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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 DiseaseA 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 ApproachArchitectural 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
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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