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Descrizione fisica	1 online resource (XI, 587 p. 367 illus., 242 illus. in color.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 399
Disciplina	629.892
Soggetti	Control engineering Robotics Automation Biomedical engineering Artificial intelligence Engineering design Mechatronics Control, Robotics, Automation Biomedical Engineering and Bioengineering Artificial Intelligence Engineering Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Foreword -- Introduction: The research hotspots and difficulties in wearable sensor and robot -- Design of sensors and actuators -- Wearable sensors -- Advanced control system -- Clinical applications -- Rehabilitation robotics -- Other robotics related sections -- Research progress -- Acknowledgements and contributions.
Sommario/riassunto	These proceedings present the latest information on regulations and standards for medical and non-medical devices, including wearable robots for gait training and support, design of exoskeletons for the elderly, innovations in assistive robotics, and analysis of human–machine interactions taking into account ergonomic considerations.

The rapid development of key mechatronics technologies in recent years has shown that human living standards have significantly improved, and the International Conference on Wearable Sensor and Robot was held in Hangzhou, China from October 16 to 18, 2015, to present research mainly focused on personal-care robots and medical devices. The aim of the conference was to bring together academics, researchers, engineers and students from across the world to discuss state-of-the-art technologies related to various aspects of wearable sensors and robots. .