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   Nota di contenuto   Deep fake video detection using the frequency characteristic of remote
                         photoplethysmography -- A Multi-Layered Deep Learning Approach for
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                         comparing features of digital image vectors based on the analysis of
                         local extrema -- Calculation Of Spectral Coefficients Of Signals On The
                         Basis Of Haar By The Method Of Machine Learning -- Optimization of
                         fractal structure pattern colors in carpet design using genetic algorithm
                         -- Algorithm For Digital Processing Of Seismic Signals In Distributed
                         Systems -- Methods for creating a morphological analyzer -- Uzbek
                         Speech Synthesis Using Deep Learning Algorithms -- Speech
                         Recognition Technologies Based on Artificial Intelligence Algorithms --
                         Multimodal Human Computer Interaction using Hand Gestures and
                         Speech -- Emotion Recognition in VAD space during Emotional Events
                         using CNN-GRU hybrid model on EEG Signals -- Multiclass
                         Classification of online reviews using NLP & Machine Learning for Non-
                         English Language -- A Higher Performing DARTS Model for CIFAR-10
                         -- Automatic speech recognition on the neutral network based on
                         attention mechanism -- Equal Temperament and Just intonation
                         Feature based Emotion Predictions in Carnatic Music -- Emotion

classification through facial expressions using SVM and Convolutional Neural Classifier -- On the Evaluation of Stylised Lyrics using Deep Generative Models: A Preliminary Study -- GWD: Graded Word Drop Model for When Type Questions for Hindi QA -- Masked Face Recognition Model with Explainable AI -- UX design workshop for building relationships between humans and intelligent objects using 'T+e=B' toolkit -- A Longitudinal Study of the Emotional Content in Indian Political Speeches -- Building A Local Classifier For Component-Based Face Recognition -- Dominance Submissiveness Predisposition Scale (DSPS) : Development and Validation -- Design of a Mixed Reality-based Immersive Virtual Environment System for Social Interaction and Behavioral Studies -- Privacy-preserving Digital Intervention for Mental Health using Federated Learning -- How can humans and robots live together?: The 5 types of human-robot relationship -- Effectiveness Of Deep Learning Based Filtering Algorithm In Separation Of Human Objects From Images -- Building the Groundwork for a Natural Search, to Make Accurate and Trustworthy Filtered Searches: The Case of a New Educational Platform with a Global Heat Map to Geolocate Innovations in Renewable Energy -- Implementation of Virtual Sea Environment with 3D Whale Animation -- A Constant-Factor Approximation Algorithm for Online Coverage Path Planning with Energy Constraint -- Real-time Image based Plant phenotyping using Tiny-YOLOv4 -- Influence Of Packet Switching And Routing Methods On The Reliability Of The Data Transmission Network And The Application Of Artificial Neural Networks -- Do Users' Values Influence Trust in Automation? -- Automation of Calibration Procedure for Milk Non Automatic Weighing Instrument(NAWI) Process -- Low-cost Entry-level Educational Drone with Associated K-12 Education Strategy -- Creating a Modular and Decentralized Smart Mailbox System Using LoRaWan Networks -- A converting model 3D gaze direction to 2D gaze position -- Application of fiber optic sensors in aircraft fuel management system -- Intelligent multi-tariff payment collection system for in-ter-municipal buses in the Department of Atlántico – Colombia -- Agent-based modelling and simulation of public transport to identify effects of network changes on passenger flows -- Exploiting Security and Privacy Vulnerability in Human-IoT Interaction through the Virtual Assistant Technology in Amazon Alexa -- User Experience in Virtual Reality using Threshold Space in between Different Physical Laws -- Monitoring Pollination by Honeybee using Computer Vision -- Modeling the problem of integral geometry on the family of broken lines based on Tikhonov regularization -- A Framework for Privacy-Preserved Collaborative Learning in Smart Factory Environment -- Co-creating Computer Supported Collective Intelligence in Citizen Science Hubs -- Gaze Detection using Encoded Retinomorphic Events -- Extremely Lightweight Skin Segmentation Networks to Improve Remote Photoplethysmography Measurement -- Privacy-Friendly Phishing Attack Detection using Personalized Federated Learning -- CovidMis20: COVID-19 Misinformation Detection System on Twitter Tweets using Deep Learning Models -- Development of School Library Network Based on Cloud Technologies in Uzbekistan -- Parallel Resource Defined Fitness Sharing -- EEG-based Key Generation Cryptosystem for Strengthening Security of Blockchain Transactions -- Improving Gaze Estimation Performance using Ensemble Loss Function -- Non-Overlayed Guidance in Augmented Reality: User Study in radio-pharmacy -- Development Of A Novel Method For Image Resizing Using Artificial Neural Network -- From Angular to Vue: A Cross-Language Comparative Survey of Web Frameworks.

Sommario/riassunto

This book constitutes the refereed proceedings of the 14th International Conference on Intelligent Human Computer Interaction, IHCI 2022, held in Tashkent, Uzbekistan, during October 20–22, 2022. The 47 full papers and 13 short papers included in this book were carefully reviewed and selected from 148 submissions. They were organized in topical sections as follows: Bio-inspired Computing; Cognitive computing; Human Centered AI; Intelligent Technology for Post-Covid and Web Frameworks.