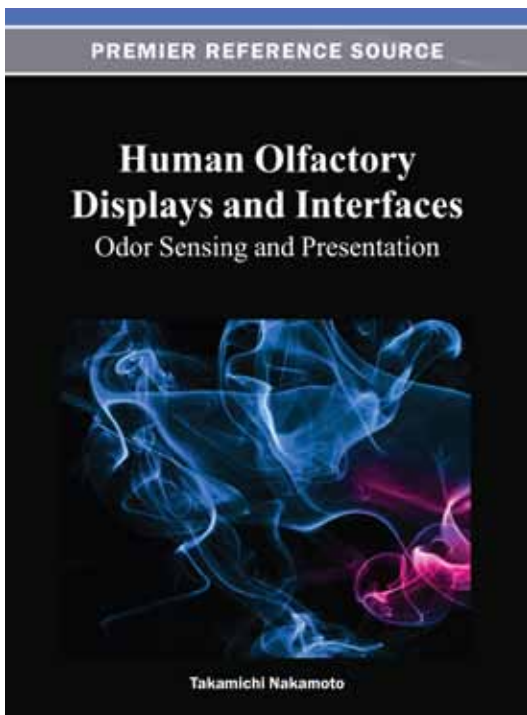


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Human Olfactory Displays and Interfaces: Odor Sensing and Presentation



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Takamichi Nakamoto (Tokyo Institute of Technology, Japan)

Although good devices exist for presenting visual and auditory sensations, there has yet to be a device for presenting olfactory stimulation. Nevertheless, the area for smell presentation continues to evolve and smell presentation in multimedia is not unlikely in the future.

Human Olfactory Displays and Interfaces: Odor Sensing and Presentation provides the opportunity to learn about olfactory displays and its odor reproduction. Covering the fundamental and latest research of sensors and sensing systems as well as presentation technique, this book is vital for researchers, students, and practitioners gaining knowledge in the fields of consumer electronics, communications, virtual realities, electronic instruments, and more.

Topics Covered:

- Analytical Method for Gas
- Cross Modal Effect of Olfaction with Other Senses
- Data Analysis for Electronic Nose
- Gas Sensor Device for Electronic Nose
- Odor Recorder
- Fluid Dynamics
- Human Interface
- Olfactory Perception and Evaluation Method
- Physiology in Olfaction
- Sensory and Objective Evaluation of Olfactory Stimulus

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Takamichi Nakamoto received his B.E. and M.E. degrees in 1982 and 1984, respectively, and his Ph.D. degree in electrical and electronic engineering from Tokyo Institute of Technology, Tokyo, Japan. He worked for Hitachi in the area of VLSI design automation from 1984 to 1987. In 1987, he joined Tokyo Institute of Technology as a Research Associate. In 1993, he became an Associate Professor with the Department of Electrical and Electronics Engineering, Tokyo Institute of Technology. From 1996 to 1997, he was a Visiting Scientist at Pacific Northwest Laboratories, Richland, WA, USA. He is currently an Associate Professor with the Department of Physical Electronics, Tokyo Institute of Technology. His research interests cover chemical sensing systems, acoustic wave sensors, neural networks, virtual reality, and ASIC design.

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