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# Olfaction Model System Computational Neuroscience

***insect olfaction: a model system for neural circuit modeling*** - insect olfaction: a model system for neural circuit modeling definition insect olfactory system denotes the network of cells - including the sensory neurons located on the antennae and the interneurons located in several areas of the brain such as the antennal lobe, the mushroom body, and the lateral horn - ***olfaction and the chemical senses - alexbacker*** - olfaction as a model system for information processing and pattern recognition olfaction and the chemical senses, 9 in olfaction and a proposed model for a larger role than has previously been suggested for activity-dependence in the establishment of the connectivity patterns between receptor neurons and glomeruli. ***computational model of the camp-mediated sensory response ...*** - computational model of the camp-mediated sensory response and calcium-dependent adaptation in vertebrate olfactory receptor neurons daniel p. dougherty\*, geraldine a. wright\*†, and alice c. yew†§ \*mathematical biosciences institute and †department of entomology, ohio state university, columbus, oh 43210; and ‡department of mathematics and ... ***computational analysis of olfaction and artificial nose ...*** - computational analysis of olfaction and artificial nose technologies by julia tsitron a dissertation submitted to the graduate school—new brunswick rutgers, the state university of new jersey in partial fulfillment of the requirements for the degree of doctor of philosophy graduate program in computational biology and molecular biophysics ***olfactory computation and object perception - pnas*** - olfaction must obtain a description of the spatial location and ... visual system must transform detailed retinal images into a ... in the visual system, analysis of the computational problem provided by the data and the task led to an understanding of what the "early" visual system must compute (1). ***sensor-based machine olfaction with a neurodynamics model ...*** - sensor-based machine olfaction with a neurodynamics model of the olfactory bulb b. raman, a. gutierrez-galvez, a. perera-lluna and r. gutierrez-osuna\* ... our research focuses on computational models of ... spiking neuron model of the peripheral olfactory system to process signals from fiber-optic sensor array. pearce et al. ***competing spatiotemporal neural codes in the olfaction of ...*** - neurons connected both globally and locally, rendering it a complex computational system that is incapable of revealing the underlying processes involved in olfaction [2]. however, experiments clearly indicate that key neural codes (pcs) involving global spatiotemporal behavior encode the critical dynamics of the olfaction system [1]. ***computational neuroscience: mathematical and statistical ...*** - thus, computational neuroscience has come to encompass not only a program of modeling neural activity and brain function at all levels of detail and abstraction, from sub-cellular biophysics to human behavior, but also advanced methods for analysis of neural data. in this article we focus on a fundamental component of computational neuroscience, ***embodiment of machine olfaction: the braitenberg nose*** - interact with it through machine olfaction in a tangible form. following a "research through design" approach [15], the project was set to explore the implementation and embodiment of olfactory sensors. through the computational composites framework [12], the form-giving of the artifact is explained. related work ***a biologically-plausible computational architecture for ...*** - this article presents a computational architecture for sensor-based machine olfaction based on biologically plausible models of the early stages in the olfactory pathway. we derive a concentration-response model that maps conventional sensor-array patterns into activation patterns for a population of olfactory receptor neurons (orns). ***computation in the olfactory system - citeseerx*** - computation in the olfactory system thomas a. cleland and christiane linster ... this review will attempt to provide a comprehensive, functional overview of computational ideas in olfaction and outline a com- ... in this model, granule cells served ***computational analysis of airflow and particle deposition ...*** - saghaian se (2018) computational analysis of airflow and particle deposition fraction in the upper part of the human respiratory system *biol eng med*, 2018 doi: 10.15761/bem.1000155 volume 3(6): 2-9 radiologist separately and both confirmed the respiratory system of the person to be healthy. ***should olfactory dysfunction be used as a biomarker of ...*** - olfaction: a model system for computational neuroscience. davis jl, eichenbaum hb (eds). the mit press, ma, usa 167-210 (1991). 8 meshulam ri, moberg pj, mahr rn, doty rl. olfaction in neurodegenerative disease: a meta-analysis of olfactory functioning in alzheimer's and parkinson's diseases. ***attention and olfactory consciousness*** - in the olfactory system before using the newly introduced system to provide evidence that attention is necessary for consciousness. keywords: olfaction, attention, consciousness, odor, orbitofrontal cortex, piriform cortex introduction knowledge about the relation between attention and conscious-

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