
Analysis Parallel Spike Trains Springer Series

analysis of parallel - uni-freiburg - guideline for data analysis. 10.2 basic elements of the ue approach the ue analysis method (grün et al. 2002a) is designed to detect coincident spike patterns between two or more simultaneously recorded spike trains and to assess the significance of the observation. the specific questions addressed by this analysis **why data analysis of parallel spike trains is needed** - why data analysis of parallel spike trains is needed the brain is composed of billions of neurons, the elementary units of neuronal information processing. the neocortex, which is critical to most higher brain functions, is a highly complex network of neurons each of which receives signals from thou- **analysis of parallel spike trains - dlpdfs** - analysis of parallel spike trains download here part 1: basic spike train statistics: point process models. ch 1.- stochastic models of spike trains-carl van vreeswijk. ch 2.- estimating the firing rate- shigeru shinomoto. ch 3.- processing of phase-locked spikes and periodic signals- go ashida, hermann wagner and catherine e. carr. ch 4 ... **gravity analysis of parallel spike trains - springer** - gravity analysis of parallel spike trains george l. gerstein* department of neuroscience, university of pennsylvania, philadelphia, pa, usa definition the gravity representation is a mapping of the spiking activity of n neurons into a mechanical model. the method originated with an effort to measure plant similarity (wright 1977). in the **analysis of parallel spike trains author sonia gruen ...** - analysis of parallel spike trains author sonia gruen published on november 2010 analysis of parallel spike trains author sonia gruen published on november 2010 are becoming more and more widespread as the most viable form of literary media today. it is becoming obvious that developers of **chapter 3 analysis and interpretation of interval and ...** - 3 analysis and interpretation of interval and count variability in neural spike trains 39 fig. 3.1 bias of cv estimator for a finite observation window. (a) independent empiric observations (trials) of a gamma renewal process within the finite observation window (0,2]in operational time results in an empiric sample of inter-spike intervals x (orange). ... **poster presentation open access parallel spike trains ...** - parallel spike trains analysis using positive definite kernels taro tezuka from the twenty third annual computational neuroscience meeting: cns*2014 québec city, canada. 26-31 july 2014 since spikes are considered to be the fundamental element in neural systems, there has been a significant amount of **challenges in analysis of massively parallel spike data** - challenges in analysis of massively parallel spike data sonja grün institute of neuroscience and medicine (inm-6) & ... massively parallel spike trains collaboration with a. riehle and t. brochier, int, cnrs-amu, marseille ... analysis of massively parallel data **detecting multineuronal temporal patterns in parallel ...** - detecting multineuronal temporal patterns in parallel spike trains kai s. gansel1* and wolf singer1,2,3 1 department of neurophysiology, max-planck-institute for brain research, frankfurt am main ... **chapter 7 spike metrics - cornell university** - chapter 7 spike metrics ... such as how neural activity represents the sensory world, can be framed in terms of the extent to which spike trains differ from one another. since spike trains can be considered to be sequences of ... an invited chapter for "analysis of parallel spike trains" (s. rotter and s. grün, eds.) **pyspike - a python library for analyzing spike train synchrony** - recorded neural firing patterns (spike trains) plays a crucial role in addressing this problem. here, the pyspike library is introduced, a python package for spike train analysis providing parameter-free and time-scale independent measures of spike train synchrony. **chapter 17 generation and selection of surrogate methods ...** - this is particularly true for the correlation analysis of parallel spike trains. neglecting statistical features of experimental data can easily lead to the occurrence of false positive results, which of course needs to be avoided. **parallel mining of neuronal spike streams on graphics ...** - parallel mining of neuronal spike streams on graphics processing units 5 one would like to infer that neuron a's firings cause a neuron b to fire, then spikes from neuron b cannot occur immediately or spontaneously after a's spikes due to ax-onal conduction delays. these spikes cannot also occur too much later than a for the same reason. **a hidden markov model for decoding and the analysis of ...** - a hidden markov model for decoding and the analysis of replay in spike trains marc box 1, matt w. jonesy2, and nick whiteleyz3 1bristol centre for complexity sciences, university of bristol 2school of physiology and pharmacology, university of bristol 3school of mathematics, university of bristol december 22, 2014 abstract we present a hidden markov model that describes variation in an animal ... **evaluation of spike train analysis using visualization** - evaluation of spike train analysis using visualization ... with the analysis of relatively large numbers of spike trains, based ... using parallel coordinates [inselberg and dimsdale 1990]. ...

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