

Robert Kozma
Walter J. Freeman

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

Book Cognitive Phase Transitions Cerebral Cortex

Arash Salardini, Jose Biller



Book Cognitive Phase Transitions Cerebral Cortex:

Cognitive Phase Transitions in the Cerebral Cortex - Enhancing the Neuron Doctrine by Modeling Neural Fields Robert Kozma, Walter J. Freeman, 2015-10-30 This intriguing book was born out of the many discussions the authors had in the past 10 years about the role of scale free structure and dynamics in producing intelligent behavior in brains The microscopic dynamics of neural networks is well described by the prevailing paradigm based in a narrow interpretation of the neuron doctrine This book broadens the doctrine by incorporating the dynamics of neural fields as first revealed by modeling with differential equations K sets The book broadens that approach by application of random graph theory neuropercolation The book concludes with diverse commentaries that exemplify the wide range of mathematical conceptual approaches to neural fields This book is intended for researchers postdocs and graduate students who see the limitations of network theory and seek a beachhead from which to embark on mesoscopic and macroscopic neurodynamics *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 Biological Robustness Marta Bertolaso, Silvia Caianiello, Emanuele Serrelli, 2019-01-04 This volume reviews examples and notions of robustness at several levels of biological organization It tackles many philosophical and conceptual issues and casts an outlook on the future challenges of robustness studies in the context of a practice oriented philosophy of science The focus of discussion is on concrete case studies These highlight the necessity of a level dependent description of robust biological behaviors Experts from the neurosciences biochemistry ecology biology and the history and the philosophy of life sciences provide a multiplex perspective on the topic Contributions span from protein folding to cell level robustness to organismal and developmental robustness to sensorimotor systems up to the robustness of ecological systems Several chapters detail neurobiological case studies The brain the poster child of plasticity in biology offers multiple examples of robustness Neurobiology explores the importance of temporal organization and multiscalarity in making this robustness with plasticity possible The discussion also includes structures well beyond the brain such as muscles and the complex feedback loops involved in the peculiar robustness of music perception Overall the volume grounds general reflections upon concrete case studies opening to all the life sciences but also to non biological and bio inspired fields such as post modern engineering It will appeal to researchers students as well as non expert readers **Artificial Intelligence Versus Natural**

Intelligence Roger Penrose, Emanuele Severino, Fabio Scardigli, Ines Testoni, Giuseppe Vitiello, Giacomo Mauro D'Ariano, Federico Faggin, 2022-03-24 This book centers around a dialogue between Roger Penrose and Emanuele Severino

about one of most intriguing topics of our times the comparison of artificial intelligence and natural intelligence as well as its extension to the notions of human and machine consciousness Additional insightful essays by Mauro D Ariano Federico Faggin Ines Testoni Giuseppe Vitiello and an introduction of Fabio Scardigli complete the book and illuminate different aspects of the debate Although from completely different points of view all the authors seem to converge on the idea that it is almost impossible to have real intelligence without a form of consciousness In fact consciousness often conceived as an enigmatic mirror of reality but is it really a mirror is a phenomenon under intense investigation by science and technology particularly in recent decades Where does this phenomenon originate from in humans and perhaps also in animals Is it reproducible on some device Do we have a theory of consciousness today Will we arrive to build thinking or conscious machines as machine learning or cognitive computing seem to promise These questions and other related issues are discussed in the pages of this work which provides stimulating reading to both specialists and general readers The Chapter Hard Problem and Free Will An Information Theoretical Approach is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Imaging Brain Function With EEG Walter Freeman, Rodrigo Quiroga, 2012-10-28 The scalp and cortex lie like pages of an open book on which the cortex enciphers vast quantities of information and knowledge They are recorded and analyzed as temporal and spatial patterns in the electroencephalogram and electrocorticogram This book describes basic tools and concepts needed to measure and decipher the patterns extracted from the EEG and ECoG This book emphasizes the need for single trial analysis using new methods and paradigms as well as large high density spatial arrays of electrodes for pattern sampling The deciphered patterns reveal neural mechanisms by which brains process sensory information into precepts and concepts It describes the brain as a thermodynamic system that uses chemical energy to construct knowledge The results are intended for use in the search for the neural correlates of intention attention perception and learning in the design of human brain computer interfaces enabling mental control of machines and in exploring and explaining the physicochemical foundation of biological intelligence

[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 [Bridging the Gap between Life and Physics](#) Ron Cottam, Willy Ranson, 2018-03-19 This is the only book which deals with the correlatory comparison between hierarchical living systems and inorganic physical ones The culmination of the book is the proposition of research to discover and understand the natural underlying level of organization which produces the descriptive commonality of life and physics Traditional science eliminates life from its purview by its rejection of interrelationships as a primary content of systems The conventional procedure of science is that of reductionism whereby complex systems are dismantled to characterize lower level components but virtually no attention is given to how to rebuild those systems the underlying assumption is that analysis and synthesis are symmetrical This book fulfills two main coupled functions Firstly it details hierarchy as the major formulation of natural complex systems and investigates the fundamental character of natural hierarchy as a widely transferable container of structure and or function and this in the case of the new development of a representational or model hierarchy Secondly it couples this hierarchical description to that of the electronic properties of semiconductors as a well modeled canonical example of physical properties The central thesis is that these two descriptions are comparable if care is taken to treat logical and epistemological aspects with prudence a large part of the book is composed of just this aspect of care for grounding consistency As such great attention is given to correct assessment of argumentative features which are otherwise presumed known but which are usually left uncertain Development of the ideas is always based on a relationship between entity or phenomenon and their associated ecosystems and this applies equally well to the consequent derivations of consciousness and information *Learning and Memory: A Comprehensive Reference*, 2017-07-07 Learning and Memory A Comprehensive Reference Second Edition Four Volume Set is the authoritative resource for scientists and students interested in all facets of learning and memory This updated edition includes chapters that reflect the state of the art of research in this area Coverage of sleep and memory has been significantly expanded while neuromodulators in memory processing neurogenesis and epigenetics are also covered in greater detail New chapters have been included to reflect the massive increase in research into working memory and the educational relevance of memory research No other reference work covers so wide a territory and in so much depth Provides the most comprehensive and authoritative resource available

on the study of learning and memory and its mechanisms Incorporates the expertise of over 150 outstanding investigators in the field providing a one stop resource of reputable information from world leading scholars with easy cross referencing of related articles to promote understanding and further research Includes further reading for each chapter that helps readers continue their research Includes a glossary of key terms that is helpful for users who are unfamiliar with neuroscience terminology

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 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

Response Dynamics of the Rat Entorhinal Cortex to Olfactory Input Kurt Franklin Ahrens, 1998

The Hospital Neurology Book Arash Salardini, Jose Biller, 2016-04-22 A practical protocol oriented guide to the practice of neurology in the hospital setting A Doody s Core Title for 2019 Hospital neurology is one of the fastest growing subspecialties within neurology Running an efficient and effective neurohospitalist line is important to the financial

success of hospitals and the physicians employed there Many neurology patients also have internal medicine problems and often it is a general hospitalist without neurology training who treat these patients These physicians sorely need more information on neurology Conversely neurologists caring for these patients have only had one year of internal medicine training and require more guidance on medical problems Given these realities there is a need for a resource on hospital neurology With *The Hospital Neurology Book* Drs Salardini and Biller have created a practical concise and useful work that guides both neurologists and internists in the areas in which their training is currently not sufficient for hospital practice The *Hospital Neurology Book* features a highly readable format providing information physicians can act upon including recipes and protocols for patient care and question based chapter headings that lead physicians to the exact issue they are dealing with in the moment Each chapter or chapter section as appropriate opens with a case study setting the stage in a highly practical manner and ends with high yield summary points useful for consolidating learning

Modeling Phase Transitions in the Brain D. Alistair Steyn-Ross, Moira Steyn-Ross, 2010-03-14 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

Handbook of Child Psychology, Theoretical Models of Human Development William Damon, Richard M. Lerner, 2006-03-31 Part of the authoritative four volume reference that spans the entire field of child development and has set the standard against which all other scholarly references are compared Updated and revised to reflect the new developments in the field the *Handbook of Child Psychology Sixth Edition* contains new chapters on such topics as spirituality social understanding and non verbal communication Volume 1 *Theoretical Models of Human Development* edited by Richard M Lerner Tufts University explores a variety of theoretical approaches including life span life course theories socio culture theories structural theories object

relations theories and diversity and development theories New chapters cover phenomenology and ecological systems theory positive youth development and religious and spiritual development *Speech Prosody and Timing* Deborah Burleson, Caitlin Dillon, Robert F. Port, 2003 Collective Dynamics: Topics on Competition and Cooperation in the Biosciences L.M. Ricciardi, Aniello Buonocore, Enrica Pirozzi, 2008-07-16 All papers have been peer reviewed The Conference was a program of invited lectures and selected contributed papers of interest to academic communities educators and students both at graduate and undergraduate levels Topics are centered on information processing and coding in the brain and in neuronal systems on quantitative approaches to ecology and population dynamics and on bioinformatics Some talks also focus on current problems in various other areas of applications of mathematics and computational tools to the life sciences **Abstract Book** ,1998 **Handbook of Child Psychology, Cognition, Perception, and Language** William Damon, Richard M. Lerner, 2006-03-31 Publisher Description **Child and Adolescent Development** Kelvin Seifert, Robert J. Hoffnung, 1994 Organized chronologically this is an introduction to the cognitive psychological and physical development of children in the context of today s society The third edition includes sections on contemporary theories ecological ethological cognitive behavioural and neo Piagetian that have helped to reshape how psychologists view development Ancillary package available upon adoption *CSA Neurosciences Abstracts* ,1985 Modeling Phase Transitions in the Brain ,2011-04-11

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