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Titolo	Wearables in healthcare : second EAI International Conference, HealthWear 2020, Virtual event, December 10-11, 2020, Proceedings / / Paolo Perego, Nima TaheriNejad, Maurizio Caon (editors)
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Descrizione fisica	1 online resource (X, 209 p. 81 illus., 66 illus. in color.)
Collana	Lecture notes of the Institute for Computer Sciences, Social Informatics, and Telecommunications Engineering ; ; 376
Disciplina	610.28
Soggetti	Biomedical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Blood Pressure Estimation using a Single PPG Signal -- Multi-level Motion Artifacts Reduction in Photoplethysmography Signal using Singular Value Decomposition -- Intraoral Monitoring of Photoplethysmogram Signal to Estimate Cardiorespiratory Parameters -- Empowering the Citizen in the Main Pillars of Health by Using IoT -- Sharing Wearable Health Data using User-defined Blockchain Policies -- Wearable textile-based device for human lower-limbs kinematics and muscle activity sensing -- Integration of Wearable Inertial Sensors and Mobile Technology for Outpatient Functional Assessment: a Paradigmatic Application to Evaluate Shoulder Stability -- Multimodal Wearable System for Motor Rehabilitation - Design perspective and Development -- Quality-by-Design Development of a Patient Mobility e-Monitoring System -- Wear-to-Care. Co-designing the Next Wave of Open Wearables in the Healthcare sector -- Parametric Design and Data Visualization for Orthopedic Devices -- Design of an innovative integrated system for upper limb prosthesis Participant modeling: The use of a guided master in the modern world of Virtual Reality Exposure Therapy -- Automatic assessment of Clinical Frailty of Parkinson's Disease subjects by wearable actigraphy -- Development of a wearable sensors system to monitor foot-transmitted vibration -- ADLs Detection with a Wrist-Worn Accelerometer in Uncontrolled Conditions.

This book constitutes the refereed post-conference proceedings of the Second EAI International Conference on Wearables in Healthcare, HealthWear 2020. Due to COVID-19 pandemic the conference was held virtually. The 16 revised full papers were carefully reviewed and selected from 40 submissions. They focus on wearable devices and systems for healthcare and wellbeing. The papers are organized in topical sections as follows: PPG and algorithms focusing on photoplethysmography, PPG monitoring and cardiorespiratory measurement. The next section focus on IoT and smart sensors on the use of wearable devices and systems for Internet of Medical Things application. The third section is a new session introducing wearable applications. This track focuses on the intrinsic multidisciplinary of wearable devices, and includes works on methodology and design aspect of wearable research.

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