

BIOLOGICALLY INSPIRED SIGNAL PROCESSING FOR CHEMICAL SENSING%0A

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Biologically Inspired Signal Processing for Chemical ... This volume presents a collection of research advances in biologically inspired signal processing for chemical sensing. The olfactory system, and the gustatory system to a minor extent, has been taken in the last decades as a source of inspiration to develop artificial sensing systems. The performance of this biological system outperforms in many aspects that of their artificial counterpart. Thus, the goal of researchers in this field is to understand and capture those features that make the
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Biologically Inspired Signal Processing for Chemical ... Biologically inspired approaches for artificial sensing have been extensively applied to different sensory modalities over the last decades and chemical senses have been no exception. The olfactory system, and the gustatory system to a minor extent, has been regarded as a model for the development of new artificial chemical sensing systems.

Biologically Inspired Computation for Chemical Sensing ...

For further information on the topic, the reader is referred to the most recent review of signal and data processing in machine olfaction [3] and to the thesis of B. Raman for the introductory

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We presented novel computational models of biological olfactory pathways to understand the mechanisms that underlie the chemical information processing abilities. In the medium term, the application of innovative bioinspired data processing tools and new developments in chemical sensors will overcome the limitations of traditional gas sensing, open new applications, and contribute to the odour

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In this work, the state of the art concerning biologically inspired computation for chemical sensing will be reviewed. Instead of reviewing the whole body of computational neuroscience of olfaction, we restrict this review to the application of models to the processing of real chemical sensor data.

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