

**CONSCIOUSNESS:  
A Mathematical  
Treatment of the  
Global Neuronal  
Workspace Model**

**Rodrick Wallace**

 Springer

# Consciousness A Mathematical Treatment Of The Neuronal Workspace Model

**James Giordano**



## **Consciousness A Mathematical Treatment Of The 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.

*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 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

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

**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

**Robot Brains** Pentti O. Haikonen, 2007-09-27  
Haikonen envisions autonomous robots that perceive and understand the world directly acting in it in a natural human like way without the need of programs and numerical representation of information By developing higher level cognitive functions through the power of artificial associative neuron architectures the author approaches the issues of machine consciousness *Robot Brains* expertly outlines a complete system approach to cognitive machines offering practical design guidelines for the creation of non numeric autonomous creative machines It details topics such as component parts and realization principles so that different pieces may be implemented in hardware or software Real world examples for designers and researchers are provided including circuit and systems examples that few books on this topic give In novel technical and practical detail this book also considers the limitations and remedies of traditional neural associators in creating true machine cognition basic circuit assemblies cognitive neural architectures how motors can be interfaced with the associative neural system in order for fluent motion to be achieved without numeric computations memorization imagination planning and reasoning in the machine the concept of machine emotions for motivation and value systems an approach towards the use and understanding of natural language in robots The methods presented in this book have important implications for computer vision signal processing speech recognition and other information technology fields Systematic and thoroughly logical it will appeal to practising engineers involved in the development and design of robots and cognitive machines also researchers in Artificial Intelligence Postgraduate students in computational neuroscience and robotics and neuromorphic engineers will find it an exciting source of information

**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 *Neurodynamics of Cognition and Consciousness* Leonid I. Perlovsky, Robert Kozma, 2007-08-26  
Experimental evidence in humans and other mammals indicates that complex neurodynamics is crucial for the emergence of higher level intelligence Dynamical neural systems with encoding in limit cycle and non convergent attractors have gained increasing popularity in the past decade The role of synchronization desynchronization and intermittent synchronization on cognition has been studied extensively by various authors in particular by authors contributing to the present volume This

book addresses dynamical aspects of brain functions and cognition      **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      **The Pathways of Mind** Roland

Kalb, 2011-04-15      **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      *CONSCIOUSNESS AND BEHAVIOR: A NEURAL ANALYSIS OF BEHAVIOR AND OF CONSCIOUSNESS*

JAMES T. CULBERTSON, 1950      Mind, Consciousness, Body Robert G. Howard Ph. D, 2012-08 Good news at last here are new and exact descriptions of the mind consciousness body reality time nervous system taxonomy Feel the stimulation of your curiosity into the ancient questions about the mind body duality as you plan your research and publication program How reality and three time dimensions emerge from the mind and consciousness Easy to understand mathematical definitions of otherwise ambiguous terms Each of fifty hypotheses will inspire you to publish more than your peers Introducing all the recommendations you will need to design an experiment or a research project which will propel you to the credible and prestigious forefront of your field Exact scientific answers to the problem of mind consciousness body are easily worth 4 hours of reading These solutions will kick off your numerous insightful publications The price of this book will yield massive funding for years of your research The math is reduced to the bare minimum and is explained in detail so the reader can use it in his own publications The mathematics is treated as an abbreviated language which is translated into natural language

## Whispering the Techniques of Language: An Emotional Journey through **Consciousness A Mathematical Treatment Of The Neuronal Workspace Model**

In a digitally-driven earth where screens reign great and quick interaction drowns out the subtleties of language, the profound secrets and mental subtleties hidden within phrases usually get unheard. Yet, nestled within the pages of **Consciousness A Mathematical Treatment Of The Neuronal Workspace Model** a captivating literary prize pulsating with natural emotions, lies an extraordinary quest waiting to be undertaken. Penned by a talented wordsmith, this wonderful opus encourages readers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within ab muscles material of every word. Within the emotional depths of the moving evaluation, we can embark upon a sincere exploration of the book is core subjects, dissect their fascinating publishing model, and succumb to the effective resonance it evokes strong within the recesses of readers hearts.

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