

1. Record Nr.	UNINA9910337469603321
Titolo	Wearable Robotics: Challenges and Trends : Proceedings of the 4th International Symposium on Wearable Robotics, WeRob2018, October 16-20, 2018, Pisa, Italy // edited by Maria Chiara Carrozza, Silvestro Micera, José L. Pons
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-01887-3
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (541 pages) : illustrations
Collana	Biosystems & Biorobotics, , 2195-3562 ; ; 22
Disciplina	629.892
Soggetti	Biomedical engineering Robotics Automation User interfaces (Computer systems) Medical rehabilitation Management Industrial management Biomedical Engineering and Bioengineering Robotics and Automation User Interfaces and Human Computer Interaction Rehabilitation Medicine Innovation/Technology Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Wearable Sensors for Robotic Exoskeletons -- Soft Wearable Robots -- Benchmarking Wearable Robots -- Wearable Robotic Solutions for Factories of the Future -- Biorobotics Approaches to understand and Restore Human Balance -- Exoskeleton Research in Europe.
Sommario/riassunto	The book reports on advanced topics in the areas of wearable robotics research and practice. It focuses on new technologies, including neural interfaces, soft wearable robots, sensors and actuators technologies, and discusses important regulatory challenges, as well as clinical and

ethical issues. Based on the 4th International Symposium on Wearable Robotics, WeRob2018, held October 16-20, 2018, in Pisa, Italy, the book addresses a large audience of academics and professionals working in government, industry, and medical centers, and end-users alike. It provides them with specialized information and with a source of inspiration for new ideas and collaborations. It discusses exemplary case studies highlighting practical challenges related to the implementation of wearable robots in a number of fields. One of the focus is on clinical applications, which was encouraged by the colocation of WeRob2018 with the International Conference on Neurorehabilitation, INCR2018. Additional topics include space applications and assistive technologies in the industry. The book merges together the engineering, medical, ethical and political perspectives, thus offering a multidisciplinary, timely snapshot of the field of wearable technologies. .

---