

Robert Kozma
Walter J. Freeman

Cognitive Phase Transitions in the Cerebral Cortex – Enhancing the Neuron Doctrine by Modeling Neural Fields

Pdf Cognitive Phase Transitions Cerebral Cortex

Alistair Steyn-Ross



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Self-Organization in the Nervous System Yan M. Yufik, Biswa Sengupta, Karl Friston, 2017-11-30 This special issue reviews state of the art approaches to the biophysical roots of cognition. These approaches appeal to the notion that cognitive capacities serve to optimize responses to changing external conditions. Crucially, this optimisation rests on the ability to predict changes in the environment, thus allowing organisms to respond pre-emptively to changes before their onset. The biophysical mechanisms that underwrite these cognitive capacities remain largely unknown, although a number of hypotheses has been advanced in systems neuroscience, biophysics and other disciplines. These hypotheses converge on the intersection of thermodynamic and information theoretic formulations of self-organization in the brain. The latter perspective emerged when Shannon's theory of message transmission in communication systems was used to characterise message passing between neurons. In its subsequent incarnations, the information theory approach has been integrated into computational neuroscience and the Bayesian brain framework. The thermodynamic formulation rests on a view of the brain as an aggregation of stochastic microprocessors, neurons, with subsequent appeal to the constructs of statistical mechanics and thermodynamics. In particular, the use of ensemble dynamics to elucidate the relationship between micro-scale parameters and those of the macro-scale aggregation of the brain. In general, the thermodynamic approach treats the brain as a dissipative system and seeks to represent the development and functioning of cognitive mechanisms as collective capacities that emerge in the course of self-organization. Its explicanda include energy efficiency enabling progressively more complex cognitive operations such as long-term prediction and anticipatory planning. A cardinal example of the Bayesian brain approach is the free energy principle that explains self-organizing dynamics in the brain in terms of its predictive capabilities and selective sampling of sensory inputs that optimise variational free energy as a proxy for Bayesian model evidence. An example of thermodynamically grounded proposals in this issue associates self-organization with phase transitions in neuronal state spaces, resulting in the formation of bounded neuronal assemblies, neuronal packets. This special issue seeks a discourse between thermodynamic and informational formulations of the self-organising and self-evidencing brain. For example, could minimization of thermodynamic free energy during the formation of neuronal packets underlie minimization of variational free energy?

Brain-mind Machinery: Brain-inspired Computing And Mind Opening Gee-wah Ng, 2009-03-30 Brain and mind continue to be a topic of enormous scientific interest. With the recent advances in measuring instruments such as two-photon laser scanning microscopy and fMRI, the neuronal connectivity and circuitry of how the brain's various regions are hierarchically interconnected and organized are better understood now than ever before. By reverse engineering the brain, computer scientists hope to build cognitively intelligent systems that will revolutionize the artificial intelligence paradigm. *Brain Mind Machinery* provides a walkthrough to the world of brain-inspired computing and mind-related questions. Bringing together diverse viewpoints and expertise from multidisciplinary communities, the book explores the human quest to build a

thinking machine with human like capabilities Readers will acquire a first hand understanding of the brain and mind mechanisms and machineries as well as how much we have progressed in and how far we are from building a truly general intelligent system like the human brain From Electrons to Elephants and Elections Shyam Wuppuluri,Ian Stewart,2022-04-08 This highly interdisciplinary book covering more than six fields from philosophy and sciences all the way up to the humanities and with contributions from eminent authors addresses the interplay between content and context reductionism and holism and their meeting point the notion of emergence Much of today s science is reductionist bottom up in other words behaviour on one level is explained by reducing it to components on a lower level Chemistry is reduced to atoms ecosystems are explained in terms of DNA and proteins etc This approach fails quickly since we can t cannot extrapolate to the properties of atoms solely from Schr dinger s equation nor figure out protein folding from an amino acid sequence or obtain the phenotype of an organism from its genotype An alternative approach to this is holism top down Consider an ecosystem or an organism as a whole seek patterns on the same scale Model a galaxy not as 400 billion point masses stars but as an object in its own right with its own properties spiral elliptic Or a hurricane as a structured form of moist air and water vapour Reductionism is largely about content whereas holistic models are more attuned to context Reductionism content and holism context are not opposing philosophies in fact they work best in tandem Join us on a journey to understand the multifaceted dialectic concerning this duo and how they shape the foundations of sciences and humanities our thoughts and the very nature of reality itself **Artificial Intelligence in the Age of Neural Networks and Brain Computing** Robert Kozma,Cesare Alippi,Yoonsuck Choe,Francesco Carlo Morabito,2023-10-11 Artificial Intelligence in the Age of Neural Networks and Brain Computing Second Edition demonstrates that present disruptive implications and applications of AI is a development of the unique attributes of neural networks mainly machine learning distributed architectures massive parallel processing black box inference intrinsic nonlinearity and smart autonomous search engines The book covers the major basic ideas of brain like computing behind AI provides a framework to deep learning and launches novel and intriguing paradigms as possible future alternatives The present success of AI based commercial products proposed by top industry leaders such as Google IBM Microsoft Intel and Amazon can be interpreted using the perspective presented in this book by viewing the co existence of a successful synergism among what is referred to as computational intelligence natural intelligence brain computing and neural engineering The new edition has been updated to include major new advances in the field including many new chapters Developed from the 30th anniversary of the International Neural Network Society INNS and the 2017 International Joint Conference on Neural Networks IJCNN Authored by top experts global field pioneers and researchers working on cutting edge applications in signal processing speech recognition games adaptive control and decision making Edited by high level academics and researchers in intelligent systems and neural networks Includes all new chapters including topics such as Frontiers in Recurrent Neural Network Research Big Science

Team Science Open Science for Neuroscience A Model Based Approach for Bridging Scales of Cortical Activity A Cognitive Architecture for Object Recognition in Video How Brain Architecture Leads to Abstract Thought Deep Learning Based Speech Separation and Advances in AI Neural Networks **Identification of Potential Terrorists and Adversary**

Planning Theodore J. Gordon, Jerome C. Glenn, Yair Sharan, 2017-03-15 Never before have technological advances had so great an impact on security not only increasing the nature and level of threats but also for the possibility of providing the means to address the threats Technologies that could increase security include ubiquitous and omnipresent surveillance systems the use of new algorithms for big data improving bio and psycho metrics and artificial intelligence and robotics Yet trustworthy and reliable partners and an active and alert society remain sine qua non to reduce terrorism To my mind this publication is one of the best studies of modern terrorism and what to do about it that we have at our disposal So I am confident that it will find a wide readership not only in academic or think tank circles but even more importantly among policy makers and government officials They stand to benefit most and they can afford least of all to ignore the important conclusions and recommendations that this wise publication has provided Jamie SHEA Deputy Assistant Secretary General Emerging Security Challenges Division NATO **Proceedings, 30th Applied Imagery Pattern Recognition Workshop**

Charles J. Cohen, 2001 Annotation Thirty one papers from an October 2001 conference held in Washington DC focus on techniques and algorithms for dealing with time varying imagery that is extracting information from sequences of images or video for use in recognition identification and control Conference participants represented academia industry and government topics included applications in medicine assisted target recognition and human computer interaction as well as video extraction and tracking c Book News Inc **Psychology Express: Developmental Psychology (Undergraduate**

Revision Guide) Penney Upton, Dominic Upton, 2014-02-19 This revision guide provides concise coverage of the central topics within Developmental Psychology presented within a framework designed to help you focus on assessment and exams The guide is organised broadly chronologically but with a topical focus in tune with the majority of courses Sample questions assessment advice and exam tips drive the organisation within chapters so you are able to grasp and marshal your thoughts towards revision of the main topics Features focused on critical thinking practical applications and key research will offer additional pointers for you in your revision process and exam preparation A companion website provides supporting resources for self testing exam practice answers to questions in the book and links to further resources Aerospace Medicine and

Biology , 1986 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Understanding the Brain: The Birth of a Learning Science** OECD, 2007-06-25

This book provides new insights about learning by synthesising existing and emerging findings from cognitive and brain science **Thomson Advantage: Psychology** Dennis Coon, John O. Mitterer, 2007-03 A psychology text that you ll actually

want to read PSYCHOLOGY A JOURNEY is guaranteed to spark your curiosity insight imagination and interest Using the proven SQ4R Survey Question Read Recite Relate and Review active learning system to help you study smarter Coon leads you to an understanding of major concepts as well as how psychology relates to the challenges of everyday life Each chapter of this book takes you into a different realm of psychology such as personality abnormal behavior memory consciousness and human development Each realm is complex and fascinating with many pathways landmarks and detours to discover Take the journey and find yourself becoming actively involved with the material as you develop a basic understanding of psychology that will help you succeed in this course and enrich your life

Modeling Phase Transitions in the Brain

Alistair Steyn-Ross, Moira Steyn-Ross, 2010-02-01 Foreword by Walter J Freeman The induction of unconsciousness using anesthetic agents demonstrates that the cerebral cortex can operate in two very different behavioral modes alert and responsive vs unaware and quiescent But the states of wakefulness and sleep are not single neuron properties they emerge as bulk properties of cooperating populations of neurons with the switchover between states being similar to the physical change of phase observed when water freezes or ice melts Some brain state transitions such as sleep cycling anesthetic induction epileptic seizure are obvious and detected readily with a few EEG electrodes others such as the emergence of gamma rhythms during cognition or the ultra slow BOLD rhythms of relaxed free association are much more subtle The unifying theme of this book is the notion that all of these bulk changes in brain behavior can be treated as phase transitions between distinct brain states Modeling Phase Transitions in the Brain contains chapter contributions from leading researchers who apply state space methods network models and biophysically motivated continuum approaches to investigate a range of neuroscientifically relevant problems that include analysis of nonstationary EEG time series network topologies that limit epileptic spreading saddle node bifurcations for anesthesia sleep cycling and the wake sleep switch prediction of dynamical and noise induced spatiotemporal instabilities underlying BOLD alpha and gamma band Hopf oscillations gap junction moderated Turing structures and Hopf Turing interactions leading to cortical waves

International Aerospace Abstracts

,1992 Society for Neuroscience Abstracts Society for Neuroscience. Annual Meeting,1998

Modelling the

Anaestheto-dynamic Phase Transition of the Cerebral Cortex Alistair Steyn-Ross,2002 *Modelling the Spatial Effects of the Anaesthetic-induced Phase-transition in the Cerebral Cortex* David Robin Whiting,2003 Phase Transitions in Grey

Matter Joaquín Marro,Joaquín J. Torres,2020 Phase Transitions in Grey Matter Brain Architecture and Mind Dynamics relates the complex systems that we know as mind and brain to simple concepts in physics such as phase transition and criticality and establishes a close mathematical link between them A serious review of live issues in science from interaction and correlation to emergence scale invariance attractors noise and chaos this book demonstrates their relevance to intelligence and consciousness

Quantum Brain Dynamics and Consciousness Mari Jibu,Kunio Yasue,1995-01-01 This change of perspective results in a radically new vision of how the brain functions

A Dynamic Systems Approach to the

Development of Cognition and Action Esther Thelen, Linda B. Smith, 1994 A Dynamic Systems Approach to the Development of Cognition and Action presents a comprehensive and detailed theory of early human development based on the principles of dynamic systems theory Beginning with their own research in motor perceptual and cognitive development Thelen and Smith raise fundamental questions about prevailing assumptions in the field They propose a new theory of the development of cognition and action unifying recent advances in dynamic systems theory with current research in neuroscience and neural development In particular they show how by processes of exploration and selection multimodal experiences form the bases for self organizing perception action categories Thelen and Smith offer a radical alternative to current cognitive theory both in their emphasis on dynamic representation and in their focus on processes of change Among the first attempt to apply complexity theory to psychology they suggest reinterpretations of several classic issues in early cognitive development The book is divided into three sections The first discusses the nature of developmental processes in general terms the second covers dynamic principles in process and mechanism and the third looks at how a dynamic theory can be applied to enduring puzzles of development Cognitive Psychology series *Susceptibility of Reasoning Level to Change* Winston Ernest Markwalder, 1973 *Origins of the Modern Mind* Merlin Donald, 1991 This bold and brilliant book asks the ultimate question of the life sciences How did the human mind acquire its incomparable power In seeking the answer Merlin Donald traces the evolution of human culture and cognition from primitive apes to artificial intelligence presenting an enterprising and original theory of how the human mind evolved from its presymbolic form

Enjoying the Beat of Expression: An Mental Symphony within **Pdf Cognitive Phase Transitions Cerebral Cortex**

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