



Olfaction: A Model System for Computational Neuroscience

By -

Bradford Book. Paperback. Book Condition: New. Paperback. 331 pages. Dimensions: 9.9in. x 7.1in. x 0.7in. Computational neuroscientists have recently turned to modeling olfactory structures because these are likely to have the same functional properties as currently popular network designs for perception and memory. This book provides a useful survey of current work on olfactory system circuitry, including connections of this system to brain structures involved in cognition and memory, and describes the computational models of olfactory processing that have been developed to date. Contributions cover empirical investigations of the neurobiology of the olfactory systems (anatomy, physiology, synaptic plasticity, behavioral physiology) as well as the application of computer models to understanding these systems. Fundamental issues in olfactory processing by the nervous systems such as experimental strategies in the study of olfaction, stages of odor processing, and critical questions in sensory coding are considered across empirical/applied boundaries and throughout the contributions. Joel L. Davis is Program Manager of the Biological Intelligence Section at the Office of Naval Research. Howard Eichenbaum is Professor of Biological Sciences at Wellesley College. Contributors: 1. Fundamental Anatomy, Physiology, and Plasticity of the Olfactory System. Gordon M. Shepherd. John S. Kauer, S. R. Neff, Kathryn A. Hamilton, and Angel...



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Reviews

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