

Answer For Physics Objective Neco 2014

Physics S. Hari Haran 1984

Bridging Computation, Biophysics, Medicine, and Engineering in Neural Circuits

Haruyuki Kamiya 2026-03-19 Neural circuits in the brain are highly sophisticated biological systems, orchestrating ultra-fast, parallel computations that integrate sensory inputs, motor outputs, and internal memory processes. Notably, biological neural circuits can process signals extremely efficiently with far less energy consumption compared to conventional digital computing. Unraveling the mechanisms behind this energy-efficient computation is a highly compelling frontier in neuroscience research. This Research Topic aims to foster a multidisciplinary dialogue that bridges gaps and catalyzes collaborations among neuroscientists from diverse fields. We seek to facilitate a mutual understanding between *in silico*, *in vitro*, and *in vivo* researchers, overcoming the historical barriers posed by limited information exchange. Contributions are invited across a spectrum of disciplines, including computational neuroscience, biophysics, neurophysiology, materials science, neuromorphic hardware, bioengineering, and medicine. Our focus extends to the multifaceted analysis of multicellular computation within neural networks. We encourage submissions that leverage mathematical modeling to dissect these complex interactions, as well as those that contribute to the evolution of advanced brain-inspired computing systems. This includes research utilizing both analog and digital hardware, supported by innovative materials science, and the design of cultured neuronal networks with specified geometries and complexities. We welcome submissions from researchers dedicated to advancing computational models and devices that emulate multiple functional aspects of brain function, drawing inspiration from neurobiological principles. Additionally, this collection encompasses research aimed at understanding and manipulating neural circuits in both physiological and pathological states, offering insights into the neural basis of health and disease. In this interdisciplinary endeavor, we aspire to push the boundaries of our understanding of neural circuitry, paving the way for the next generation of computational models and technologies that mirror the brain's unparalleled capabilities.

Habits: plasticity, learning and freedom Javier Bernacer 2015-11-05

In present times, certain fields of science are becoming aware of the necessity to go beyond a restrictive specialization, and establish an open dialogue with other disciplines. Such is the case of the approach that neuroscience and philosophy are performing in the last decade. However, this increasing interest in a multidisciplinary perspective should not be understood, in our opinion, as a new phenomenon, but rather as a return to a classical standpoint: a proper understanding of human features –organic, cognitive, volitional, motor or behavioral, for example– requires a context that includes the global dimension of the human being. We believe that grand neuroscientific conclusions about the mind should take into account what philosophical reflection has said about it; likewise, philosophers should consider the organic constitution of the brain to draw inferences about the mind. Thus, both neuroscience and philosophy would benefit from each other's achievements through a fruitful dialogue. One of the main problems a multidisciplinary group encounters is terminology: the same term has a different scope in various fields, sometimes even contradictory. Such is the case of habits: from a neuroscientific perspective, a habit is a mere automation of an action. It is, therefore, linked to rigidity and limitation. However, from a classical philosophical account, a habit is an enabling capacity acquired through practice, which facilitates, improves and reinforces the performance of certain kind of actions. From neuroscience, habit acquisition restricts a subject's action to the learnt habit; from philosophy, habit acquisition allows the subject to set a distance from the simple motor performance to cognitively enrich the action. For example, playing piano is a technical habit; considering the neuroscientific account, a pianist would just play those sequences of keystrokes that had been repeatedly practiced in the past. However, according to the philosophical perspective, it would allow the pianist to improvise and, moreover, go beyond the movements of their hands to concentrate in other features of musical interpretation. In other words, a holistic view of habits focuses on the subject's disposition when facing both known and novel situations. We believe neuroscience could contribute to achieve a deeper understanding of the neural bases of habits, whose complexity could be deciphered by a philosophical

reflection. Thus, we propose this Research Topic to increase our understanding on habits from a wide point of view. This collection of new experimental research, empirical and theoretical reviews, general commentaries and opinion articles covers the following subjects: habit learning; implicit memory; computational and complex dynamical accounts of habit formation; practical, cognitive, perceptual and motor habits; early learning; intentionality; consciousness in habits performance; neurological and psychiatric disorders related to habits, such as obsessive-compulsive disorder, stereotypes or addiction; habits as enabling or limiting capacities for the agent

Supervised Machine Learning for Science Christoph Molnar

2024-10-31 Machine learning has revolutionized science, from folding proteins and predicting tornadoes to studying human nature. While science has always had an intimate relationship with prediction, machine learning amplified this focus. But can this hyper-focus on prediction be justified? Can a machine learning model be part of a scientific model? Or are we on the wrong track? In this book, we explore and justify supervised machine learning in science. However, a naive application of supervised learning won't get you far because machine learning in raw form is unsuitable for science. After all, it lacks interpretability, causality, uncertainty quantification, and many more desirable attributes. Yet, we already have all the puzzle pieces needed to improve machine learning, from incorporating domain knowledge to creating robust, interpretable, and causal models. The problem is that the solutions are scattered everywhere. In this book, we bring together the philosophical justification and the solutions that make supervised machine learning a powerful tool for science. The book consists of two parts: Part 1 justifies the use of machine learning in science. Part 2 discusses how to integrate machine learning into science.

Anatomy and Plasticity in Large-Scale Brain Models Markus Butz

2017-01-05 Supercomputing facilities are becoming increasingly available for simulating activity dynamics in large-scale neuronal networks. On today's most advanced supercomputers, networks with up to a billion of neurons can be readily simulated. However, building biologically realistic, full-scale brain models requires more than just a huge number of neurons. In addition to network size, the detailed local and global anatomy of neuronal connections is of crucial importance. Moreover, anatomical connectivity is not fixed, but can rewire throughout life (structural plasticity)—an aspect that is missing in most current network models, in which plasticity is confined to changes in synaptic strength (synaptic plasticity). The papers in this Ebook, which may broadly be divided into three themes, aim to bring together high-performance computing with recent experimental and computational research in neuroanatomy. In the first theme (fiber connectivity), new methods are described for measuring and data-basing microscopic and macroscopic connectivity. In the second theme (structural plasticity), novel models are introduced that incorporate morphological plasticity and rewiring of anatomical connections. In the third theme (large-scale simulations), simulations of large-scale neuronal networks are presented with an emphasis on anatomical detail and plasticity mechanisms. Together, the articles in this Ebook make the reader aware of the methods and models by which large-scale brain networks running on supercomputers can be extended to include anatomical detail and plasticity.

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