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Grunwald, Martin (Hrsg.)

Human Haptic Perception

Basics and Applications

- Comprehensive textbook combining research and practical applications
- Dr. Martin Grunwald directs the Haptic-Research Laboratory at the Paul-Flechsig Institut for Brain Research, University of Leipzig, Germany, and collaborates with the Touch-Lab at the MIT, Boston, USA
- Chapters written by leading scientist in the field
- International authorship from academia and industry

Active touch perception, or haptic perception, is of primary importance for the planning, direction and execution of everyday actions. This complex human sensory system is gaining ever more importance for various scientific disciplines as well as practical industrial applications. An international team of 80 authors presents a comprehensive collection of writings on both aspects of research on human haptic perception. After a theoretical and historical introduction, the chapters are dedicated to neurophysiological, psychological, clinical and neuropsychological aspects of haptic perception. Results of studies into human haptic perception in the fields of virtual haptics and robotics are also included. Finally, contributions from the applied and industrial sectors illustrate the practical uses of knowledge about the human sense of touch. This easily accessible textbook gives not only students, scientists and those with prior knowledge, but also interested laypersons insights into a fascinating area of study.

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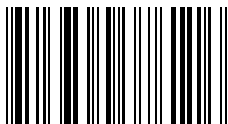
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