

Towards a unified brain theory

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An approach to collective aspects of the neocortical system is formulated by methods of modern non-equilibrium statistical mechanics. Microscopic neuronal synaptic interactions are first spatially averaged over columnar domains. These spatially averaged domains include well formulated fluctuations that retain contact with the original physical synaptic parameters. They also are a suitable substrate for macroscopic spatial-temporal regions described by Fokker-Planck and Lagrangian formalisms. This development clarifies similarities and differences among previous studies, suggests new analytically supported insights into neocortical function and permits future approximation or elaboration within current paradigms of collective systems.

1. Introduction and rationale

Relative to other biological entities, the intricate synaptic activity of the most highly evolved mammalian human neocortex functions via the most degenerate and the shortest-ranged neuronal interactions. This suggests that many collective aspects of this system may be fruitfully studied similarly to other collective physical systems. I.e. collective effects from clustering of neurons (Szentagotai & Arbib, 1974) or from statistical interactions (Katchalsky, Rowland & Blumenthal, 1974) are proposed to be mechanisms of information processing. In addition to the 'hard-wiring' mechanisms also possessed by other more ordered cortical entities (Afti & Bergman, 1980; Sommerhoff, 1974).

An approach has been recently formulated for this purpose (Ingber, in preparation). Three major divisions of this work, corresponding to Sections IIIA, B and C respectively, will be referred to as SMNI-I, -II, -III, respectively. The preliminary results of this formulation recommend further detailed study of neocortical interactions using this methodology. Insights are gained into neocortical function at several scales of interaction, applicable to other related disciplines as discussed in Sections II and IV. In this sense, the possibility of a 'unified brain theory' is suggested.

Reasonable criteria for any physical approach should include at least three basic features in common with other collective physical systems.

(A) Interactions

Short-ranged neuronal interactions over time periods of several milliseconds should be derived from even more microscopic synaptic activities (Shepherd, 1977) [see Fig. 1(a)].

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A Christian Divorce Christopher Lake, 2016-05-27 Divorce presents individuals with one of life's greatest adversities. And Christians are simply not immune. When it occurs, it must be endured and then overcome. The primary message of *A Christian Divorce* is radically simple: God calls us to live out our faith in every circumstance, including before, during, and after a divorce. To be a Christian, to be a follower of Jesus Christ, means that God has called us to lives of significance, not just on sunny days but on the days when we find ourselves caught in torrential downpours. And divorce is one of the most common downpours experienced in our country. If God can use the gruesome event of a crucifixion as a catalyst for faith, then the same God can certainly turn any hardship, including divorce, into an inspirational force to transform lives. Consequently, whether you or a loved one find yourself on the brink, in the midst, or living in the wake of divorce, *A Christian Divorce* points all who read it to seek Divine Counsel just as aggressively as they seek legal counsel. In a world that is desperately in need of Christians who are fully embracing and modeling the example of Jesus Christ, there is no greater opportunity to live out the Christian faith than through our own families, whether they are intact, broken, or breaking. *A Christian Divorce* encourages and challenges those who find themselves mired in divorce to recognize that now, perhaps more than ever, is crucial time to live out their faith.

The Future of Human Experience J. Zohara Meyerhoff Hieronimus, 2013-07-21 Explores the future predictions of cutting edge scientists, spiritual teachers, and other visionaries, and how we can affect the future. Shares insights from the author's discussions with Dr. Mehmet Oz, Raymond Moody, Larry Dossey, John Perkins, Michael Cremo, Gay Bradshaw, Ray Kurzweil, and many others. Examines what these visionary thinkers foresee for humanity based on current trends in medicine, science, agriculture, history, and other disciplines. Reveals how consciousness affects evolution and Earth's future. For almost three decades, Zohara Hieronimus has interviewed spiritual teachers, cutting edge scientists, ancient wisdom keepers, laboratory tested psychics, and other visionaries on their predictions for the near and far future. While the methods they use are significantly diverse, the similarities in their forecasts are striking. And as Hieronimus reveals, one common theme resonates through them all: the power of human consciousness. Sharing insights from her discussions with Dr. Mehmet Oz, Raymond Moody, Larry Dossey, John Perkins, Michael Cremo, Gay Bradshaw, Ray Kurzweil, and many others, Hieronimus explores what these visionary thinkers foresee for humanity based on current trends in medicine, science, agriculture, Earth history, robotics, and spirituality. She examines natural, extraterrestrial, and man-made events that dramatically altered humanity's course in the past or might in the future, revealing a recurring cycle of catastrophic Earth changes and rebirths of civilization over billions of years. The author explains that as part of the energetic expression of Divinity, we can influence the impact of Earth changes through our actions and intentions. She shows that the consciousness of humanity has the power to affect evolution, enact healing on personal and global levels, and alter even natural systems such as the weather. By studying predictions across a broad range of disciplines, from nano technology to plant intelligence, from today's great minds and from

ancient spiritual traditions Hieronimus shows that we can significantly improve the long term welfare of the Earth by unfolding our nonlocal consciousness adopting a reverent attitude toward all life and realizing how we do things is as vital as what we do

A Concise Survey of Music Philosophy Donald A. Hodges, 2016-10-04 A Concise Survey of Music Philosophy helps music students choose a philosophy that will guide them throughout their careers The book is divided into three sections central issues that any music philosophy ought to consider e g beauty emotion and aesthetics secondly significant philosophical positions exploring what major thinkers have had to say on the subject and finally opportunities for students to consider the ramifications of these ideas for themselves Throughout the book students are encouraged to make choices that will inform a philosophy of music and music education with which they are most comfortable to align Frequently music philosophy courses are taught in such a way that the teacher as well as the textbook used promotes a particular viewpoint A Concise Survey of Music Philosophy presents the most current prevalent philosophies for consideration Students think through different issues and consider practical applications There are numerous musical examples each with links from the author s home website to online video performances Examples are largely from the Western classical canon but also jazz popular and world music styles In the last two chapters students apply their views to practical situations and learn the differences between philosophy and advocacy Hodges has written an excellent resource for those wanting a short but meaningful introduction to the major concepts in music philosophy Applicable to a number of courses in the music curriculum this much needed book is both accessible and flexible containing musical examples tables and diagrams and additional readings that make it particularly useful for a student s general introduction to the topic I especially like the emphasis on the personal development of a philosophical position which makes the material especially meaningful for the student of music Peter R Webster Scholar in Residence Thornton School of Music University of Southern California USA

The SAGE Handbook of Social Anthropology Richard Fardon, Oliva Harris, Trevor H J Marchand, Cris Shore, Veronica Strang, Richard Wilson, Mark Nuttall, 2012-07-25 In two volumes the SAGE Handbook of Social Anthropology provides the definitive overview of contemporary research in the discipline It explains the what where and how of current and anticipated work in Social Anthropology With 80 authors contributing more than 60 chapters this is the most comprehensive and up to date statement of research in Social Anthropology available and the essential point of departure for future projects The Handbook is divided into four sections Part I Interfaces examines Social Anthropology s disciplinary connections from Art and Literature to Politics and Economics from Linguistics to Biomedicine from History to Media Studies Part II Places examines place region culture and history from regional area studies to a globalized world Part III Methods examines issues of method from archives to war zones from development projects to art objects and from ethics to comparison Part IV Futures anticipates anthropologies to come in the Brain Sciences in post Development in the Body and Health and in new Technologies and Materialities Edited by the leading figures in social anthropology the Handbook includes a substantive

introduction by Richard Fardon a think piece by Jean and John Comaroff and a concluding last word on futures by Marilyn Strathern The authors each at the leading edge of the discipline contribute in depth chapters on both the foundational ideas and the latest research Comprehensive and detailed this magisterial Handbook overviews the last 25 years of the social anthropological imagination It will speak to scholars in Social Anthropology and its many related disciplines *From Animals to Animats 2* Jean-Arcady Meyer, H. L. Roitblat, Stewart W. Wilson, 1993 More than sixty contributions in *From Animals to Animats 2* by researchers in ethology ecology cybernetics artificial intelligence robotics and related fields investigate behaviors and the underlying mechanisms that allow animals and potentially robots to adapt and survive in uncertain environments Jean Arcady Meyer is Director of Research CNRS Paris Herbert L Roitblat is Professor of Psychology at the University of Hawaii at Manoa Stewart W Wilson is a scientist at The Rowland Institute for Science Cambridge Massachusetts Topics covered The Animat Approach to Adaptive Behavior Perception and Motor Control Action Selection and Behavioral Sequences Cognitive Maps and Internal World Models Learning Evolution Collective Behavior **Essays on Neuroscience and Political Theory** F. Vander Valk, 2013-03-01 The past 20 years have seen increasingly bold claims emanating from the field of neuroscience Advances in medical imaging brain modelling and interdisciplinary cognitive science have forced us to reconsider the nature of social cultural and political activities This collection of essays is the first to explore the relationship between neuroscience and political theory with a view to examining what connections can be made and which claims represent a bridge too far The book is divided into three parts Part I places neuroscience as a social and political practice into historical context Part II weaves together the insights from contemporary neuroscience with the wisdom of major figures in the history of political thought Part III considers how neuroscience can inform contemporary debates about a range of issues in political theory This work brings together scholars who are sceptical about the possibility of integrating neuroscience and political theory with proponents of a neuroscience informed approach to thinking about political and social life The result is a timely and wide ranging collection of essays about the role that our brain might play in the life of the body politic It should be essential reading for all those with an interest in the cutting edge of political theory

Exploring Ancient Sounds and Places Margarita Díaz-Andreu, Neemias Santos da Rosa, 2024-12-31 Archaeoacoustics studies historical sound merging archaeology anthropology and psychology to reveal insights about ancient music and acoustic environments Exploring Ancient Sounds and Places Theoretical and Methodological Approaches to Archaeoacoustics brings together scholars from diverse academic fields including archaeology anthropology architecture classics history art history and sound engineering to shed light on the role of sound and acoustics in the cultural practices of past societies from various chronologies and locations around the world This innovative volume covers a broad spectrum of topics such as the genesis of archaeological investigations into sound the emergence of speech and song in early humans the cognitive effects of music in ritualistic contexts the acoustic dimensions of rock art sites and the emotional responses elicited by sonorous

activities experienced in these decorated spaces Additionally the book delves into the study of prehistoric musical instruments the use of ethnohistorical sources in archaeoacoustic research the analysis of sound imagery in medieval frescoes and explores historical approaches to the study of specific acoustic parameters and the sonic properties of urban environments Each chapter not only aggregates a wealth of academic perspectives but also bridges the gap between theoretical concepts and the most advanced methods used in this field of research Case studies from all over the world illustrate the different ways in which ancient communities perceived and engaged with sound and the acoustics of the landscapes in which they were immersed Exploring Ancient Sounds and Places is an essential resource for scholars and students interested in archaeoacoustics and how sound has shaped the cognitive cultural and spiritual facets of human societies across time and space

Towards a Theory of Life-Writing Marija Krsteva, 2022-11-30 Towards a Theory of Life Writing Genre Blending provides a look into the rules of life writing genre blending proposing a theory to explain and illustrate the main regulations governing such genre play It centers on fact and fiction duality in the formation of auto biofictional genres This book investigates the existing developments in this field and explores major criticism and lines of inquiry in order to arrive at the theory of life writing genre play textuality The specific interplay of the different generic characteristics develops a specific textuality at the heart of it This is termed biofictional preservation biopreservation to explain the textual transformation and the shaping of the auto biofictional genres Written for undergraduate and graduate students but also for the general readers the book further exemplifies the theory in the analyses of different biofictions about the American authors F Scott Fitzgerald and Ernest Hemingway featuring overlapping and juxtaposed material This volume aims to provide a theory of this specific textuality in order to better understand and approach the process in question as well as to open up new horizons for further study and exploration

Domain Decomposition Methods in Science and Engineering Alfio Quarteroni, 1994 This book contains the proceedings of the Sixth International Conference on Domain Decomposition held in June 1992 in Como Italy Much of the work in this field focuses on developing numerical methods for large algebraic systems

The Monkey in the Machine Javier Reyes, 2025-03-10 This book explores the provocative hypothesis of whether it is ethical to grant legal personality to artificial general intelligence AGI It delves into the nature of AGI contrasting it with narrow AI and examining its capabilities and limitations The concept of legal personality is dissected drawing parallels with corporate entities and historical precedents Ethical theories are applied to assess the moral status and potential rights and responsibilities of AGI The book addresses the practical implications of such a paradigm shift including regulatory socio economic and technological challenges It incorporates case studies thought experiments and comparative analyses of international legal systems Public perception cultural attitudes and media influence are also considered highlighting societal impacts and the importance of education Counterarguments and ethical dilemmas are explored presenting alternative viewpoints and solutions to potential controversies The concluding chapters look towards the future

offering recommendations for policy and practice This comprehensive examination is supported by additional resources making it an essential read for anyone interested in the intersection of ethics law and advanced AI

Classical Concert Studies Martin Tröndle, 2020-09-01 Classical Concert Studies A Companion to Contemporary Research and Performance is a landmark publication that maps out a new interdisciplinary field of Concert Studies offering fresh ways of understanding the classical music concert in the twenty first century It brings together essays research articles and case studies from scholars and music professionals including musicians music managers and concert designers Gathering both historical and contemporary cases the contributors draw on approaches from sociology ethnology musicology cultural studies and other disciplines to create a rich portrait of the classical concert s past present and future Based on two earlier volumes published in German under the title *Das Konzert* The Concert and with a selection of new chapters written for the English edition this companion enables students researchers and practitioners in the classical and contemporary music fields to understand this emerging field of research go beyond traditional disciplinary boundaries and methodologies and spark a renaissance for the classical concert

Mathematical Reviews ,1994

Creative Practice Ethnographies Larissa Hjorth, Anne M. Harris, Kat Jungnickel, Gretchen Coombs, 2019-11-01 Creative Practice Ethnographies focuses on the intersection of creative practice and ethnography and offers new ways to think about the methods practice and promise of research in contemporary interdisciplinary contexts How does creative practice inform new ways of doing ethnography and vice versa What new forms of expression and engagement are made possible as a result of these creative synergies By addressing these questions the authors highlight the important roles that ethnography and creative practice play in socially impactful research This book is aimed at interdisciplinary researchers scholars and students of art design sociology anthropology games media education and cultural studies

Wellbeing Economics Paul Dalziel, Caroline Saunders, Joe Saunders, 2018-09-11 Economists have long sought to maximise economic growth believing this to be their best contribution to improving human welfare That approach is not sustainable in the face of ongoing issues such as global climate change environmental damage rising inequality and enduring poverty Alternatives must be found This open access book addresses that challenge It sets out a wellbeing economics framework that directly addresses fundamental issues affecting wellbeing outcomes Drawing inspiration from the capabilities approach of Nobel Prize winner Amartya Sen the book demonstrates how persons can enhance prosperity through their own actions and through collaboration with others The book examines national public policy but its analysis also focuses on choices made by individuals households families civil society local government and the global community It therefore offers important insights for anyone concerned with improving personal wellbeing and community prosperity

Towards a New Material Aesthetics Alastair Renfrew, 2006 Set in the context of the various materialist approaches to literary aesthetics that emerged in the twentieth century Renfrew s study presents a new synthesis of the work of Mikhail Bakhtin 1895 1975 and his circle Russian Formalism and elements of the official ideology of the early

Soviet period The book's central aim in offering such a synthesis is to negotiate the poles of postmodernist subjectivism and traditional materialism around which much current literary and critical theory has stagnated and as the title suggests to point the way towards a newly conceived material basis for textual and literary analysis

Theories of Consciousness

William Seager, 2002-01-31 The most remarkable fact about the universe is that certain parts of it are conscious Somehow nature has managed to pull the rabbit of experience out of a hat made of mere matter Making its own contribution to the current lively debate about the nature of consciousness Theories of Consciousness introduces variety of approaches to consciousness and explores to what extent scientific understanding of consciousness is possible Including discussion of key figures such as Descartes Fodor Dennett and Chalmers the book covers identity theories representational theories intentionality externalism and the new information based theories

Perceptual Experience

Tamar Gendler, John P. Hawthorne, 2006 In the last few years there has been an explosion of philosophical interest in perception after decades of neglect it is now one of the most fertile areas for new work Perceptual Experience presents new work by fifteen of the world's leading philosophers All papers are written specially for this volume and they cover a broad range of topics dealing with sensation and representation consciousness and awareness and the connections between perception and knowledge and between perception and action This will be the book on the philosophy of perception a fascinating resource for philosophers and psychologists

Journal of Dispute Resolution, 2008

A Basic Theory of Everything

Atle Ottesen Søvik, 2022-04-04 What are the basic building blocks of the world This book presents a naturalistic theory saying that the universe and everything in it can be reduced to three fundamental entities a field a set of values that can be actualized at different places in the field and an actualizer of the values The theory is defended by using it to answer the main questions in metaphysics such as What is causality existence laws of nature consciousness thinking free will time mathematical entities ethical values etc The theory is compared with the main alternatives and argued to solve problems better than the existing theories Several new theories are suggested such as how to understand mental causation free will and the truth of ethics and mathematics

Handbook on the Economics of Happiness

L. Bruni, 2007-01-01 This book is a welcome consolidation and extension of the recent expanding debates on happiness and economics Happiness and economics as a new field for research is now of pivotal interest particularly to welfare economists and psychologists

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