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| Nota di contenuto | Personal Informatics and Wearable Devices: Robust Respiration Sensing Based on Wi-Fi Beamforming -- Heart Rate During Sleep Measured Using Finger-, Wristand Chest-Worn Devices: A Comparison Study -- A Low-Cost Wearable System to Support Upper Limb Rehabilitation in Resource-Constrained Settings -- Computer Vision: Multiclass Semantic Segmentation of Mediterranean Food Images -- Comparative Study of Machine Learning Methods on Spectroscopy Images for Blood Glucose Estimation -- Classification of Kidney Tumor grading on Preoperative Computed Tomography Scan -- IoT-HR: Internet of Things in Health Research: An IoT-based system for the study of neuropathic pain in spinal cord injury -- IoT smart shoe solution for neuromuscular disease monitoring -- Compliance and Usability of an Asthma Home Monitoring System -- Assessing Older Adult’s Gait |

Speed with Wearable Accelerometers in Community Settings: Validity and Reliability Study -- Healthcare Based on IoT using Arduino, MPU6050 accelerometer and gyroscope sensor and FSR-174 strain gauge for fatigue assessment -- Smartphone-based strategy for Quality-of-Life monitoring in head and neck cancer survivors -- Pervasive Health for COVID-19: COVID-19 Classification Algorithm based on Privacy Preserving Federated Learning -- Flattening the Curve through Reinforcement Learning riven Test and Trace Policies -- Connecting Self-reported COVID-19 Needs with Social Determinants of Health -- Machine Learning, Human Activity Recognition and Speech Recognition: Up-Sampling Active Learning: An Activity Recognition Method for Parkinson's Disease Patients -- Your Day in Your Pocket: Complex Activity Recognition from Smartphone Accelerometers -- Research on Passive Assessment of Parkinson's Disease Utilising Speech Biomarkers -- Millimeter Wave Radar Sensing Technology for Filipino Sign Language Recognition -- Dehydration Scan: An Artificial Intelligence Assisted Smartphone-based System for Early Detection of Dehydration -- Software Frameworks and Interoperability: Experiencer: An Open-source Context-Sensitive Wearable Experience Sampling Tool -- BONVITA: Enabling integrated self-care for improving chronic patient's wellbeing -- Data Analytics For Health and Connected Care: Ontology, Knowledge Graph and Applications -- Health data semantics: Exploring requirements for sustainable health systems -- Facial Recognition, Gesture Recognition and Object Detection -- A quantitative comparison of manual vs. automated facial coding using real life observations of fathers -- Knowledge-Driven Dialogue and Visual Perception for Smart OR -- MM4Drone: A Multi-Spectral Image and MmWave Radar Approach for Identifying Mosquito Breeding Grounds via Aerial Drones -- Machine Learning, Predictive Models and Personalised Healthcare: Spatio-temporal Predictive Modeling for Placement of Substance Use Disorder Treatment Facilities in the Midwestern U.S -- Linking data collected from mobile phones with disease level in Parkinson's. Data exploration of the mPower study -- An Exploratory Study of the Value of Vital Signs on the Short-term Prediction of Subcutaneous Glucose Concentration in Type 1 Diabetes – The GlucoseML Study -- Less Is More: Leveraging Digital Behavioral Markers for Real-Time Identification of Loneliness in Resource-Limited Settings -- Toward Understanding Users' Interactions with a Mental Health App: An Association Rule Mining Approach -- Application of Shapley Additive Explanation towards Determining Personalized Triage from Health Checkup Data -- Human-Centred Design of Pervasive Health Solutions: Dance Mat Fun - A Participatory Design of Exergames for Children with Disabilities -- Designing hearing aids to mitigate perceived stigma associated with hearing impairment -- Demands on User Interfaces for People with Intellectual Disabilities, their Requirements, and Adjustments -- A Rule Mining and Bayesian Network Analysis to Explore the Link Between Depression and Digital Behavioral Markers of Games App Usage -- mHealth for Medication and Side Effect Monitoring: Pa-tients' Attitudes Toward Smart Devices for Managing Oral Chemotherapy during Lung Cancer Treatment -- Exploring the Design Space of Technological Interventions for Menopause: A Systematic Review -- Personalized Healthcare: Understanding barriers of missing data in Personal Informatics Systems -- "I have to do something about it" - An Exploration of How Dashboards Invoke Self-Reflections in Chronic Obstructive Pulmonary Disease Patients -- Design of a social chatbot with gamification for user profiling and smoking trigger detection -- Specification of Quality of Context Requirements for Digital Phenotyping Applications --

Patient Data Work with Consumer Self-Tracking: Exploring Affective and Temporal Dimensions in Chronic Self-Care -- Personalizing mHealth Persuasive Interventions for Physical Activity_the Impact of Personality on the Determinants of Physical Activity.

Sommario/riassunto

This book constitutes the refereed proceedings of the 16th EAI International Conference on Pervasive Computing Technologies for Healthcare, PervasiveHealth 2022, which took place in Thessaloniki, Greece, in December 2022. The 45 full papers included in this volume were carefully reviewed and selected from 120 submissions. The papers are organized in the following topical sections: personal informatics and wearable devices; computer vision; IoT-HR: Internet of things in health research; pervasive health for COVID-19; machine learning, human activity recognition and speech recognition; software frameworks and interoperability; facial recognition, gesture recognition and object detection; machine learning, predictive models and personalised healthcare; human-centred design of pervasive health solutions; personalized healthcare.