



The Boundaries of Consciousness: Neurobiology and Neuropathology



Edited by
Steven Laureys

The Boundaries Of Consciousness Neurobiology And Neuropathology

Anirban Bandyopadhyay, Kanad Ray



The Boundaries Of Consciousness Neurobiology And Neuropathology:

The Boundaries of Consciousness: Neurobiology and Neuropathology Steven Laureys, 2006-06-09 Consciousness is one of the most significant scientific problems today Renewed interest in the nature of consciousness a phenomenon long considered not to be scientifically explorable as well as increasingly widespread availability of multimodal functional brain imaging techniques EEG ERP MEG fMRI and PET now offer the possibility of detailed integrated exploration of the neural behavioral and computational correlates of consciousness The present volume aims to confront the latest theoretical insights in the scientific study of human consciousness with the most recent behavioral neuroimaging electrophysiological pharmacological and neuropathological data on brain function in altered states of consciousness such as brain death coma vegetative state minimally conscious state locked in syndrome dementia epilepsy schizophrenia hysteria general anesthesia sleep hypnosis and hallucinations The interest of this is threefold First patients with altered states of consciousness continue to represent a major clinical problem in terms of clinical assessment of consciousness and daily management Second the exploration of brain function in altered states of consciousness represents a unique lesional approach to the scientific study of consciousness and adds to the worldwide effort to identify the neural correlate of consciousness Third new scientific insights in this field have major ethical and social implications regarding our care for these patients

The Boundaries of Consciousness Association for the Scientific Study of Consciousness. Meeting, 2005 Mindmelding William Hirstein, 2012-01-26 In this important and controversial new book William Hirstein argues that it is possible for one person to directly experience the conscious states of another by way of what he calls mindmelding Drawing on a range of research from neuroscience psychology and philosophy he presents a highly original new account of consciousness

Philosophy, Neuroscience and Consciousness Rex Welshon, 2016-09-17 Explaining consciousness is one of the last great unanswered scientific and philosophical problems Immediately known familiar and obvious consciousness is also baffling opaque and strange This introduction to the problems posed by consciousness discusses the most important work of cognitive science neurophysiology and philosophy of mind of the past thirty years and presents an up to date assessment of the issues and debates The reader is first introduced to the way that consciousness has been thought about in the history of philosophy and psychology The author then presents an informal and largely non technical account of the properties of consciousness that are thought to be the most paradigmatic and problematic Recent scientific work on consciousness from neurophysiological studies of the brain and evolutionary studies of the development of consciousness to computational theories of the mind are then examined and the philosophical problems that these accounts raise are systematically introduced The final chapters of the book consider more practical matters by addressing self deception neuroses the unconscious and notions of the self before concluding with an assessment of the future for psychology and the philosophy of mind

The Oxford Companion to Consciousness Tim Bayne, Axel Cleeremans, Patrick Wilken, 2014-02-27 Consciousness is undoubtedly one of the last

remaining scientific mysteries and hence one of the greatest contemporary scientific challenges How does the brain's activity result in the rich phenomenology that characterizes our waking life Are animals conscious Why did consciousness evolve How does science proceed to answer such questions Can we define what consciousness is Can we measure it Can we use experimental results to further our understanding of disorders of consciousness such as those seen in schizophrenia delirium or altered states of consciousness These questions are at the heart of contemporary research in the domain Answering them requires a fundamentally interdisciplinary approach that engages not only philosophers but also neuroscientists and psychologists in a joint effort to develop novel approaches that reflect both the stunning recent advances in imaging methods as well as the continuing refinement of our concepts of consciousness In this light the Oxford Companion to Consciousness is the most complete authoritative survey of contemporary research on consciousness Five years in the making and including over 250 concise entries written by leaders in the field the volume covers both fundamental knowledge as well as more recent advances in this rapidly changing domain Structured as an easy to use dictionary and extensively cross referenced the Companion offers contributions from philosophy of mind to neuroscience from experimental psychology to clinical findings so reflecting the profoundly interdisciplinary nature of the domain Particular care has been taken to ensure that each of the entries is accessible to the general reader and that the overall volume represents a comprehensive snapshot of the contemporary study of consciousness The result is a unique compendium that will prove indispensable to anyone interested in consciousness from beginning students wishing to clarify a concept to professional consciousness researchers looking for the best characterization of a particular phenomenon

Brain-like Super Intelligence from Bio-electromagnetism Anirban Bandyopadhyay, Kanad Ray, 2024-03-07 This book discusses various aspects of bioinspired technologies but with an additional emphasis on the medical science starting from the popular article on neurobiology to pure biophysics that ends with the superintelligence of biological systems that could be reverse engineered It covers eight different aspects of natural intelligence starting from the fundamental electromagnetic properties of a protein to the vibrations and the resonance of the entire biomaterial system It also covers a wide spectrum of hierarchical communication among different biological systems for intelligence and then medical science is applied

Responsible Brains William Hirstein, Katrina L. Sifferd, Tyler K. Fagan, 2023-09-19 An examination of the relationship between the brain and culpability that offers a comprehensive neuroscientific theory of human responsibility When we praise blame punish or reward people for their actions we are holding them responsible for what they have done Common sense tells us that what makes human beings responsible has to do with their minds and in particular the relationship between their minds and their actions Yet the empirical connection is not necessarily obvious The guilty mind is a core concept of criminal law but if a defendant on trial for murder were found to have serious brain damage which brain parts or processes would have to be damaged for him to be considered not responsible or less responsible for the crime What mental illnesses would justify legal pleas of insanity In *Responsible Brains*

philosophers William Hirstein Katrina Sifferd and Tyler Fagan examine recent developments in neuroscience that point to neural mechanisms of responsibility Drawing on this research they argue that evidence from neuroscience and cognitive science can illuminate and inform the nature of responsibility and agency They go on to offer a novel and comprehensive neuroscientific theory of human responsibility The authors core hypothesis is that responsibility is grounded in the brain s prefrontal executive processes which enable us to make plans shift attention inhibit actions and more The authors develop the executive theory of responsibility and discuss its implications for criminal law Their theory neatly bridges the folk psychological concepts of the law and neuroscientific findings

Management of Adults with Traumatic Brain Injury

David Brian Arciniegas,2013 Management of Adults with Traumatic Brain Injury is an up to the minute comprehensive and useful text designed to support busy physicians nurses and mental health professionals working with persons with traumatic brain injury TBI and their families Understanding and improving outcomes after TBI requires consideration of the effects of biomechanical forces on the brain and the interactions between the injury the person experiencing it and the psychosocial context in which TBI and its consequences occur A multidisciplinary approach to the management of persons with TBI therefore is essential Accordingly this book presents and synthesizes the work of internationally recognized brain injury clinicians scientists and educators who were selected by a team of editors with backgrounds in psychiatry neurology psychology and psychiatry This broad range of perspectives enhances understanding and provides nuanced yet practical information on the neuropsychiatric management of persons with TBI Evidence informed concise and clinically rich Management of Adults with Traumatic Brain Injury will be of enormous value to health care providers grappling with the neurological and mental health consequences of this widespread public health problem

Making Psychotherapy More Effective with Unconscious Process Work Dan Short,2021-07-28 Making Psychotherapy More Effective with Unconscious Process Work is an essential text that seeks to educate readers on the astounding capabilities of unconscious intelligence to both gather information and engage in rapid cognition By providing a comprehensive and easily understood overview of the recent research on unconscious processes as well as clinical case material this book provides readers with skills that will enable them to strategically engage these resources The first part of the book discusses the research based principles that frame this growth oriented approach towards psychotherapy New discoveries about the surprising limitations of conscious self governance force readers to reconsider the overall aim of psychotherapy The second part explores several transtheoretical techniques focusing on prediction reimagining mental contrasting and incubated cognition Case examples and key point summaries are used throughout with the last chapter featuring reflective exercises This book is essential reading for practicing psychotherapists Ericksonian therapists graduate students and professors of psychotherapy

Parapsychology David Groome,Ron Roberts,2016-11-07 Containing contributions from leading paranormal researchers this edition of Parapsychology continues to challenge and provoke readers with some of psychology s most puzzling

phenomena Whether believers or sceptics the book provides readers with the opportunity to further their understanding of the paranormal bridging the gap between traditional psychology and its so called fringe areas Featuring updates to many of the original chapters this book brings readers up to date with the wealth of radical research in the field This edition also includes several new chapters covering subjects as diverse as possession and exorcism conspiracy theories reincarnation and religious belief many of which are extremely relevant in the world today Drawing on a range of research the book provides a balanced introduction to parapsychology exploring the strengths and limitations of scientific investigation itself

Parapsychology is for readers from a variety of backgrounds professionals in the field students lay readers and anyone who wants to understand what the paranormal can tell us about ourselves A variety of viewpoints are on offer with the emphasis on the reader to make up their own mind Prepared to be unsettled again Brain & Behavior Bob Garrett, Gerald

Hough, 2017-10-04 Ignite your students excitement about behavioral neuroscience with Brain Behavior An Introduction to Behavioral Neuroscience Fifth Edition by best selling author Bob Garrett and new co author Gerald Hough Garrett and Hough make the field accessible by inviting students to explore key theories and scientific discoveries using detailed illustrations and immersive examples as their guide Spotlights on case studies current events and research findings help students make connections between the material and their own lives A study guide revised artwork new animations and an interactive eBook stimulate deep learning and critical thinking A Complete Teaching Learning Package Contact your rep to request a demo answer your questions and find the perfect combination of tools and resources below to fit your unique course needs SAGE Premium Video Stories of Brain Behavior and Figures Brought to Life videos bring concepts to life through original animations and easy to follow narrations Watch a sample Interactive eBook Your students save when you bundle the print version with the Interactive eBook Bundle ISBN 978 1 5443 1607 9 which includes access to SAGE Premium Video and other multimedia tools Learn more SAGE coursepacks SAGE coursepacks makes it easy to import our quality instructor and student resource content into your school s learning management system LMS Intuitive and simple to use SAGE coursepacks allows you to customize course content to meet your students needs Learn more SAGE edge This companion website offers both instructors and students a robust online environment with an impressive array of teaching and learning resources Learn more Study Guide The completely revised Study Guide offers students even more opportunities to practice and master the material Bundle it with the core text for only 5 more Learn more **Beyond the simple**

contrastive analysis: Appropriate experimental approaches for unraveling the neural basis of conscious

experience Jaan Aru, Talis Bachmann, 2015-06-26 Contrasting conditions with and without conscious experience has served consciousness research well However research based on this simple contrast has led to controversies about the neural basis of conscious experience One key reason for these ongoing debates seems to be that the simple contrast between conditions with and without consciousness is not specific for unraveling the neural basis of conscious experience but rather also leads to

other processes that precede or follow it Acknowledging this methodological problem implies that some of the previous research findings about the neural underpinnings of conscious experience are actually reflecting the prerequisites and consequences rather than the direct correlates of conscious perception Thus it is required to re evaluate the previous results to find out which of them are telling us anything about the neural basis of consciousness But first and foremost to overcome this methodological problem we need new experimental paradigms that go beyond the simple contrastive analysis or find the ways how some older but well forgotten paradigms may foster a new look at this emerging problem Accordingly this research topic is looking for empirical and theoretical contributions that 1 envision new and suitable experimental approaches to study consciousness that are free from the limitations of the simple contrastive analysis 2 provide empirical data that help to separate the neural correlates of conscious experience from the prerequisites and consequences of it 3 help to re assess previous research findings about the neural correlates of conscious perception in the light of the methodological problems with the traditional contrastive analysis We hope that the theoretical insights and experimental approaches collected within this Research Topic help us to gain a more refined understanding of the neural basis of conscious experience

Between Theory and Clinic: The Contribution of Neuroimaging in the Field of Consciousness Disorders Olivia Gosseries, Steven Laureys, Caroline Schnakers, 2019-05-16

The amount of patients surviving severe brain injury has gradually increased over these last decades thanks to the development of intensive care These patients either recover quickly from coma or go through prolonged disorders of consciousness such as vegetative state unresponsive wakefulness syndrome VS UWS or minimally conscious state MCS While patients in a minimally conscious state are to some extent aware of themselves and the environment and show fluctuating but reproducible signs of consciousness patients in a vegetative state unresponsive wakefulness syndrome are awake but only show reflexive behaviors These patients are unable to communicate and present vigilance fluctuation sensory deficits as well as severe motor and language impairments Even though behavioral assessment currently remains the gold standard for diagnosis a number of studies highlights the difficulty in making the distinction between conscious and unconscious patients based on clinical examinations and show a misdiagnosis rate as high as 40% Misdiagnosis can nevertheless have serious consequences on patient s management medically but also ethically i e regarding end of life decision The emergence of functional neuroimaging techniques such as positron emission tomography PET and functional magnetic resonance imaging fMRI opened new opportunities to study brain activity in patients with disorders of consciousness DOC Recent neuroimaging tools have brought new understandings on how the brain functions after coma and how these tools can complement bedside assessment by improving diagnosis and prognosis of DOC patients Indeed we know now that most patients in VS UWS present partial activation of sensory networks and impaired functional connectivity contrary to patients in MCS The reemergence of thalamo cortical connections has also been associated with recovery of consciousness whereas thalamic atrophy has been associated to chronic DOC Recent findings have also stressed the interest

of neuroimaging in the management and the treatment of these patients fMRI has been used as brain computer interfaces to detect consciousness in unresponsive patients and to allow basic communication in minimally conscious patients

Neuroimaging techniques are also currently being used to examine the effects of potential therapy such as pharmacological medications e g Amantadine or Zolpidem and brain stimulations e g transcranial direct current stimulation or repetitive transcranial magnetic stimulation

Dreaming Jennifer M. Windt, 2023-12-05 A comprehensive proposal for a conceptual framework for describing conscious experience in dreams integrating philosophy of mind sleep and dream research and interdisciplinary consciousness studies Dreams conceived as conscious experience or phenomenal states during sleep offer an important contrast condition for theories of consciousness and the self Yet although there is a wealth of empirical research on sleep and dreaming its potential contribution to consciousness research and philosophy of mind is largely overlooked This might be due in part to a lack of conceptual clarity and an underlying disagreement about the nature of the phenomenon of dreaming itself In *Dreaming* Jennifer Windt lays the groundwork for solving this problem She develops a conceptual framework describing not only what it means to say that dreams are conscious experiences but also how to locate dreams relative to such concepts as perception hallucination and imagination as well as thinking knowledge belief deception and self consciousness Arguing that a conceptual framework must be not only conceptually sound but also phenomenologically plausible and carefully informed by neuroscientific research Windt integrates her review of philosophical work on dreaming both historical and contemporary with a survey of the most important empirical findings This allows her to work toward a systematic and comprehensive new theoretical understanding of dreaming informed by a critical reading of contemporary research findings Windt s account demonstrates that a philosophical analysis of the concept of dreaming can provide an important enrichment and extension to the conceptual repertoire of discussions of consciousness and the self and raises new questions for future research

Computational Collective Intelligence Ngoc Thanh Nguyen, Lazaros Iliadis, Ilias Maglogiannis, Bogdan Trawiński, 2021-09-29 This book constitutes the refereed proceedings of the 13th International Conference on Computational Collective Intelligence ICCCI 2021 held in September October 2021 The conference was held virtually due to the COVID 19 pandemic The 58 full papers were carefully reviewed and selected from 230 submissions The papers are grouped in topical issues on knowledge engineering and semantic web social networks and recommender systems collective decision making cooperative strategies for decision making and optimization data mining and machine learning computer vision techniques natural language processing Internet of Things technologies and applications Internet of Things and computational technologies for collective intelligence computational intelligence for multimedia understanding

Declarative and Procedural Determinants of Second Languages Michel Paradis, 2009-01-14 This volume is the outcome of the author s observations and puzzlement over seventeen years of teaching English and French as second languages followed by 30 years of research into the neurolinguistic aspects of bilingualism It examines within the framework of a neurolinguistic

theory of bilingualism Paradis 2004 the crucial and pervasive contributions made by declarative and procedural memory to the appropriation representation and processing of a second language This requires careful consideration of a number of concepts associated with issues pertaining to second language research consciousness interface modularity automaticity proficiency accuracy fluency intake ultimate attainment switching implicit linguistic competence and explicit metalinguistic knowledge It is informed by data from a variety of domains including language pathology neuroimaging and from each side of the fence practical classroom experience This book introduces four further proposals within the framework of a neurolinguistic theory of bilingualism 1 There are two sets of cerebral representations those that are capable of reaching consciousness and those that are not implicit grammar is inherently not capable of reaching consciousness 2 The increased activation observed in neuroimaging studies during the use of a second language is not devoted to the processing of implicit linguistic competence 3 Intake is doubly implicit 4 Given the premise that metalinguistic knowledge cannot be converted into implicit competence there can be no possible interface between the two

The Technological Singularity Victor Callaghan, James Miller, Roman Yampolskiy, Stuart Armstrong, 2017-05-22 This volume contains a selection of authoritative essays exploring the central questions raised by the conjectured technological singularity Informed yet jargon free contributions written by active research scientists philosophers and sociologists it goes beyond philosophical discussion to provide a detailed account of the risks that the singularity poses to human society and perhaps most usefully the possible actions that society and technologists can take to manage the journey to any singularity in a way that ensures a positive rather than a negative impact on society The discussions provide perspectives that cover technological political and business issues The aim is to bring clarity and rigor to the debate in a way that will inform and stimulate both experts and interested general readers

NEUROEPISTEMOLOGY YURI ZAMBRANO, 2012-10-01 The Epistemologic study of the mind mind problem Mind brain ToM and conscious cognition can apply the Theory of Neuronal Epistemology TNE based on backpropagation of specific neural networks For operating in functionalist terms and in a cognitive way the TNE is supported by a connectionist model holding the algorithmic equation that includes probabilistic features spatiotemporal units computational components and fractal geometric tensorial variables The main arguments of the TNE deal with the study of diverse neuronal lineages and their sophisticated specialization Neuronalism and the neurons knowledge A second argument is the Protein Epistem determining this specialization degree and the third is associated with connectionism The essential unit of the TNE formula is the Fractal Coincidental Pattern FCP used for evaluating the multiple vectorial probabilities of this small world during the quantal release of neurotransmitters

Scientific American Reader to Accompany Schacter/Gilbert/Wegner Daniel L. Schacter, 2008-07 The result of an exclusive partnership with Scientific American the articles in this collection were personally selected from the pages of world's foremost scientific magazine by the authors Dan Schacter Dan Gilbert and Dan Wegner

Gene Expression to Neurobiology and Behaviour, 2011-04-21 How does the

genome interacting with the multi faceted environment translate into the development by which the human brain achieves its astonishing adaptive array of cognitive and behavioral capacities Why and how does this process sometimes lead to neurodevelopmental disorders with a major lifelong personal and social impact This volume of Progress in Brain Research links findings on the structural development of the human brain the expression of genes in behavioral and cognitive phenotypes environmental effects on brain development and developmental processes in perception action attention cognitive control social cognition and language in an attempt to answer these questions Leading authors review the state of the art in their field of investigation and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background information and are written in a clear form that is also accessible to the non specialist

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