

CONSCIOUSNESS: A Mathematical Treatment of the Global Neuronal Workspace Model

Rodrick Wallace

 Springer

Consciousness A Mathematical Treatment Of The Global Neuronal Workspace Model

Rodrick Wallace, Deborah Wallace



Consciousness A Mathematical Treatment Of The Global Neuronal Workspace Model:

Consciousness Rodrick Wallace, 2005-12-06 This book is not an intellectual history or popular summary of recent work on consciousness in humans Bernard Baars 1988 Edelman and Tononi 2000 and many others have written such and done it well indeed This book rather brings the powerful analytic machinery of communication theory to bear on the Global Neuronal Workspace GNW model of consciousness which Baars introduced and does so in a formal mathematical manner It is not the first such attempt The philosopher Fred Dretske 1981 independent of Baars long ago outlined how information theory might illuminate the understanding of mind Adapting his approach on the necessary conditions for mental process we apply a previously developed information theory analysis of interacting cognitive biological and social modules to Baars GNW which has become the principal candidate for a standard model of consciousness Invoking an obvious canonical homology with statistical physics the method when iterated in the spirit of the Hierarchical Linear Model of regression theory generates a fluctuating dynamic threshold for consciousness which is similar to a tunable phase transition in a physical system The phenomenon is however constrained to a manifold atlas structure analogous to a retina an adaptable Rate Distortion manifold whose topology in a large sense reflects the hierarchy of embedding constraints acting on consciousness This view greatly extends what Baars has characterized as contexts

Consciousness Rodrick Wallace, 2005-04-14 This book is not an intellectual history or popular summary of recent work on consciousness in humans Bernard Baars 1988 Edelman and Tononi 2000 and many others have written such and done it well indeed This book rather brings the powerful analytic machinery of communication theory to bear on the Global Neuronal Workspace GNW model of consciousness which Baars introduced and does so in a formal mathematical manner It is not the first such attempt The philosopher Fred Dretske 1981 independent of Baars long ago outlined how information theory might illuminate the understanding of mind Adapting his approach on the necessary conditions for mental process we apply a previously developed information theory analysis of interacting cognitive biological and social modules to Baars GNW which has become the principal candidate for a standard model of consciousness Invoking an obvious canonical homology with statistical physics the method when iterated in the spirit of the Hierarchical Linear Model of regression theory generates a fluctuating dynamic threshold for consciousness which is similar to a tunable phase transition in a physical system The phenomenon is however constrained to a manifold atlas structure analogous to a retina an adaptable Rate Distortion manifold whose topology in a large sense reflects the hierarchy of embedding constraints acting on consciousness This view greatly extends what Baars has characterized as contexts

Collective Consciousness and Its Discontents: Rodrick Wallace, Mindy T. Fullilove, 2007-11-28 An earlier book by Rodrick Wallace entitled *Consciousness A Mathematical Treatment of the Global Neuronal Workspace Model* introduced a formal information theoretic approach to individual consciousness implementing approaches developed previously by the cognitive scientist Bernard Baars and the philosopher Fred Dretske This book takes a more formal groupoid

perspective and generalizes the results of that book to processes of distributed cognition characteristic of large institutions that can entertain several sometimes many simultaneous global workspaces which must compete for resources while communicating and cooperating. Equivalence classes of states produce a network of language analogs characterizing interacting cognitive modules which entertain multiple workspaces. Equivalence classes of these language analogs produce dynamical manifolds describing temporal processes carried out by multiple workspace institutions.

Information Theory Models Of Instabilities In Critical Systems Rodrick Wallace, 2016-08-18 The book is a unique exploration of a spectrum of unexpected analogs to psychopathologies likely to afflict real time critical systems written by a specialist in the epidemiology of mental disorders. The purpose of this book is to develop a set of information theoretic statistical tools for analyzing the instabilities of real time cognitive systems at those varying scales and levels of organization with special focus on high level machine function. The book should be of particular interest to both industry and academic scientists and government regulators concerned with driverless cars on intelligent roads. Many of the same concerns also afflict high end automated weapons systems. The book should appeal to students, researchers and industrial and governmental administrators facing the design, operation and maintenance of real time critical systems ranging across manufacturing facilities, transportation, finance and military operations.

Consciousness, Cognition and Crosstalk: The Evolutionary Exaptation of Nonergodic Groupoid Symmetry-Breaking Rodrick Wallace, 2021-10-20 This book makes application to the dynamics of arousal and distraction and to other examples. A modified version of the Kadanoff picture of phase transitions in consciousness emerges from the Morse Function itself in a surprisingly standard manner closely associated with the breaking of groupoid symmetries driven by fundamental equivalence class algebras. Although this is far indeed from the familiar world of physical theory it should be possible on the basis of the probability models developed in the book to develop new statistical tools for the analysis of observational and empirical data regarding cognition and consciousness.

Introducing the Oscillations Based Paradigm Darius Plikynas, 2016-06-16 The book presents a conceptually novel oscillations based paradigm: the Oscillation Based Multi Agent System OSIMAS aimed at the modelling of agents and their systems as coherent stylized neurodynamic processes. This paradigm links emerging research domains via coherent neurodynamic oscillation based representations of the individual human mind and society as a coherent collective mind states. Thus this multidisciplinary paradigm delivers an empirical and simulation research framework that provides a new way of modelling the complex dynamics of individual and collective mind states. This book addresses a conceptual problem: the lack of a multidisciplinary connecting paradigm which could link fragmented research in the fields of neuroscience, artificial intelligence, AI, multi agent system MAS and the social network domains. The need for a common multidisciplinary research framework essentially arises because these fields share a common object of investigation and simulation: i.e. individual and collective human behavior. Although the fields of research mentioned above all approach this from different perspectives, their common object of investigation unites them. By putting

the various pathways of research as they are interrelated into perspective this book provides a philosophical underpinning experimental background and modelling tools that the author anticipates will reveal new frontiers in multidisciplinary research Fundamental investigation of the implicit oscillatory nature of agents mind states and social mediums in general can reveal some new ways of understanding the periodic and nonperiodic fluctuations taking place in real life For example via agent states related diffusion properties we could investigate complex economic phenomena like the spread of stock market crashes currency crises speculative oscillations bubbles and crashes social unrest recessionary effects sovereign defaults etc All these effects are closely associated with social fragility which follows and is affected by cycles such as production political business and financial Thus the multidisciplinary OSIMAS paradigm can yield new knowledge and research perspectives allowing for a better understanding of social agents and their social organization principles

Computational Psychiatry Rodrick Wallace, 2017-04-20 This book explores mental disorders from a uniquely evolutionary perspective Although there have been many attempts to mathematically model neural processes and to some extent their dysfunction there is very little literature that models mental function within a sociocultural socioeconomic and environmental context Addressing this gap in the extant literature this book explores essential aspects of mental disorders recognizing the ubiquitous role played by the exaptation of crosstalk between cognitive modules at many different scales and levels of organization the missing heritability of complex diseases and cultural epigenetics Further it introduces readers to valuable control theory tools that permit the exploration of the environmental induction of neurodevelopmental disorders as well as the study of the synergism between culture psychopathology and sleep disorders offering a distinctively unique resource

Gene Expression and Its Discontents Rodrick Wallace, Deborah Wallace, 2016-11-23 This book describes how epigenetic context in a large sense affects gene expression and the development of an organism using the asymptotic limit theorems of information theory to construct statistical models useful in data analysis The approach allows deep understanding of how embedding context affects development We find that epigenetic information sources act as tunable catalysts directing ontogeny into characteristic pathways a perspective having important implications for epigenetic epidemiology In sum environmental stressors can induce a broad spectrum of developmental dysfunctions and the book explores a number of pandemic chronic diseases using U S data at different scales and levels of organization In particular we find the legacy of slavery has been grossly compounded by accelerating industrial decline and urban decay Individual chapters are dedicated to obesity and its sequelae coronary heart disease cancer mental disorders autoimmune dysfunction Alzheimer s disease and other conditions Developmental disorders are driven by environmental factors channeled by historical trajectory and are unlikely to respond to medical interventions at the population level in the face of persistent individual and community stress Drugs powerful enough to affect deleterious epigenetic programming will likely have side effects leading to shortened lifespan Addressing chronic conditions and developmental disorders requires significant large scale changes in public policy and resource

allocation Maldynia James Giordano,2016-04-19 Whether initiated by injury or disease induced and sustained by changes in the nervous system or manifested by society and culture chronic pain can change one's first person experience of the body and the world and ultimately impacts cognitions emotions and behavior Many fine medical books address the causes and management of chronic intract Perception-Action Cycle Vassilis Cutsuridis,Amir Hussain,John G. Taylor,2011-02-02 The perception action cycle is the circular flow of information that takes place between the organism and its environment in the course of a sensory guided sequence of behaviour towards a goal Each action causes changes in the environment that are analyzed bottom up through the perceptual hierarchy and lead to the processing of further action top down through the executive hierarchy toward motor effectors These actions cause new changes that are analyzed and lead to new action and so the cycle continues The Perception action cycle Models architectures and hardware book provides focused and easily accessible reviews of various aspects of the perception action cycle It is an unparalleled resource of information that will be an invaluable companion to anyone in constructing and developing models algorithms and hardware implementations of autonomous machines empowered with cognitive capabilities The book is divided into three main parts In the first part leading computational neuroscientists present brain inspired models of perception attention cognitive control decision making conflict resolution and monitoring knowledge representation and reasoning learning and memory planning and action and consciousness grounded on experimental data In the second part architectures algorithms and systems with cognitive capabilities and minimal guidance from the brain are discussed These architectures algorithms and systems are inspired from the areas of cognitive science computer vision robotics information theory machine learning computer agents and artificial intelligence In the third part the analysis design and implementation of hardware systems with robust cognitive abilities from the areas of mechatronics sensing technology sensor fusion smart sensor networks control rules controllability stability model knowledge representation and reasoning are discussed **American Book Publishing Record** ,2003

The Philosopher's Index ,2007 Vols for 1969 include a section of abstracts *The British National Bibliography* Arthur James Wells,2007 **Internationale Bibliographie der Rezensionen wissenschaftlicher Literatur** ,2007 **A Cognitive Theory of Consciousness** Bernard J. Baars,1993-07-30 Bernard Baars suggests a way to specify empirical constraints on a theory of consciousness by contrasting well established conscious phenomena with comparable unconscious ones such as stimulus representations known to be preperceptual unattended or habituated By adducing data to show that consciousness is associated with a kind of workplace in the nervous system Baars helps clarify the problem *On Consciousness: Science & Subjectivity - Updated Works on Global Workspace Theory* Bernard J. Baars,2019-09-26 The works of Bernard Baars collected here are among the foundational texts of the scientific study of consciousness Their influence in cognitive science and philosophy of mind is enormous and their impact on my own thinking has been profound Murray Shanahan Professor of Cognitive Robotics Dept of Computing ICL Global Workspace Theory GWT began with this question

How does a serial integrated and very limited stream of consciousness emerge from a nervous system that is mostly unconscious distributed parallel and of enormous capacity GWT is a widely used framework for the role of conscious and unconscious experiences in the functioning of the brain A set of explicit assumptions that can be tested as many of them have been These updated works from the recipient of INNS 2019 Hermann von Helmholtz Life Contribution Award form a coherent effort to organize a large and growing body of scientific evidence about conscious brains Throughout human history people have perceived the conscious brain as the great nexus of human life of social relationships of their personal identities and histories in encounters with new challenges Consciousness under its many labels and manifestations is widely seen to be one of the core mysteries of life Many therapeutic approaches can be viewed in a global workspace framework including traditional psychodynamics and depth psychology but also cognitive behavioral techniques and indeed many other kinds of carefully studied human functions Making progress in understanding consciousness therefore has an endless number of implications philosophical metaphysical scientific medical clinical and practical A valuable reference for technical audiences and a vigorous intellectual hike for the layman Kirkus Reviews How can we understand the evidence The best answer today is a global workspace architecture first developed by cognitive modeling groups led by Alan Newell and Herbert A Simon The term global workspace comes from Artificial Intelligence where it refers to a fleeting memory domain that allows for cooperative problem solving by large collections of specialized programs Global Workspace Theory GWT therefore assumes that the brain can be viewed as a society of mind Global Workspace GW theory is consistent with our current knowledge and can be enriched to include other aspects of human experience Stan Franklin and co workers have built on GWT to sketch out a more general theory of cognition LIDA Cognitive Architecture s Computational Implementation of GWT Stanislas Dehaene and Jean Pierre Changeux in Paris developed experimentally testable models making further testable claims about the brain basis of visual consciousness The Dehaene Changeux Model DCM Global Neuronal Workspace is Part of GWT Global Workspace Dynamics GWD is the most current version of GWT attempting to account for complexities of the living brain These updated works trace the beginnings of GWT GWD through the continued rise of brain evidence and psychological understanding On Consciousness is an indispensable addition to the library of both students and experts studying mind brain and behavior Bernie Baars is a giant on whose shoulders the future science of consciousness will stand Antti Revonsuo PhD Professor of Cognitive Neuroscience University of Skövde Sweden

Neural Basis of Consciousness Naoyuki Osaka, 2003

Recent advances in cognitive neuroscience make possible an understanding of the neural events that are associated with different forms of consciousness To fully understand and unveil the mystery of consciousness inside the brain we require examination of the concept of neural basis of conscious mind This book provides a systematic exploration of consciousness and gives an overview of neural and quantum basis of conscious mind through careful explanation of proposed models and extends these theories challenging some generalised views on consciousness Each chapter provides a review of the findings

and theoretical accounts related to neural basis of consciousness and the mechanisms of the different varieties of consciousness Professor Naoyuki Osaka Kyoto University has been active in experimental research on consciousness and attention for more than 15 years Series B **Consciousness and the Brain** Stanislas Dehaene, 2014-12-30 WINNER OF THE 2014 BRAIN PRIZE From the acclaimed author of Reading in the Brain and How We Learn a breathtaking look at the new science that can track consciousness deep in the brain How does our brain generate a conscious thought And why does so much of our knowledge remain unconscious Thanks to clever psychological and brain imaging experiments scientists are closer to cracking this mystery than ever before In this lively book Stanislas Dehaene describes the pioneering work his lab and the labs of other cognitive neuroscientists worldwide have accomplished in defining testing and explaining the brain events behind a conscious state We can now pin down the neurons that fire when a person reports becoming aware of a piece of information and understand the crucial role unconscious computations play in how we make decisions The emerging theory enables a test of consciousness in animals babies and those with severe brain injuries A joyous exploration of the mind and its thrilling complexities Consciousness and the Brain will excite anyone interested in cutting edge science and technology and the vast philosophical personal and ethical implications of finally quantifying consciousness

Characterizing Consciousness: From Cognition to the Clinic? Stanislas Dehaene, Yves Christen, 2011-05-27 Fifteen of the foremost scientists in this field presented testable theoretical models of consciousness and discussed how our understanding of the role that consciousness plays in our cognitive processes is being refined with some surprising results Beyond Neural Correlates of Consciousness Morten Overgaard, Jesper Mogensen, Asger Kirkeby-Hinrup, 2020-07-26 Drawing on neuroscientific research and metacognitive theory this groundbreaking volume examines the theoretical implications that are elicited when neural correlates of consciousness NCC are identified The relationship between consciousness and the brain has concerned philosophers for centuries yet a tacit assumption in much empirically minded consciousness research seems to be that if we can only develop a map of correlations no further questions remain to be asked Beyond Neural Correlates of Consciousness starts where others stop by asking what these correlations may tell us about the nature of consciousness The book contains chapters considering the upshots of finding the neural correlates of consciousness in light of the most prominent contemporary theories in the field This illuminates the theoretical consequences of succeeding in the quest for the neural correlates of consciousness from the perspective of global workspace theory higher order thought theory local recurrency theory and REFCON models in addition to considering how this quest is shaped by different conscious phenomena such as dreaming altered states of consciousness and different levels of consciousness This insightful text features sophisticated theories that goes beyond correlational inferences and neural mapping and will be of interest to students and researchers of consciousness particularly those interested in interpreting neural correlates

Reviewing **Consciousness A Mathematical Treatment Of The Global Neuronal Workspace Model**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Consciousness A Mathematical Treatment Of The Global Neuronal Workspace Model**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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