

1. Record Nr.	UNINA9910807171403321
Titolo	pHealth 2012 [[electronic resource] ] : proceedings of the 9th International Conference on Wearable Micro and Nano Technologies for Personalized Health, June 26-28, 2012, Porto, Portugal / / edited by Bernd Blobel, Peter Pharow and Filipe Sousa
Pubbl/distr/stampa	Washington, D.C., : IOS Press, 2012
ISBN	6613717320 1-280-87601-8 9786613717320 1-61499-069-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (320 p.)
Collana	Studies in health technology and informatics, , 0926-9630 ; ; v. 177
Altri autori (Persone)	BlobelBernd PharowPeter SousaFilipe
Disciplina	610.28
Soggetti	Biosensors Nanotechnology Wearable computers Microtechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Title Page; Preface; Scientific Program Committee and Reviewers; Contents; Keynotes; pHealth; Multimodal User Interfaces to Improve Social Integration of Elderly and Mobility Impaired; R&D in Micro-Nano-Bio Systems and Contribution to pHealth; pHealth Approach; Integrating Health and Social Care Informatics to Enable Holistic Health Care; Co-Production of Health Enabled by Next Generation Personal Health Systems; Improve Quality of Life - Additional Criteria for Health and Social Care Information Technology Acceptance in an Ageing World; Health Care Management with KeepCare NovaMedTech - A Regional Program for Supporting New Medical Technologies in Personalized Health CareThe SWORD Tele-Rehabilitation System; New Approaches to Diagnosis and Therapy; Gamification and Serious Games for Personalized Health; The HemoCop

Telemetric Sensor System: Technology and Results of in-vivo Assessment; Inductive Coupling System for Endovascular Aneurysm Repair Monitoring; Long Term Monitoring of Blood Flow at Multiple Depths - Observations of Changes; Identification of Sit-to-Stand and Stand-to-Sit Transitions Using a Single Inertial Sensor; Monitoring Special Diseases

An Approach to Geotracking Patients with Alzheimer's Disease; A System for Inference of Spatial Context of Parkinson's Disease Patients; The Use of Exer-Learning Games for Rehabilitation in Spa Clinics and at Home; Force and Touch Make Video Games 'Serious' for Dexterity Rehabilitation; pHealth System Architecture, Design and Implementation; Standards and Solutions for Architecture Based, Ontology Driven and Individualized Pervasive Health; Mobile Health Apps - From Singular to Collaborative; Architectural Approach for Semantic EHR Systems Development Based on Detailed Clinical Models Adaptive Intelligent Systems for pHealth - An Architectural Approach; Architectural Analysis of Clinical Ontologies for pHealth Interoperability; Wearable Sensor Systems; pHealth and Wearable Technologies: A Permanent Challenge; The Challenges Facing Wearable Sensor Systems; Wearable Monitoring Systems in Pre-Term Newborns Care; Wearable Wireless Multi-Parameter Sensor Module for Physiological Monitoring; A Wearable Sensor Network for Human Locomotion Data Capture; Sport Monitoring with Smart Wearable System; ZigBee-Based Remote Patient Monitoring; Smartphone Applications

User Clustering in Smartphone Applications; Extraction of ABCD Rule Features from Skin Lesions Images with Smartphone; Personalised Mobile Health and Fitness Apps: Lessons Learned from myFitnessCompanion\_R; Dance! Don't Fall - Preventing Falls and Promoting Exercise at Home; Ambient Assisted Living; An Ecosystem of Products and Systems for Ambient Intelligence - The AAL4ALL Users Perspective; Towards Interoperability and Integration of Personal Health and AAL Ecosystems; JIM: A Novel and Efficient Accelerometric Magnitude to Measure Physical Activity

User Experiences of Mobile Controlled Games for Activation, Rehabilitation and Recreation of Elderly and Physically Impaired

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## Sommario/riassunto

Microsystems, smart textiles, telemedicine, smart implants and sensor-controlled medical devices have become important enablers for monitoring and treatment in both inpatient and outpatient care. Indeed, micro and nano technologies have tremendous potential for increasing access to care whilst managing healthcare costs. They are set to be at the heart of evolutionary and revolutionary changes in healthcare, and are crucial, not only for the future of medicine, but also for the improvement of health care and welfare processes today and tomorrow. This book presents the proceedings of the 2012 pH

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