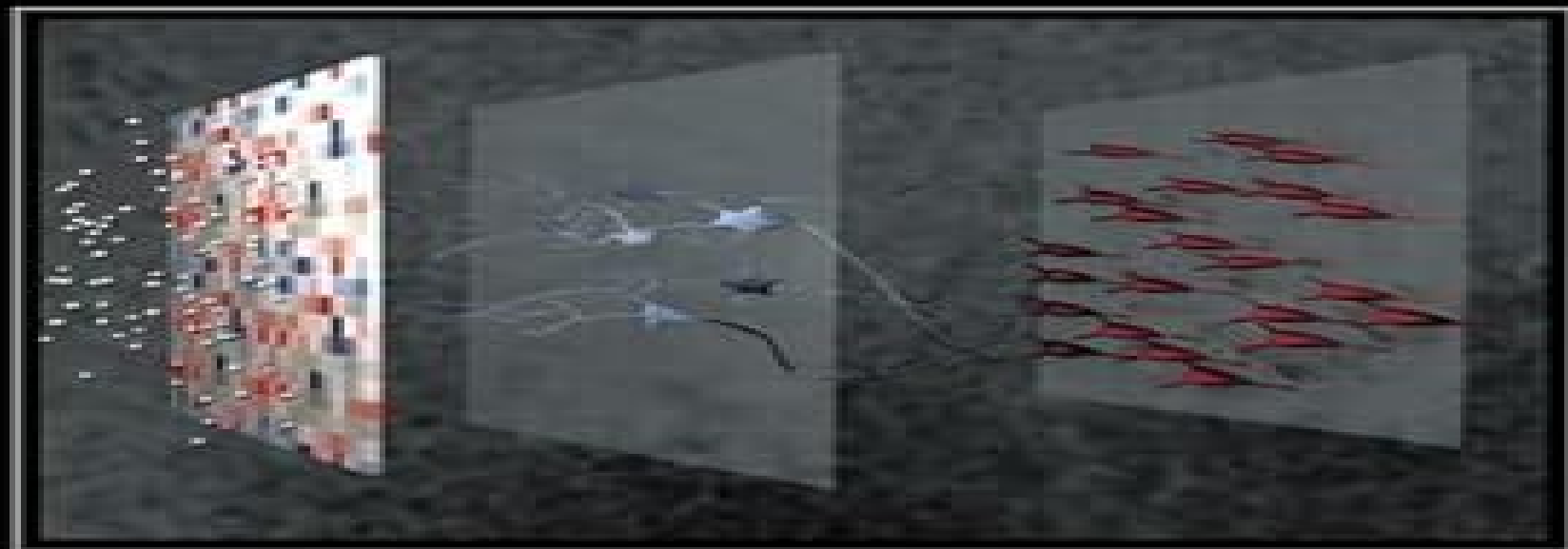


# NEUROMORPHIC OLFACTION



*Edited by*  
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# Neuromorphic Olfaction Frontiers In Neuroengineering Series

**Anna Menini**



## **Neuromorphic Olfaction Frontiers In Neuroengineering Series:**

**Essentials of Machine Olfaction and Taste** Takamichi Nakamoto, 2016-04-18 Essentials of Machine Olfaction and Taste This book provides a valuable information source for olfaction and taste which includes a comprehensive and timely overview of the current state of knowledge of use for olfaction and taste machines Presents original latest research in the field with an emphasis on the recent development of human interfacing Covers the full range of artificial chemical senses including olfaction and taste from basic through to advanced level Timely project in that mobile robots olfactory displays and odour recorders are currently under research driven by commercial demand

**On the Scent** Paolo Pelosi, 2016-03-24 In humans the perception of odours adds a fourth dimension to life from the scent of flowers the aroma of foods and all the subtle smells in the environment But how many types of odours can we distinguish Why do we like the food we like Which are the most powerful odorants and how well does the human sense of smell perform compared with that of a dog or a butterfly The sense of smell is highly complex and such complexity discouraged scientists for a long time leaving the world of smell in an atmosphere of mystery Only recently thanks to the new tools furnished by molecular biology and neuroscience are we beginning to answer these questions uncovering the hidden secrets of our sense of smell and decoding the language used by most animals to communicate In this book Paolo Pelosi one of the leading figures in the development of the science of olfaction recounts how the chemical alphabet behind smell has been pieced together over the past three decades Drawing on anecdotes from his own scientific career and celebrating the rich variety of smells from herbs to flowers to roast coffee and freshly baked bread he weaves together an engaging and remarkable account of the science behind the most elusive of our senses

**Humanoid Robotics and Neuroscience** Gordon Cheng, 2014-12-19 Humanoid robots are highly sophisticated machines equipped with human like sensory and motor capabilities Today we are on the verge of a new era of rapid transformations in both science and engineering one that brings together technological advancements in a way that will accelerate both neuroscience and robotics Humanoid Robotics and Neuroscienc

Neuromorphic Olfaction Krishna C. Persaud, Santiago Marco, Agustin Gutierrez-Galvez, 2013-04-23 Many advances have been made in the last decade in the understanding of the computational principles underlying olfactory system functioning Neuromorphic Olfaction is a collaboration among European researchers who through NEUROCHEM Fp7 Grant Agreement Number 216916 a challenging and innovative European funded project introduce novel computing paradigms and biomimetic artifacts for chemical sensing The implications of these findings are relevant to a wide audience including researchers in artificial olfaction neuroscientists physiologists and scientists working with chemical sensors Developing neuromorphic olfaction from conceptual points of view to practical applications this cross disciplinary book examines The biological components of vertebrate and invertebrate chemical sensing systems The early coding pathways in the biological olfactory system showing how nonspecific receptor populations may have significant advantages in encoding odor intensity as well as odor identity The redundancy and the

massive convergence of the olfactory receptor neurons to the olfactory bulb A neuromorphic approach to artificial olfaction in robots Reactive and cognitive search strategies for olfactory robots The implementation of a computational model of the mammalian olfactory system The book's primary focus is on translating aspects of olfaction into computationally practical algorithms These algorithms can help us understand the underlying behavior of the chemical senses in biological systems They can also be translated into practical applications such as robotic navigation and systems for uniquely detecting chemical species in a complex background

*Brain Neurotrauma* Firas H. Kobeissy, 2015-02-25 With the contribution from more than one hundred CNS neurotrauma experts this book provides a comprehensive and up to date account on the latest developments in the area of neurotrauma including biomarker studies experimental models diagnostic methods and neurotherapeutic intervention strategies in brain injury research It discusses neurotrauma mechanisms biomarker discovery and neurocognitive and neurobehavioral deficits Also included are medical interventions and recent neurotherapeutics used in the area of brain injury that have been translated to the area of rehabilitation research In addition a section is devoted to models of milder CNS injury including sports injuries

**Neuromorphic Olfaction** Marco S Persaud KC (Gutiérrez-Gálvez A, editors), **The Neurobiology of Olfaction** Anna Menini, 2009-11-24 Comprehensive Overview of Advances in Olfaction The common belief is that human smell perception is much reduced compared with other mammals so that whatever abilities are uncovered and investigated in animal research would have little significance for humans However new evidence from a variety of sources indicates this traditional view is likely overly simplistic The Neurobiology of Olfaction provides a thorough analysis of the state of the science in olfactory knowledge and research reflecting the growing interest in the field Authors from some of the most respected laboratories in the world explore various aspects of olfaction including genetics behavior olfactory systems odorant receptors odor coding and cortical activity Until recently almost all animal research in olfaction was carried out on orthonasal olfaction inhalation It is only in recent years especially in human flavor research that evidence has begun to be obtained regarding the importance of retronasal olfaction exhalation These studies are beginning to demonstrate that retronasal smell plays a large role to play in human behavior Highlighting common principles among various species including humans insects *Xenopus laevis* African frog and *Caenorhabditis elegans* nematodes this highly interdisciplinary book contains chapters about the most recent discoveries in odor coding from the olfactory epithelium to cortical centers It also covers neurogenesis in the olfactory epithelium and olfactory bulb Each subject specific chapter is written by a top researcher in the field and provides an extensive list of reviews and original articles for students and scientists interested in further readings

**Neuromorphic Engineering Editors' Pick 2021** André van Schaik, Bernabe Linares-Barranco, 2021-08-10 Specification der Herren Officirer und Gemeinen/ so Königl. Schwedischer Seits im Treffen bey Gadebusch den 20. Dec. 1712. geblieben und blessiret worden , 1713

## Unveiling the Magic of Words: A Report on "**Neuromorphic Olfaction Frontiers In Neuroengineering Series**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Neuromorphic Olfaction Frontiers In Neuroengineering Series**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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