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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	From Computer Innovation to Human Integration: Current Trends and Challenges for Pervasive Health Technologies -- On challenges designing the home as a place for care -- E-Health Applications for Those in Need: Making Novel Interaction Technologies Accessible -- The Innovation Binder Approach: a guide towards a social-technical balanced pervasive health system -- The Brain Computer Interface: Barriers to Becoming Pervasive -- 'RehabMaster™': A pervasive rehabilitation platform for stroke patients and their caregivers -- Managing Telehealth and Telecare -- Personal Assistive Devices for Elderlies: Executing activities of daily living despite natural aging-related changes -- Sleep Quality Monitoring with the Smart Bed -- Interactive Infrastructures – Physical Rehabilitation Modules for Pervasive Healthcare Technology -- The Ongoing Development of a Multimedia Gaming Module to aid Speech, Language and Communication -- Pervasive Assistive Technology for the deaf-blind – Need, Emergency and Assistance through the Sense of Touch -- A New Methodology (CON-INFO) for Context-based Development of a Mobile User Interface in Healthcare Applications -- An Integrated patient-

centric approach for situated research on Total Hip Replacement: ESTHER.

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Sommario/riassunto

Providing a comprehensive introduction into and overview of the field of pervasive healthcare applications, this volume incorporates a variety of timely topics ranging from medical sensors and hardware infrastructures, to software platforms and applications, and addresses issues of user experience and technology acceptance. The recent developments in the area of information and communication technologies have laid the groundwork for new patient-centred healthcare solutions. While the majority of computer-supported healthcare tools designed in the last decades focused mainly on supporting care-givers and medical personnel, this trend changed with the introduction of pervasive healthcare technologies, which provide supportive and adaptive services for a broad variety and diverse set of end users. With contributions from key researchers the book integrates the various aspects of pervasive healthcare systems including application design, hardware development, system implementation, hardware and software infrastructures as well as end-user aspects providing an excellent overview of this important and evolving field.

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