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Soggetti	Computer networks Artificial intelligence Application software Computers, Special purpose Computer systems User interfaces (Computer systems) Human-computer interaction Computer Communication Networks Artificial Intelligence Computer and Information Systems Applications Special Purpose and Application-Based Systems Computer System Implementation User Interfaces and Human Computer Interaction
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	IoT and AI Solutions for E-health -- Alzheimer's Disease Early Detection Using a Low Cost Three-dimensional Densenet-121 Architecture -- Self-adaptative Early Warning Scoring System for Smart Hospital -- Machine Learning Based Rank Attack Detection for Smart Hospital

Infrastructure -- Remote Health Monitoring Systems Based on Bluetooth Low Energy (BLE) Communication Systems -- Modeling and Specification of Bootstrapping and Registration Design Patterns for IoT Applications -- Biomedical and Health Informatics -- EEG-based Hypovigilance Detection Using Convolutional Neural Network -- Respiratory Activity Classification Based on Ballistocardiogram Analysis -- A Convolutional Neural Network for Lentigo Diagnosis -- Deep Learning-based Approach for Atrial Fibrillation Detection -- Unsupervised Method Based on Superpixel Segmentation for Corpus Callosum Parcellation in MRI Scans -- Behavior and Activity Monitoring -- Using Learning Techniques to Observe Elderly's Behavior Changes Over Time -- Personalized and Contextualized Persuasion System for Older Adults' Physical Activity Promoting -- Baseline Modelling and Composite Representation of Unobtrusively (IoT) Sensed Behaviour Changes Related to Urban Physical Well-being -- Wellbeing Technology -- Automatic Daily Activity Schedule Planning for Simulating Smart House with Elderly People Living Alone -- A Novel On-wrist Fall Detection System Using Supervised Dictionary Learning Technique -- Combined Machine Learning and Semantic Modelling for Situation Awareness and Healthcare Decision Support -- Improving Access and Mental Health for Youth Through Virtual Models of Care -- Short Contributions: IoT and AI Solutions for E-health -- Study of Middleware for Internet of Healthcare Things and Their Applications -- Uncertainty in IoT for Smart Healthcare: Challenges, and Opportunities -- Secure E-health Platform -- Hybrid and Secure E-health Data Sharing Architecture in Multi-Clouds Environment -- Blockchain for Internet of Medical Things: A technical Review -- Application of Blockchain Technology in Healthcare: A Comprehensive Study -- Trust Execution Environment and Multi-party Computation for Blockchain E-health Systems -- A Fuzzy-ontology Based Diabetes Monitoring System Using Internet of Things -- Short Contributions: Biomedical and Health Informatics -- A Hybrid Approach for Heart Disease Diagnosis and Prediction Using Machine Learning Techniques -- Context-aware Healthcare Adaptation Model for COPD Diseases -- Study of Healthcare Professionals' Interaction in the Patient Records with Annotations -- Multirate ECG Processing and Machine Learning Based Efficient Arrhythmia Diagnosis -- Comparative Study of Relevant Methods for MRI/X Brain Image Registration -- Machine Learning Classification Models with SPD/ED Dataset: Comparative Study of Abstract Versus Full Article Approach -- Evaluation of Stationary Wavelet Transforms in Reconstruction of Pure High Frequency Oscillations (HFOs) -- Ensuring the Correctness and Well Modeling of Intelligent Healthcare Management Systems -- Short Contributions: Wellbeing Technology -- An Embedded ANN Raspberry PI for Inertial Sensor Based Human Activity Recognition -- Human Activities Recognition in Android Smartphone using WSVM-HMM Classifier -- Mobile Assistive Application for Blind People in Indoor Navigation -- Older People's Needs and Opportunities for Assistive Technologies -- Towards a Formal Context-Aware Workflow Model for Ambient Environment -- The PULSE Project: A Case of Use of Big Data Uses Toward a Cohomprehensive Health Vision of City Well Being -- ForeSight - An AI-driven Smart Living Platform, Approach to Add Access Control to openHAB.

Sommario/riassunto

This open access book constitutes the refereed proceedings of the 18th International Conference on String Processing and Information Retrieval, ICOST 2020, held in Hammamet, Tunisia, in June 2020.* The 17 full papers and 23 short papers presented in this volume were carefully reviewed and selected from 49 submissions. They cover topics

such as: IoT and AI solutions for e-health; biomedical and health informatics; behavior and activity monitoring; behavior and activity monitoring; and wellbeing technology. *This conference was held virtually due to the COVID-19 pandemic.
