in fMRI research Additional content is also included on network versus modular approaches, brain mechanisms of hand-eye coordination, neurobiological models of speech perception and production and recent models of anterior cingulate function. Written in an engaging style by a leading researcher in the field and presented in full color including numerous illustrative materials, this book will be invaluable as a core text for undergraduate modules in cognitive neuroscience. It can also be used as a key text on courses in cognition, cognitive neuropsychology, biopsychology or brain and behavior. Those embarking on research will find it an invaluable starting point and reference. This textbook is supported by an extensive companion website for students and instructors, including lectures by leading researchers, links to key studies and interviews, interactive multiple-choice questions and flashcards of key terms.

Brain Art and Neuroscience - David Gruber 2020-05-25

The first of its kind, this book examines artistic representations of the brain after the rise of the contemporary neurosciences, examining the interplay of art and science and tackling some of the critical-cultural implications. Weaving an MRI pattern onto a family quilt. Scanning the

brain of a philosopher contemplating her own death and hanging it in a museum. Is this art or science or something in-between? What does it mean? How might we respond? In this ground-breaking new book, David R. Gruber explores the seductive and influential position of the neurosciences amid a growing interest in affect and materiality as manifest in artistic representations of the human brain. Contributing to debates surrounding the value and/or purpose of interdisciplinary engagement happening in the neuro-humanities, Gruber emphasizes the need for critical-cultural analysis within the field. Engaging with New Materialism and Affect Theory, the book provides a current and concrete example of the on-going shift away from constructivist lenses, arguing that the influence of relatively new neuroscience methods (EEG, MRI and fMRI) on the visual arts has not yet been fully realised. In fact, the very idea of a brain as it is seen and encountered today—or "The Brain," as Gruber calls it—remains in need of critical, wild and rebellious re-imagination. Illuminating how artistic engagement with the brain is often sensual and suggestive even if rooted in objectivist impulses and tied to scientific realism, this book is ideal for scholars in Art, Media Studies, Sociology, and English departments, as well visual artists and anyone seriously engaging discourses of the brain.

Introduction to Social Neuroscience - Stephanie Cacioppo 2020-08-11

A textbook that lays down the foundational principles for understanding social neuroscience Humans, like many other animals, are a highly social species. But how do our biological systems implement social behaviors, and how do these processes shape the brain and biology? Spanning multiple disciplines, Introduction to Social Neuroscience seeks to engage students and scholars alike in exploring the effects of the brain’s perceived connections with others. This wide-ranging textbook provides a quintessential foundation for comprehending the psychological, neural, hormonal, cellular, and genomic mechanisms underlying such varied social processes as loneliness, empathy, theory-of-mind, trust, and cooperation. Stephanie and John Cacioppo posit that our brain is our main social organ. They show how the same objective relationship can be perceived as friendly or threatening depending on the mental states of the individuals involved in that relationship. They present exercises and evidence-based findings readers can put into practice to better understand the neural roots of the social brain and the cognitive and health implications of a dysfunctional social brain. This textbook’s distinctive features include the integration of human and animal studies, clinical cases from medicine, multilevel analyses of topics from genes to societies, and a variety of methodologies. Unveiling new facets to the study of the social brain’s anatomy and function, Introduction to Social Neuroscience widens the scientific lens on human interaction in society. The first textbook on social neuroscience intended for advanced undergraduates and graduate students Chapters address the psychological, neural, hormonal, cellular, and genomic mechanisms underlying the brain’s perceived connections with others Materials integrate human and animal studies, clinical cases, multilevel analyses, and multiple disciplines

Cognitive Psychodynamics as an Integrative Framework in Counselling Psychology and Psychotherapy - Tony Ward 2019-08-24

This book proposes a novel method of combining the current approaches to counselling and psychotherapy into one coherent framework. The authors argue that the cognitive behavioural tradition (largely focused on thought patterns) and the psychodynamic approach (centred on the client’s experience and relationships), can be successfully integrated with insights from cognitive neuroscience, to form a fruitful synthesis. In doing so they provide a perspective that will enable practitioners to more fully appreciate each client’s unique inner world, based on their individual history and environment. The authors point towards the brain’s innate ability to understand and learn from experience so as to direct the growth of that inner world. This book elaborates a method of tapping into this innate growth potential, so as to help clients move forward when they have become trapped in non-productive patterns or mental stalemates. It will provide fresh insights and a valuable resource for counselling psychologists, counsellors and psychotherapists, as well as for academics and students in these fields.

Smart Drugs & Nutrients - Ward Dean 1990

How to improve your memory and increase your intelligence using the latest discoveries in neuroscience.

The Student's Guide to Cognitive Neuroscience - Jamie Ward 2015-02-11

Reflecting recent changes in the way cognition and the brain are studied, this thoroughly updated third edition of the best-selling textbook provides a comprehensive and student-friendly guide to cognitive neuroscience. Jamie Ward provides an easy-to-follow introduction to neural structure and function, as well as all the key methods and procedures of cognitive neuroscience, with a view to helping students understand how they can be used to shed light on the neural basis of cognition. The book presents an up-to-date overview of the latest theories and findings in all the key topics in cognitive neuroscience, including vision, memory, speech and language, hearing, numeracy, executive function, social and emotional behaviour and developmental neuroscience, as well as a new chapter on attention. Throughout, case studies, newspaper reports and everyday examples are used to help students understand the more challenging ideas that underpin the subject. In addition each chapter includes: Summaries of key terms and points Example essay questions Recommended further reading Feature boxes exploring interesting and popular questions and their implications for the subject. Written in an engaging style by a leading researcher in the field, and presented in full-color including numerous illustrative materials, this book will be invaluable as a core text for undergraduate modules in cognitive neuroscience. It can also be used as a key text on courses in cognition, cognitive neuropsychology, biopsychology or brain and behavior. Those embarking on research will find it an invaluable starting point and reference. The Student’s Guide to Cognitive Neuroscience, 3rd Edition is supported by a companion website, featuring helpful resources for both students and instructors.

An Introduction to Social Psychology - James Alcock 2014-07-21

Psychology recognises no borders. The relationships between people and the groups they form are determined by similar principles no matter where in the world they come from. This book has been written to introduce students from all countries and backgrounds to the exciting field of social psychology. Recognising the limitations that come from studying the subject through the lens of any one culture, James Alcock and Stan Sadava have crafted a truly international social psychology book for the modern era. Based on classic and cutting-edge scholarship from across the world, An Introduction to Social Psychology encourages mastery of the basics as well as critical thinking. Incorporating relevant insights from social neuroscience, evolutionary theory and positive psychology, it offers: Chapters on crowd behaviour and applied social psychology Discussion of new means of social interaction, including social media Relevant insights from social neuroscience, evolutionary theory and positive psychology A companion website at study.sagepub.com/alcocksadava featuring extensive additional resources for students and instructors

Social Neuroscience - John T. Cacioppo 2006

Studies in the neurobiological underpinnings of social information processing by psychologists, neurobiologists, psychiatrists, radiologists, and neurologists, using methods that range from brain imaging techniques to comparative analyses. Social neuroscience uses the methodologies and tools developed to measure mental and brain function to study social cognition, emotion, and behavior. In this collection John Cacioppo, Penny Visser, and Cynthia Pickett have brought together contributions from psychologists, neurobiologists, psychiatrists, radiologists, and neurologists that focus on the neurobiological underpinnings of social information processing, particularly the mechanisms underlying "people thinking about thinking people." In these studies such methods as functional brain imaging, studies of brain lesion patients, comparative analyses, and developmental data are brought to bear on social thinking and feeling systems—the ways in which human beings influence and are influenced by other humans. The broad range of disciplines represented by the contributors confirms that among the strengths of social neuroscience are its interdisciplinary approach and the use of multiple methods that bridge disciplines and levels of analysis.

The Neuroscience of Organizational Behavior - Constant D. Beugré 2018-04-27

The Neuroscience of Organizational Behavior establishes the scientific foundations of organizational neuroscience, a nascent discipline that explores the neural correlates of human behavior in organizations. The book draws from several disciplines including the organizational sciences, neuroeconomics, cognitive psychology, social cognitive neuroscience and neuroscience. The topics discussed include the neural foundations of organizational phenomena, such as decision-making, leadership, fairness, trust and cooperation, emotions, ethics and morality, unconscious bias and diversity in the workplace.

The Tragedy of Heterosexuality - Jane Ward 2020-09-01

A troubling account of heterosexual desire in the era of #MeToo Heterosexuality is in crisis. Reports of sexual harassment, misconduct, and rape saturate the news in the era of #MeToo. Straight men and women spend thousands of dollars every day on relationship coaches, seduction boot camps, and couple's therapy in a search for happiness. In The Tragedy of Heterosexuality, Jane Ward smartly explores what, exactly, is wrong with heterosexuality in the twenty-first century, and what straight people can do to fix it for good. She shows how straight women, and to a lesser extent straight men, have tried to mend a fraught patriarchal system in which intimacy, sexual fulfillment, and mutual respect are expected to coexist alongside enduring forms of inequality, alienation, and violence in straight relationships. Ward also takes an intriguing look at the multi-billion-dollar self-help industry, which markets goods and services to help heterosexual couples without addressing the root of their problems. Ultimately, she encourages straight men and women to take a page out of queer culture, reminding them "about the human capacity to desire, fuck, and show respect at the same time."

Synesthesia - Lynn C. Robertson 2005

Owing to its bizarre nature and its implications for understanding how brains work, synesthesia has recently received a lot of attention in the popular press and motivated a great deal of research and discussion among scientists. The questions generated by these two communities are intriguing: Does the synesthetic phenomenon require awareness and attention? How does a feature that is not present become bound to one that is? Does synesthesia develop or is it hard wired? Should it change our way of thinking about perceptual experience in general? What is its value in understanding perceptual systems as a whole?This volume brings together a distinguished group of investigators from diverse backgrounds--among them neuroscientists, novelists, and synesthetes themselves--who provide fascinating answers to these questions. Although each approaches synesthesia from a very different perspective, and each was curious about and investigated synesthesia for very different reasons, the similarities between their work cannot be ignored. The research presented in this volume demonstrates that it is no longer reasonable to ask whether or not synesthesia is real--we must now ask how we can account for it from cognitive, neurobiological, developmental, and evolutionary perspectives. This book will be important reading for any scientist interested in brain and mind, not to mention synesthetes themselves, and others who might be wondering what all the fuss is about.

The Neuroscience of Expertise - Merim Bilalić 2017-02-16

The book examines the ways in which the brain accommodates the incredible feats of experts.

Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research - National Research Council 2003-08-22

Expanding on the National Research Councilâ€™s Guide for the Care and Use of Laboratory Animals, this book deals specifically with mammals in neuroscience and behavioral research laboratories. It offers flexible guidelines for the care of these animals, and guidance on adapting these guidelines to various situations without hindering the research process. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research offers a more in-depth treatment of concerns specific to these disciplines than any previous guide on animal care and use. It treats on such important subjects as: The important role that the researcher and veterinarian play in developing animal protocols. Methods for assessing and ensuring an animalâ€™s well-being. General animal-care elements as they apply to neuroscience

and behavioral research, and common animal welfare challenges this research can pose. The use of professional judgment and careful interpretation of regulations and guidelines to develop performance standards ensuring animal well-being and high-quality research. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research treats the development and evaluation of animal-use protocols as a decision-making process, not just a decision. To this end, it presents the most current, in-depth information about the best practices for animal care and use, as they pertain to the intricacies of neuroscience and behavioral research.

Attention in a Social World - Michael I. Posner 2012-01-19

This volume summarizes the research on the brain mechanisms of attention, especially those from human imaging studies. Michael I. Posner places this research in the context of human development, educational applications, and brain pathology.

Behavioral Neuroscience of Motivation - Eleanor H. Simpson 2016-05-11

This volume covers the current status of research in the neurobiology of motivated behaviors in humans and other animals in healthy condition. This includes consideration of the psychological processes that drive motivated behavior and the anatomical, electrophysiological and neurochemical mechanisms which drive these processes and regulate behavioural output. The volume also includes chapters on pathological disturbances in motivation including apathy, or motivational deficit as well as addictions, the pathological misdirection of motivated behavior. As with the chapters on healthy motivational processes, the chapters on disease provide a comprehensive up to date review of the neurobiological abnormalities that underlie motivation, as determined by studies of patient populations as well as animal models of disease. The book closes with a section on recent developments in treatments for motivational disorders.

Theory of Mind - Rebecca Saxe 2015-12-09

The articles in this special issue use a wide range of techniques and subject populations to address fundamental questions about the cognitive and neural structure of theory of mind.