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# Neuromorphic Olfaction

**an investigation into spike-based neuromorphic approaches ...** - olfaction has established the capability of these sensors to tackle problems that plague the current e-nose implementations such as drift, response time, portability, power consumption and size. this article brings together the key contributions in neuromorphic olfaction and identifies future **neuromorphic sensors, olfaction - link.springer** - neuromorphic olfaction is an emergent field of research which aims at unraveling computational principles of biological olfactory systems and translating them into algorithms and devices. the resulting technology has high potential for a wide range of practical applications (detection of **implementation of olfactory bulb glomerular-layer ...** - implementation of olfactory bulb glomerular-layer computations in a digital neurosynaptic core nabil imam1,2\*,thomasa. ... our system is based on a digital neuromorphic chip consisting ... neuromorphic,biomimetic,olfaction,artificialchemicalsensing,neurosynapticcore,small-world,digital **neuromorphic systems: past, present and future** - neuromorphic systems: past, present and future 3 systems, and as a result, they were useful for research purposes, attempting to im-prove understanding of the original system by re-creating it in hardware, but not for more general applications. 3 modern neuromorphic systems in 1989, carver mead published his second seminal book (his first was ... **silicon-based neuromorphic implementation of the olfactory ...** - as well as the fundamental units of the neuromorphic model (spike-driven synapse and spiking soma), are all functional. work will continue towards completing a fully-integrated and scalable silicon implementation of the olfactory system. index terms - neuromorphic avlsi, chemosensor array, ma-chine olfaction, olfactory bulb. **pattern recognition for chemical sensor arrays with ...** - pattern recognition for chemical sensor arrays with neuromorphic models of the olfactory system ricardo gutierrez-osuna and barani raman 5 motivation for this work ga neuromorphic systems perspective nbiology serves as a source of inspiration to solve engineering problems g "as engineers, we would be foolish to ignore the lessons of a **analog an adaptive neuromorphic chip olfactory systems** - implementation of an adaptive neuromorphic olfaction chip. immediately reset to the after hyperpolarization value vahp the neuromorphic analog circuits implemented on chip make and a spike is produced as output of the neuron. use of temporal spiking signals to act as carriers of odour when a spike reaches a synapse, it induces a dendritic ... **field programmable arrays for neuromorphic computation** - chip #2: neuromorphic circuits - 3 receptor neurons, 27 synapses and 1 principal neuron; learning off-chip chip #3: adaptive neuromorphic olfaction chip - on-chip chemosensor array, on-chip sensor interface and neuromorphic olfactory circuits with on-chip stdp learning. **ee 5911 - neuromorphic analog vlsi** - a neuromorphic vlsi model of bat interaural level difference processing for azimuthal echolocation • correlation learning rule in floating-gate pfet synapses • analog vlsi circuit implementation of an adaptive neuromorphic olfaction chip . copies of these papers will be distributed in class on 4/22 and 4/24. there will only be a few (3- **sensor-based machine olfaction with a neurodynamics model ...** - in neuromorphic systems research [1], which argues in favor of the use of robots as physical models to test hypotheses of animal behavior, we believe that chemosensor arrays provide an opportunity to test plausible models of olfactory processing and, by extension, of olfaction-driven animal behaviors. **stereo-olfaction with a sniffing neuromorphic robot using ...** - stereo-olfaction with a sniffing neuromorphic robot using spiking neurons olivier rochel1, dominique martinez1, etienne hugues1 and frédéric sarry2 1loria, université de nancy 1, 54506 vandoeuve-les-nancy, france, 2laboratoire de physique des milieux ionisés et applications, université de nancy 1, bp 239, 54506 vandoeuve-les-nancy, france summary ... **analog vlsi design of an adaptive neuromorphic chip for ...** - analog vlsi design of an adaptive neuromorphic chip for olfactory systems thomas j. koickal and alister hamilton inst. for integrated micro and nano systems

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