

Neuronal Networks of the Hippocampus

Roger D. Traub and Richard Miles

CAMBRIDGE

Neuronal Networks Of The Hippocampus

Masao Itō, Yasushi Miyashita



Neuronal Networks Of The Hippocampus:

Neuronal Networks of the Hippocampus Roger D. Traub, Richard Miles, 1991-05-31 The questions of how a large population of neurons in the brain functions how synchronized firing of neurons is achieved and what factors regulate how many and which neurons fire under different conditions form the central theme of this book Important neurological techniques for the physiological reconstruction of a large biological neural network are presented Neuronal Networks in Brain Function, CNS Disorders, and Therapeutics Carl Faingold, Hal Blumenfeld, 2013-12-26 Neuronal Networks in Brain Function CNS Disorders and Therapeutics edited by two leaders in the field offers a current and complete review of what we know about neural networks How the brain accomplishes many of its more complex tasks can only be understood via study of neuronal network control and network interactions Large networks can undergo major functional changes resulting in substantially different brain function and affecting everything from learning to the potential for epilepsy With chapters authored by experts in each topic this book advances the understanding of How the brain carries out important tasks via networks How these networks interact in normal brain function Major mechanisms that control network function The interaction of the normal networks to produce more complex behaviors How brain disorders can result from abnormal interactions How therapy of disorders can be advanced through this network approach This book will benefit neuroscience researchers and graduate students with an interest in networks as well as clinicians in neuroscience pharmacology and psychiatry dealing with neurobiological disorders Utilizes perspectives and tools from various neuroscience subdisciplines cellular systems physiologic making the volume broadly relevant Chapters explore normal network function and control mechanisms with an eye to improving therapies for brain disorders Reflects predominant disciplinary shift from an anatomical to a functional perspective of the brain Edited work with chapters authored by leaders in the field around the globe the broadest most expert coverage available **Neural Networks: From Biology To High Energy Physics -**

Proceedings Of The Third Workshop Daniel J Amit, B Denby, Paolo Del Giudice, Edmund T Rolls, Aldo Treves, 1995-10-18 The papers appearing in this proceedings volume cover a broad range of subjects owing to the highly cross disciplinary character of the workshop and include experiments and models concerning the dynamics of the neural activity in the cortex DMS experiments attractor dynamics in the cortex spontaneous activity hippocampus space and memory theoretical advances in neural network modeling information processing in neural networks applications of neural networks to experimental physics particularly to high energy physics digital and analog hardware implementations of neural networks etc

Gateway to Memory Mark A. Gluck, Catherine E. Myers, 2001 This book is for students and researchers who have a specific interest in learning and memory and want to understand how computational models can be integrated into experimental research on the hippocampus and learning It emphasizes the function of brain structures as they give rise to behavior rather than the molecular or neuronal details It also emphasizes the process of modeling rather than the

mathematical details of the models themselves The book is divided into two parts The first part provides a tutorial introduction to topics in neuroscience the psychology of learning and memory and the theory of neural network models The second part the core of the book reviews computational models of how the hippocampus cooperates with other brain structures including the entorhinal cortex basal forebrain cerebellum and primary sensory and motor cortices to support learning and memory in both animals and humans The book assumes no prior knowledge of computational modeling or mathematics For those who wish to delve more deeply into the formal details of the models there are optional mathboxes and appendices The book also includes extensive references and suggestions for further readings

The Self-Organizing Brain: From Growth Cones to Functional Networks Jaap Pelt, 1994-10-11 This book concentrates on the organizational level of neurons and neuronal networks under the unifying theme The Self Organizing Brain From Growth Cones to Functional Networks Such a theme is attractive because it incorporates all phases in the emergence of complexity and adaptive organization as well as involving processes that remain operative in the mature state The order of the sections follows successive levels of organization from neuronal growth cones neurite formation neuronal morphology and signal processing to network development network dynamics and finally to the formation of functional circuits

The CA3 Region of the Hippocampus: How is it? What is it for? How does it do it? Enrico Cherubini, Richard Miles, 2015-08-19 The CA3 hippocampal region receives information from the entorhinal cortex either directly from the perforant path or indirectly from the dentate gyrus via the mossy fibers MFs According to their specific targets principal mossy cells or interneurons MFs terminate with large boutons or small filopodial extensions respectively MF CA3 synapses are characterized by a low probability of release and pronounced frequency dependent facilitation In addition MF terminals are endowed with mGluRs that regulate their own release We will describe the intrinsic membrane properties of pyramidal cells which can sometimes fire in bursts together with the geometry of their dendritic arborization The single layer of pyramidal cells is quite distinct from the six layered neocortical arrangement The resulting aligned dendrites provides the substrate for laminated excitatory inputs They also underlie a precise diversity of inhibitory control which we will also describe in detail The CA3 region has an especially rich internal connectivity with recurrent excitatory and inhibitory loops In recent years both in vivo and in vitro studies have allowed to better understand functional properties of the CA3 auto associative network and its role in information processing This circuit is implicated in encoding spatial representations and episodic memories It generates physiological population synchronies including gamma theta and sharp waves that are presumed to associate firing in selected assemblies of cells in different behavioral conditions The CA3 region is susceptible to neurodegeneration during aging and after stresses such as infection or injury Loss of some CA3 neurones has striking effects on mossy fiber inputs and can facilitate the generation of pathologic synchrony within the CA3 micro circuit The aim of this special topic is to bring together experts on the cellular and molecular mechanisms regulating the wiring properties of the CA3 hippocampal microcircuit in both physiological and

pathological conditions synaptic plasticity behavior and cognition We will particularly emphasize the dual glutamatergic and GABAergic phenotype of MF CA3 synapses at early developmental stages and the steps that regulate the integration of newly generated neurons into the adult dentate gyrus CA3 circuit Neural Modeling and Neural Networks Francesco

Ventriglia,1994 Research in neural modeling and neural networks has escalated dramatically in the last decade acquiring along the way terms and concepts such as learning memory perception recognition which are the basis of neuropsychology Nevertheless for many neural modeling remains controversial in its purported ability to describe brain activity The difficulties in modeling are various but arise principally in identifying those elements that are fundamental for the expression and description of superior neural activity This is complicated by our incomplete knowledge of neural structures and functions at the cellular and population levels The first step towards enhanced appreciation of the value of neural modeling and neural networks is to be aware of what has been achieved in this multidisciplinary field of research This book sets out to create such awareness Leading experts develop in twelve chapters the key topics of neural structures and functions dynamics of single neurons oscillations in groups of neurons randomness and chaos in neural activity statistical dynamics of neural networks learning memory and pattern recognition **Artificial Neural Networks - ICANN 2007** Joaquim

Marques de Sá,Luis A. Alexandre,Wlodzislaw Duch,Danilo Mandic,2007-09-14 This book is the second of a two volume set that constitutes the refereed proceedings of the 17th International Conference on Artificial Neural Networks ICANN 2007 It features contributions related to computational neuroscience neurocognitive studies applications in biomedicine and bioinformatics pattern recognition self organization text mining and internet applications signal and times series processing vision and image processing robotics control and more **Statistical Mechanics of Neural Networks** Luis

Garrido,1990-12-12 Combined for researchers and graduate students the articles from the Sitges Summer School together form an excellent survey of the applications of neural network theory to statistical mechanics and computer science biophysics Various mathematical models are presented together with their interpretation especially those to do with collective behaviour learning and storage capacity and dynamical stability *World Congress on Neural Networks* ,1993

Never-resting microglia: physiological roles in the healthy brain and pathological implications Amanda Sierra,Marie-Eve Tremblay,Hiroaki Wake,2015-02-11 Microglia are largely known as the major orchestrators of the brain inflammatory response As such they have been traditionally studied in various contexts of disease where their activation has been assumed to induce a wide range of detrimental effects In the last few years a series of discoveries have challenged the current view of microglia showing their active and positive contribution to normal brain function This Research Topic reviewed the novel physiological roles of microglia in the developing mature and aging brain under non pathological conditions In particular this Research Topic discussed the cellular and molecular mechanisms by which microglia contribute to the formation pruning and plasticity of synapses the regulation of adult neurogenesis as well as hippocampal learning and memory among other

important roles Because these novel findings defy our understanding of microglial function in health as much as in disease this Research Topic also summarized the current view of microglial nomenclature phenotypes origin and differentiation and contribution to various brain pathologies Additionally novel imaging approaches and molecular tools to study microglia in their non activated state have been discussed In conclusion this Research Topic seeked to emphasize how the current research in neuroscience is challenged by never resting microglia

Cognitive Changes of the Aging Brain Kenneth M. Heilman, Stephen E Nadeau ([VNV]), 2019-12-05 Examines the alterations of cognition perception and behavior that occur with healthy brain aging their mechanisms and their management

IJCNN, International Joint Conference on Neural Networks, 1989 **1995 IEEE International Conference on Neural Networks**, 1995 **Artificial Neural Networks**, 2 Igor Aleksander, John Taylor, 1992 *Neural Circuits and Networks* Vincent Torre, John Nicholls, 2012-12-06 The understanding of parallel processing and of the mechanisms underlying neural networks in the brain is certainly one of the most challenging problems of contemporary science During the last decades significant progress has been made by the combination of different techniques which have elucidated properties at a cellular and molecular level However in order to make significant progress in this field it is necessary to gather more direct experimental data on the parallel processing occurring in the nervous system Indeed the nervous system overcomes the limitations of its elementary components by employing a massive degree of parallelism through the extremely rich set of synaptic interconnections between neurons This book gathers a selection of the contributions presented during the NATO ASI School Neuronal Circuits and Networks held at the Ettore Majorana Center in Erice Sicily from June 15 to 27 1997 The purpose of the School was to present an overview of recent results on single cell properties the dynamics of neuronal networks and modelling of the nervous system The School and the present book propose an interdisciplinary approach of experimental and theoretical aspects of brain functions combining different techniques and methodologies

Applications and Science of Neural Networks, Fuzzy Systems, and Evolutionary Computation, 1999 *The 1994 IEEE International Conference on Neural Networks*, 1994 **Theoretical Mechanics of Biological Neural Networks** Ronald J. MacGregor, 1993-05-21 Theoretical Mechanics of Biological Neural Networks presents an extensive and coherent discussion and formulation of the generation and integration of neuroelectric signals in single neurons The approach relates computer simulation programs for neurons of arbitrary complexity to fundamental gating processes of transmembrane ionic fluxes of synapses of excitable membranes Listings of representative computer programs simulating arbitrary neurons and local and composite neural networks are included Develops a theory of dynamic similarity for characterising the firing rate sensitivities of neurons in terms of their characteristic anatomical and physiological parameters Presents the sequential configuration theory a theoretical presentation of coordinated firing patterns in entire neural population Presents the outlines of mechanics for multiple interacting networks in composite systems

Integrative and Molecular Approach to Brain Function Masao Itō, Yasushi Miyashita, 1996 Hardbound The

present advancement in the brain is characterized by the dichotomy of the molecular approaches to cellular functions in the brain and integrative approaches to the mechanisms of brain functions This book contains the proceedings of the Uehara Foundation Symposium held in 1996 in Tokyo which aimed to synthesize the two lines of approaches The major research strategy employed at the molecular and cellular levels is to pinpoint a molecule a set of them a microstructure which is responsible for a cellular function That undertaken at integrative and functional levels is to comprehend the mechanisms which underlie a system function of the brain These two strategies will be mutually beneficial and the need to combine them in brain science will become increasingly important This monograph thus helps envision the future of brain science and is of great interest to researchers graduate and undergraduate students who want to know the cur

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