

1. Record Nr.	UNINA9910483555903321
Titolo	Haptic Interaction : Perception, Devices and Algorithms // edited by Hiroyuki Kajimoto, Dongjun Lee, Sang-Youn Kim, Masashi Konyo, Ki-Uk Kyung
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-3194-4
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIII, 341 p. 202 illus., 180 illus. in color.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 535
Disciplina	629.892
Soggetti	Control engineering Robotics Automation User interfaces (Computer systems) Human-computer interaction Biomedical engineering Psychology, Experimental Surgery Clinical psychology Rehabilitation Mentally ill - Rehabilitation Control, Robotics, Automation User Interfaces and Human Computer Interaction Biomedical Engineering and Bioengineering Experimental Psychology Rehabilitation Psychology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Perception and psychophysics of haptics -- Tactile devices for skin sensation such as vibration, pressure and temperature, and their rendering methods -- Force feedback devices and rendering methods -- Sensors such as pressure distribution sensor and force sensor -- Medical application including surgery simulation and rehabilitation --

Application of haptics to VR, telepresence and multimedia, all exploring new application area of haptics.

---

Sommario/riassunto

This book constitutes the proceedings of the third international conference AsiaHaptics 2018, held in Songdo, Korea. It presents the state-of-the-art of the diverse haptics (touch)-related research, including perception and illusion, development of haptics devices, and applications to a wide variety of fields such as education, medicine, telecommunication, navigation and entertainment. This book is a valuable resource not only for active haptics researchers, but also for general readers wishing to understand the status quo in this interdisciplinary area of science and technology.

---