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Nota di contenuto	Intelligent Usability and Test System -- IoT System for Monitoring a Large-Area Environment Sensors and Control Actuators using Real-Time Firebase Database -- A Method for Localizing and Grasping Objects in a Picking Robot System Using Kinect Camera -- A comparative analysis on the impact of face tracker and skin segmentation onto improving the performance of real-time remote photoplethysmography -- Fuzzy-PID-Based Improvement Controller for CNC Feed Servo System -- Plastic Optical Fiber Sensors Based on In-Line Micro-holes: A Review -- Long-Distance Real-Time Rolling Shutter Optical Camera Communication Using MFSK Modulation Technique -- A Systematic Review of Augmented Reality in Multimedia Learning Outcomes in Education -- RFID Technology for UOH Health Care Center -- An IOT based smart drain monitoring system with alert messages -- Design and Implementation of a Safety Device for Emergency Situations using Arduino and GSM Module -- Design and Implementation of an IoT System for Predicting Aqua Fisheries using Arduino and KNN -- A Fast and Secure Uniform Handover Authentication Scheme For 5G HetNets -- Assistive Living -- An Automated Wheelchair for Physically Challenged People using Hand Gesture and Mobile App -- Gait analysis using video for disabled people in marginalized communities -- Implementation of CNN Model

for Classification of User Sitting Posture Based on Pressure Distribution -- Implementation of Rehabilitation Exercise Posture Determination System based on CNN using EMG and Acceleration Sensors -- Grabbing Pedestrian Attention with Interactive Signboard for Street Advertising -- Requirements for Upper-limb Rehabilitation with FES and Exoskeleton -- Development of Biosensor for Pressure Sores Diagnosis and Treatment Using Bio Photonics with Impedance -- Sustainably Stemming the Nursing Care Crisis in Germany -- First Eye tracking Results of Dutch Corona Melder Contact Tracing and Notification App -- Architecture of an IoT and Blockchain Based Medication Adherence Management System -- Image Processing and Deep Learning -- Face anti-spoofing based on deep neural network using brightness augmentation -- Face Spoofing Detection Using DenseNet -- 1-Stage Face Landmark Detection using Deep Learning -- Image identification of multiple parrot species belonging to CITES using deep neural networks -- Automatic Detection of Trypanosomosis in Thick Blood Smears Using Image Pre-processing and Deep Learning -- Adaptive margin-based liveness detection for face recognition -- A study on a Mask R-CNN-based diagnostic system measuring DDH angles on ultrasound scans -- Comparison of SVM and Random Forest Methods for Online Signature Verification -- Human-Centered AI Applications -- Audio Augmented Reality using Unity for Marine Tourism -- A Prototype Wristwatch Device for Monitoring Vital Signs Using Multi-wavelength Photoplethysmography Sensors -- User Perception on an Artificial Intelligence Counseling App -- Authentication of Facial Images with Masks using Periocular Biometrics -- Analysis of user preference of AR head-up display using Attrakdiff -- IoT-Enabled Mobile Device for Electrogastrography Signal Processing -- A study on the usability test method of collaborative robot based on ECG Measurement -- The Human Factor Assessment of Consumer Air Purifier Panel Using Eye Tracking Device -- AI-based Voice Assistants Technology Comparison in Term of Conversational and Response Time -- HCI Based In-Cabin Monitoring System for Irregular Situations with Occupants Facial Anonymization -- Achievement of generic and professional competencies through virtual environments -- AARON: Assistive Augmented Reality Operations and Navigation System for NASA's Exploration Extravehicular Mobility Unit (xEMU*) -- Socio-Cognitive Interaction between Human and Computer/Robot for HCI 3.0.

Sommario/riassunto

The two-volume set LNCS 12615 + 12616 constitutes the refereed proceedings of the 12th International Conference on Intelligent Human Computer Interaction, IHCI 2020, which took place in Daegu, South Korea, during November 24-26, 2020. The 75 full and 18 short papers included in these proceedings were carefully reviewed and selected from a total of 185 submissions. The papers were organized in topical sections named: cognitive modeling and systems; biomedical signal processing and complex problem solving; natural language, speech, voice and study; algorithms and related applications; crowd sourcing and information analysis; intelligent usability and test system; assistive living; image processing and deep learning; and human-centered AI applications.
