

Advanced Series in Neuroscience — Vol. 5

# SOURCES OF CONSCIOUSNESS

The Biophysical and Computational  
Basis of Thought

H S Green & T Triffet

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# Sources Of Consciousness The Biophysical And Computational Basis Of Thought

**Masao Ito, Yasushi Miyashita, Edmund  
T. Rolls**



## **Sources Of Consciousness The Biophysical And Computational Basis Of Thought:**

**Sources Of Consciousness: The Biophysical And Computational Basis Of Thought** Herbert Sydney Green, Terry T Triffet, 1997-07-01 The phenomenon of consciousness has long been one of the great mysteries of life perhaps because it is inexplicable in terms of the deterministic theories of classical science Today there is some consensus that the key to the understanding of the workings of the mind should be sought in the area of indeterministic quantum mechanics but until recently there has been little substantial progress in unravelling the mystery This book is the culmination of several decades of research by the authors in the physical sciences neurosciences and computer sciences with comprehensive summaries and references to related work by many other scientists and presents important advances toward solving the problem Written for the most part in plain language but supported by appropriate symbolism the book is truly interdisciplinary designed for the needs of a wide variety of students and scholars

**Computational Intelligence: A Compendium** John Fulcher, L. C. Jain, 2008-06-16 Computational Intelligence A Compendium presents a well structured overview about this rapidly growing field with contributions of leading experts in Computational Intelligence The main focus of the compendium is on applied methods tried and proven effective to realworld problems which is especially useful for practitioners researchers students and also newcomers to the field The 25 chapters are grouped into the following themes I Overview and Background II Data Preprocessing and Systems Integration III Artificial Intelligence IV Logic and Reasoning V Ontology VI Agents VII Fuzzy Systems VIII Artificial Neural Networks IX Evolutionary Approaches X DNA and Immune based Computing

**Harmony, Perspective, and Triadic Cognition** Norman D. Cook, 2012 The big question in the science of psychology is why is human cognition and behavior so different from the capabilities of every other animal species on Earth including our close genetic relations the chimpanzees This book provides a coherent answer by examining those aspects of the human brain that have made triadic forms of perception and cognition possible Mechanisms of dyadic association sufficiently explain animal perception cognition and behavior but a three way associational mechanism is required to explain the human talents for language tool making harmony perception pictorial depth perception and the joint attention that underlies all forms of social cooperation

**Understanding Brain and Mind** Yehuda Salu, 2001 How can we understand a system as complex as the brain Does the brain use the same operational principles to control physical and mental activities How can we incorporate in a model what we know and what we do not know about the brain The connectionist model presented in this book provides tools for addressing such questions Its nodes represent well established biological facts combined with observations of the overall behaviors of the system The model is based on comparing and contrasting brains computers and neural networks It defines a framework for understanding the relationships between the brain and the mind It can serve both as a starting point for developing Artificial Intelligence applications for all levels of mental activities and as a guide in the search for biological correlates of observed behaviors

**Forthcoming Books** Rose Arny, 2002 *Whitaker's Books in Print*, 1998 **Subject**

**Guide to Books in Print** ,1997      *Biophysics Of Consciousness: A Foundational Approach* Roman R Poznanski,Jack A Tuszynski,Todd E Feinberg,2016-08-25 The problem of how the brain produces consciousness subjectivity and something it is like to be remains one of the greatest challenges to a complete science of the natural world While various scientists and philosophers approach the problem from their own unique perspectives and in the terms of their own respective fields *Biophysics of Consciousness A Foundational Approach* attempts a consilience across disparate disciplines to explain how it is possible that an objective brain produces subjective experience This volume unites the cr me de la cr me of physicists neuroscientists and psychiatrists in the attempt to understand consciousness through a foundational approach encompassing ontological evolutionary neurobiological and Freudian interpretations with the focus on conscious phenomena occurring in the brain By integrating the perspectives of these diverse disciplines with the latest research and theories on the biophysics of the brain the book tries to explain how consciousness can be an adaptive and causal element in the natural world

*Consciousness in Four Dimensions* Richard M. Pico,2002 Richard M Pico unveils a revolutionary new approach to understanding consciousness that pinpoints its origins in the brain Called Rbiological relativity S the approach combines the laws of physics to the latest breakthroughs in neuroscience molecular biology and computational theory to create a coherent four dimensional model for explaining the origins of life and the emergence of complex biological systems from the living cell to the thinking brain      *The Neuron in Context* Vanessa Lux,2024-09-17 Neuroscience has largely abandoned its localizationist and mechanistic framework of the 20th century The plastic embodied and network character of our nervous system is widely acknowledged and systems theory approaches to consciousness dominate the field However the underlying neuron theory has not changed The neuron doctrine conceptualizing the single neuron as atomistic one directional source of neural function still provides the template for our understanding of these basic elements of our nervous system and the material foundation of consciousness Yet the single neuron does not exist as an isolated unit It is embedded within multiple cellular structural and functional contexts and highly depends on them for its development neural activity and survival The book discusses the constraints of the neuron doctrine and its pragmatic reductionism in the light of the growing knowledge about the brain s connectivity plasticity and systemic and embodied nature To overcome these constraints the author argues for a new neuron theory depicting the neuron as bidirectional hub which is at the same time source and product of neural function This bidirectionality is further characterized by spatial and time dimensions placing the neuron within a multi level pathway model of psychobiological development from the perspective of Developmental Embodiment Research Furthermore the author discusses the potential of neuroepigenetic markers to characterize the neuron and its range of plasticity within this developmental perspective With its focus on neuroepigenetics the book addresses a knowledge gap in the current study of the neural foundations of psychological functions The multi level and bidirectional perspective is already realized in approaches coming from developmental systems theory which model neural function at the connectome level and it also fits

with approaches investigating feedback loops underlying neural activity at the single cell level. At both these levels the spatial and the time dimensions are well characterized either as changing connectivity patterns across different age groups or as synaptic feedback loops underlying neural activation patterns. However for the intermediate level of small neural populations which is currently the main target for studies investigating the neural basis of specific psychological functions this characterization turned out to be more challenging. Multi cell recordings have provided a first glimpse into the complex interaction patterns of these small neural networks but they are limited to the recording period and do not provide information about the long term developmental and activation history. Here neuroepigenetic markers could be of use. Due to their relative stability and at the same time environmental sensitivity neuroepigenetic markers represent an additional layer of information in which to a certain degree the cell's metabolic and activation history is aggregated over time. This information is available at the single neuron level but could also be modeled as aggregated information for small neural populations and the supporting cellular context. Looking through this epigenetic lens adds to our understanding of the neuron as bidirectional hub by emphasizing the molecular correlates of functional stabilization and their contextual prerequisites. These prerequisites reach from the immediate cellular context to the social cultural contexts which shape the culturally specific modes of acquisition of psychological functions throughout the lifespan. Accounting for this multilayered contextuality of the neuron and its function affords to reposition the relationship between neuroscience and psychology in their joint effort to unravel the material basis of consciousness. This provides new challenges but also new perspectives for theoretical psychology. The book presents these current developments and debates to researchers, graduate students and interested professionals and practitioners working in neuroscience, epigenetics, psychiatry, psychology and psychotherapy. It also provides a basic introduction into neuroepigenetics, its mechanisms and first findings for graduate students as well as interested professionals and practitioners working in psychiatry, psychology and psychotherapy.

**Consciousness and Neural Plasticity** Morten Overgaard, Mads Jensen, 2012-01-01. In contemporary consciousness studies the phenomenon of neural plasticity has received little attention despite the fact that neural plasticity is of still increased interest in neuroscience. We will however argue that neural plasticity could be of great importance to consciousness studies. If consciousness is related to neural processes it seems at least prima facie that the ability of the neural structures to change should be reflected in a theory of this relationship. Neural plasticity refers to the fact that the brain can change due to its own activity. The brain is not static but rather a dynamic entity which physical structure changes according to its use and environment. This change may take the form of growth of new neurons, the creation of new networks and structures and change within network structures that is changes in synaptic strengths. Plasticity raises questions about the relation between consciousness and brain functions. If consciousness is connected to specific brain structures as a function or in identity what happens to consciousness when those specific underlying structures change. It is therefore possible that the understanding and theories of neural plasticity

can have direct consequences for a theory about consciousness. For instance, theories of strict identity between consciousness and structure may face the serious dilemma to either accept that say the experience of the colour red is fundamentally different in one individual over time due to cortical changes or to abandon the strong identity thesis altogether. Were one to pursue a theory according to which consciousness is not an epiphenomenon to brain processes, consciousness may in fact affect its own neural basis. The neural correlate of consciousness is often seen as a stable structure that is something that is stable over time. Considering neural plasticity, this is not necessarily so. The NCC might change and hence literally change the way a person is conscious. What it is about the NCC that can and might change is even though it can be relevant for the relation between the brain and consciousness is still an unanswered question. There are hence a lot of questions that might shed light upon the relevant but unknown relations between consciousness and the brain. Therefore, We hereby propose to do a Research Topic on consciousness and neural plasticity to shed light on these underestimated issues. In contemporary consciousness studies, the phenomenon of neural plasticity has received little attention despite the fact that neural plasticity is of still increased interest in neuroscience. We will however argue that neural plasticity could be of great importance to consciousness studies. If consciousness is related to neural processes, it seems at least *prima facie* that the ability of the neural structures to change should be reflected in a theory of this relationship. Neural plasticity refers to the fact that the brain can change due to its own activity. The brain is not static but rather a dynamic entity which physical structure changes according to its use and environment. This change may take the form of growth of new neurons, the creation of new networks and structures and change within network structures that is changes in synaptic strengths. Plasticity raises questions about the relation between consciousness and brain functions. If consciousness is connected to specific brain structures as a function or in identity, what happens to consciousness when those specific underlying structures change? It is therefore possible that the understanding and theories of neural plasticity can have direct consequences for a theory about consciousness. For instance, theories of strict identity between consciousness and structure may face the serious dilemma to either accept that say the experience of the colour red is fundamentally different in one individual over time due to cortical changes or to abandon the strong identity thesis altogether. Were one to pursue a theory according to which consciousness is not an epiphenomenon to brain processes, consciousness may in fact affect its own neural basis. The neural correlate of consciousness is often seen as a stable structure that is something that is stable over time. Considering neural plasticity, this is not necessarily so. The NCC might change and hence literally change the way a person is conscious. What it is about the NCC that can and might change is even though it can be relevant for the relation between the brain and consciousness is still an unanswered question. There are hence a lot of questions that might shed light upon the relevant but unknown relations between consciousness and the brain. Therefore, We hereby propose to do a Research Topic on consciousness and neural plasticity to shed light on these underestimated issues.

**Annual Report, Division of Biology ..., California Institute of**

**Technology, Pasadena, CA.** California Institute of Technology. Division of Biology, 2002      **Neural Masses and Fields: Modelling the Dynamics of Brain Activity** Karl Friston, 2015-05-25 Biophysical modelling of brain activity has a long and illustrious history and has recently profited from technological advances that furnish neuroimaging data at an unprecedented spatiotemporal resolution Neuronal modelling is a very active area of research with applications ranging from the characterization of neurobiological and cognitive processes to constructing artificial brains in silico and building brain machine interface and neuroprosthetic devices Biophysical modelling has always benefited from interdisciplinary interactions between different and seemingly distant fields ranging from mathematics and engineering to linguistics and psychology This Research Topic aims to promote such interactions by promoting papers that contribute to a deeper understanding of neural activity as measured by fMRI or electrophysiology In general mean field models of neural activity can be divided into two classes neural mass and neural field models The main difference between these classes is that field models prescribe how a quantity characterizing neural activity such as average depolarization of a neural population evolves over both space and time as opposed to mass models which characterize activity over time only by assuming that all neurons in a population are located at approximately the same point This Research Topic focuses on both classes of models and considers several aspects and their relative merits that span from synapses to the whole brain comparisons of their predictions with EEG and MEG spectra of spontaneous brain activity evoked responses seizures and fitting data to infer brain states and map physiological parameters      Energy Research Abstracts ,1985      The Handbook of Brain Theory and Neural Networks Michael A. Arbib, 2003 This second edition presents the enormous progress made in recent years in the many subfields related to the two great questions how does the brain work and How can we build intelligent machines This second edition greatly increases the coverage of models of fundamental neurobiology cognitive neuroscience and neural network approaches to language Midwest      **International Books in Print** ,1990      Books in Series ,1979      *Joyce in the Belly of the Big Truck; Workbook* Joyce A. Cascio, 2005-05      **Consciousness In Four Dimensions: Biological Relativity and the Origins of Thought** Richard M. Pico, 2001-11-07 In a book that will profoundly alter the modern discourse on mind and influence the practice of neuromedicine neurobiologist neuropsychiatrist Richard M Pico unveils a revolutionary new approach to understanding consciousness that pinpoints its origins in the brain Called Biological Relativity the approach combines the laws of physics especially Einstein's laws of relativity to the latest breakthroughs in neuroscience molecular biology and computational theory to create a coherent four dimensional model for explaining the origins of life and the emergence of complex biological systems from the living cell to the thinking brain In a fascinating ambitious narrative that draws upon a lifetime of experimental and clinical work Dr Pico tells a riveting story that begins in the imponderably distant past with the first proto cell that endured long enough to become its own frame of reference both structurally and temporally and culminates with the most complex biological referent system known to science the human brain He then elaborates his

groundbreaking theory through discussions of such things as the origins of language music and mathematics He explains why he believes consciousness is uniquely human and explores the causes and potential treatments for a variety of thought disorders

*Cognition, Computation, and Consciousness* Masao Ito, Yasushi Miyashita, Edmund T. Rolls, 1997-05-29

The topic of consciousness is truly multidisciplinary attracting researchers and theorists from diverse backgrounds It is now widely accepted that previously disparate areas all have contributions to make to the understanding of the nature of consciousness Thus we now have computational scientists neuroscientists and philosophers all engaged in the same effort This book illustrates these three approaches with chapters provided by some of the most important and provocative figures in the field The first section is concerned with philosophical approaches to consciousness One of the fundamental issues here is that of subjective feeling or qualia The second section focuses on approaches from cognitive neuroscience Patients with different types of neurological problems and new imaging techniques provide rich sources of data for studying how consciousness relates to brain function The third section includes computational approaches looking at the quantitative relationship between brain processes and conscious experience *Cognition Computation and Consciousness* represents a uniquely integrated and current account of this most fascinating and intractable subject



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