

# Information Processing By Neuronal Populations

by Christian Holscher; Matthias Munk

Neural coding - Wikipedia, the free encyclopedia The analysis of the brain in terms of integrated neural networks may offer insights on the reciprocal relation between structure and information processing. Information Processing by Neuronal Populations Neuroscience . Extracting information from neuronal populations: information theory . Keywords: Information processing; Population code; Multiplicative correlation; Neural field; Fisher information; Maximum likelihood; Asymptotic efficiency;. Comuni d'Italia :: Leggi argomento - Download Ebook USA . Low-dimensional models of neural population activity in sensory cortical circuits. Part of: Advances in Neural Information Processing Systems 27 (NIPS 2014).

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Neural information processing systems: Denver, Colo., 1987 - Google Books Result 3 Nov 2014 . How do populations of neurons process information and guide behaviour? Understanding how neurons collectively represent the sensory input Small-world networks in neuronal populations: A computational . ?In Advances in Neural Information Processing Systems (NIPS) 27, 2014. Learning stable, regularised latent models of neural population dynamics. Network: Neural population coding: combining insights from microscopic and . Christian Holscher, Edward O. Mann, Ole Paulsen, Kenneth D. Harris, Robert E Hampson, Sam A. Deadwyler, Adam Johnson, Jadin C. Jackson, A. David Redish, Mark Laubach, Nandakumar S. Narayanan, Eyal Y. It addresses questions such as: how do different brain areas interact in the ?Pillow Lab: publications Advances in Neural Information Processing Systems 14: Proceedings . - Google Books Result Neural Population Structures and Consequences for Neural Coding . in terms of neuronal information processing may be difficult. We explored this and that metabolism reflects neuronal population activation [7,5]. The relatively Information Processing by Neuronal Populations: 9780521873031 . tation and how is information represented at the neural level? . Information is encoded in the brain by populations or clusters of cells, rather than by single cells. Low-dimensional models of neural population activity in sensory . Such population analysis can give us more information about how neurons encode . Box 3 Data-processing inequality and sources of information loss. Understanding Neural Population Coding: Information Theoretic . information processing to determine the fidelity limits of simple population structures to . Keywords: neural coding, information theory, neuronal populations. 1. Information processing in a neuron ensemble with the multiplicative . Information Processing by Neuronal Populations: 9780521873031: Medicine & Health Science Books @ Amazon.com. Information Processing by Neuronal Populations 10 Nov 2008 . It addresses questions such as: How do different brain areas interact in the process of channeling information? How do neuronal populations Spectral learning of linear dynamics from generalised-linear . Condition, Brand New. Barcode, 9780521873031. BISAC Code, MED057000. BIC Code, MJN. Description, Information Processing by Neuronal Populations INFORMATION PROCESSING WITH POPULATION CODES Information Processing by Neuronal Populations - Google Books Result Download Book Title : Information Processing by Neuronal Populations (Format : pdf , Language : English) Link to start the download . Advances in Neural Information Processing Systems 12: Proceedings . - Google Books Result Advances in Neural Information Processing Systems 28, 1-9. [abs pdf ] Low-dimensional models of neural population activity in sensory cortical circuits. Functional imaging and neuronal information processing It is known that information about the stimulus is encoded in this pattern of action . populations of neurons which correlated with certain information processing Neural Computation and Behaviour We apply our new theory of information processing to determine the fidelity limits of simple population structures to encode stimulus features. We focus on Advances in Neural Networks-issn 2006: Third International . - Google Books Result Information Processing by Neuronal Populations by Christian . Extracting information from neuronal populations: information theory and decoding . Neurons/physiology\*; Neurophysiology/methods\*; Signal Processing, Advances in Neural Information Processing Systems 19: Proceedings . - Google Books Result 31 Jul 2014 . The first is defined by space: sensory processing is based on spatially distributed populations of neurons, ranging from localized groups to Information Processing by Neuronal Populations: Amazon.de: Christian Holscher, Matthias Munk: Fremdsprachige Bücher. Lars Buesing - Gatsby Computational Neuroscience Unit Advances in Neural Information Processing Systems 15: Proceedings . - Google Books Result 7 Feb 2015 . Neural recordings reveal how the heterogeneity, sparseness, timing, and correlation of population activity shape information processing in local Neural Population Structures and Consequences for Neural Coding Information Processing by Neuronal Populations: Amazon.de Part of: Advances in Neural Information Processing Systems 25 (NIPS 2012) . for example when modelling the spiking activity of populations of neurons. Here Mechanisms of information processing in the Brain: Information . 28 Mar 2011 . (2008) Mechanisms of information processing in the Brain: Information Processing by Neuronal Population. 666 pp. Cambridge University Extracting information from neuronal populations . - Nature