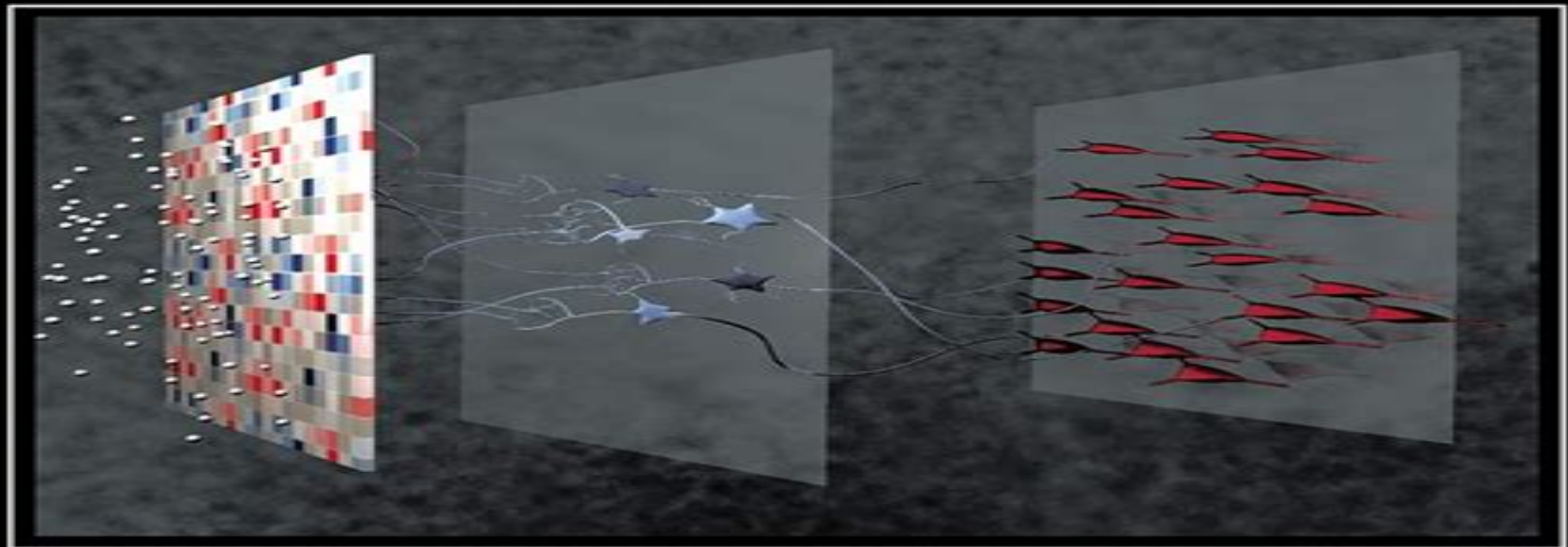


NEUROMORPHIC OLFACTION



Edited by
Krishna C. Persaud
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Neuromorphic Olfaction Frontiers In Neuroengineering Series

Chao Zhang



Neuromorphic Olfaction Frontiers In Neuroengineering Series:

Neuromorphic Olfaction Krishna C. Persaud, Santiago Marco, Agustin Gutierrez-Galvez, 2016-04-19 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 **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 Обоняние. Увлекательное погружение в науку о запахах Паоло

Пелоси, 2021-01-18 150 *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

Methods in Brain Connectivity Inference through Multivariate Time Series Analysis Koichi Sameshima,Luiz Antonio Baccala,2016-04-19 Interest in brain connectivity inference has become ubiquitous and is now increasingly adopted in experimental investigations of clinical behavioral and experimental neurosciences Methods in Brain Connectivity Inference through Multivariate Time Series Analysis gathers the contributions of leading international authors who discuss different time series analysis approaches providing a thorough survey of information on how brain areas effectively interact Incorporating multidisciplinary work in applied mathematics statistics and animal and human experiments at the forefront of the field the book addresses the use of time series data in brain connectivity interference studies Contributors present codes and data examples to back up their methodological descriptions exploring the details of each proposed method as well as an appreciation of their merits and limitations Supplemental material for the book including code data practical examples and color figures is supplied in the form of downloadable resources with directories organized by chapter and instruction files that provide additional detail The field of brain connectivity inference is growing at a fast pace with new data signal processing proposals emerging so often as to make it difficult to be fully up to date This consolidated panorama of data driven methods includes theoretical bases allied to computational tools offering readers immediate hands on experience in this dynamic arena

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

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

Perception, Cognition and Aesthetics Dena Shottenkirk,Manuel Curado,Steven S. Gouveia,2019-04-29 This volume addresses key questions related to how content in thought is derived from perceptual experience It includes chapters that focus on single issues on perception and cognition as well as others that relate these issues to an important social construct that involves both perceptual experience and cognitive activities aesthetics While the volume includes many diverse views several prominent themes unite the individual essays a challenge to

the notion of the discreet and non temporal unit of perception a challenge to the traditional divide between perception and cognition and a challenge to the traditional divide between unconscious and conscious intentionality Additionally the chapters discuss the content of perceptual experience the value of traditional notions of content disjunctivism adverbialism and phenomenal experience The final section of essays dealing with perception and cognition in aesthetics features work in experimental aesthetics and unique perspectives from artists and gallerists working outside of philosophy Perception Cognition and Aesthetics is a timely volume that offers a range of unique perspectives on debates in philosophy of mind surrounding perception and cognition It will also appeal to scholars working in aesthetics and art theory who are interested in the ways these debates influence our understanding of art **Flavor** Elisabeth Guichard, Christian Salles, 2022-08-18

Flavor From Food to Behaviors Wellbeing and Health Second Edition presents the different mechanisms of flavor perception Broken into four parts the first begins with coverage of flavor release in humans Part two addresses flavor perception from molecules to receptors and brain integration Part three analyzes flavor perception preferences and food intake Finally part four considers flavor perception and physiological status Academics working in the areas of sensory science food quality nutrition and human sciences as well as research and development professionals and nutritionists will benefit from this important revised reference Addresses the link between flavor perception and human behaviors specifically human physiology in relation to perception Presents opportunities for the reformulation of healthy foods while maintaining the acceptability by consumers Explains how flavor compounds may modulate food intake and behavior Assesses the influence of age physiological disorders or social environments on the impact of food flavor Bioinspired solutions to the challenges of chemical sensing Ramon Huerta, Thomas Nowotny, Chemical sensing is likely the most primordial sensory modality that emerged in the evolution of life Without chemical sensing life on earth would probably not exist It is used for detecting nutrients avoiding threats finding mating partners and various forms of communication and social interaction between animals The advent of artificial sensors has created a myriad of problems in the areas of chemical detection and identification with applications in food quality and pollution control chemical threat detection health monitoring robot control and even odor and taste synthesis Efficient algorithms are needed to address the many challenges of chemical sensing in these areas including but not limited to sensitivity levels sensor drift concentration invariance of analyte identity and complex mixtures Defining and improving analysis methods for artificial chemical sensing remains an active research area in engineering and machine learning alike In the course of evolution animals bacteria and plants have developed sophisticated methods and algorithms for solving difficult problems in chemical sensing very efficiently Complex signalling pathways inside single cells can trigger movement toward the source of a nutrient Complex networks of neurons appear to be able to compute odor types and the distance to a source in turbulent flows These networks of neurons use a combination of temporal coding layered structures simple Hebbian learning rules reinforcement learning and inhibition to quickly learn about chemical stimuli that

are critical for their survival Olfaction is a vibrant field of research because recent technological advances allow monitoring and manipulating brain areas inaccessible in the past thus allowing for rapid progress This is particularly relevant because to this date the best solutions to many general chemical sensing problems are still found in animals rather than artificial devices Many lessons may yet have to be learned from biological systems to solve the complex problems of chemical sensing with similar success as animals routinely do This special issue has the ambitious goal of bringing together biologists and engineers to report on biological solutions and engineering approaches to chemical sensing challenges in order to better understand in what aspects both fields can find common ground of discussion and to thus promote novel areas of interdisciplinary research

Experimental Neurotoxicology Methods Jordi Llorens, Marta Barenys, 2021-07-23 This volume explores the latest methods that seek to address the vital questions being asked in neurotoxicology research The chapters in this book cover a variety of available methods from the molecular level to the organism level and both in vitro and in vivo approaches including alternative model organisms In the Neuromethods series style chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory Cutting edge and authoritative

Experimental Neurotoxicology Methods is a valuable resource for both young and experienced researchers who are looking for guidance to implement these methods in their laboratories or for understanding the data generated through these techniques

Neuromorphic Olfaction Krishna C. Persaud, Santiago Marco, Agustin Gutierrez-Galvez, 2016-04-19 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

Synaptic Plasticity for Neuromorphic Systems Christian Mayr, Sadique Sheik, Chiara Bartolozzi, Elisabetta Chicca, 2016-06-26 One of the most

striking properties of biological systems is their ability to learn and adapt to ever changing environmental conditions tasks and stimuli It emerges from a number of different forms of plasticity that change the properties of the computing substrate mainly acting on the modification of the strength of synaptic connections that gate the flow of information across neurons Plasticity is an essential ingredient for building artificial autonomous cognitive agents that can learn to reliably and meaningfully interact with the real world For this reason the neuromorphic community at large has put substantial effort in the design of different forms of plasticity and in putting them to practical use These plasticity forms comprise among others Short Term Depression and Facilitation Homeostasis Spike Frequency Adaptation and diverse forms of Hebbian learning e g Spike Timing Dependent Plasticity This special research topic collects the most advanced developments in the design of the diverse forms of plasticity from the single circuit to the system level as well as their exploitation in the implementation of cognitive systems

Advanced Methods and Applications for Neurointelligence Manning Wang, Alois C. Knoll, Hu Cao, 2024-05-31 Neurointelligence techniques play a key role in building general artificial intelligence systems Some researchers and engineers have tried to design novel bio inspired algorithms and hardware by mimicking the working principles of biological nervous systems Benefiting from the progress in representational learning neuroscience and computational hardware bio inspired research has greatly contributed to the development of neurointelligence Currently advanced bio inspired methods have been widely applied in robotics visual scene understanding medical image analysis human machine interaction and so on Moreover neurointelligence covers interdisciplinary topics with neuroscience robotics artificial intelligence cognitive science machine learning and pattern recognition This research topic is intended to provide a better understanding of the opportunities challenges and promising future directions for neurointelligence

Neuromorphic Olfaction Marco S Persaud KC (Gutiérrez-Gálvez A, editors),

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