



## Frontiers in Sensing: From Biology to Engineering

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## Frontiers in Sensing: From Biology to Engineering

Biological sensory systems, fine-tuned to their specific tasks with remarkable perfection, have an enormous potential for technical, industrial, and medical applications. This applies to sensors specialized for a wide range of energy forms such as optical, mechanical, electrical, and magnetic, to name just a few.

This book brings together first-hand knowledge from the frontiers of different fields of research in sensing. It aims to promote the interaction between biologists, engineers, physicists, and mathematicians and to pave the way for innovative lines of research and cross-disciplinary approaches. The topics presented cover a broad spectrum ranging from energy transformation and transduction processes in animal sensing systems to the fabrication and application of bio-inspired synthetic sensor arrays. The various contributions are linked by the similarity of what sensing has to accomplish in both biology and engineering.



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