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Collana	Information Systems and Applications, incl. Internet/Web, and HCI, , 2946-1642 ; ; 12777
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Soggetti	User interfaces (Computer systems) Human-computer interaction Artificial intelligence Computer vision Application software Social sciences - Data processing User Interfaces and Human Computer Interaction Artificial Intelligence Computer Vision Computer and Information Systems Applications Computer Application in Social and Behavioral Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Ergonomics, Human Factors and Occupational Health -- Addressing Human Factors and Ethics in the design of 'Future Work' and Intelligent Systems for use in Financial Services - person centered operations, Intelligent Work & the Triple Bottom Line -- Digital Human-in-the-loop Methodology for Early Design Computational Human Factors -- Well-being at Work: Applying a Novel Approach to Comfort Elicitation -- Opportunities of Digitalization and Artificial Intelligence for Occupational Safety and Health in Production Industry -- Digital Human

Simulation for Fall Risk Evaluation when Sitting on Stepladders -- Study on Evaluation Index of Physical Load of Chemical Prevention Personnel in High Temperature and Humidity Environment -- Human Body and Motion Modeling -- The Wearable Resistance Exercise Booster's Design for the Elderly -- 3D Model of Ergonomic Socket Mechanism for Prostheses of Transtibial Amputees -- Evaluating the Risk of Muscle Injury in Football-kicking Training with OpenSim -- New Approaches to Movement Evaluation Using Accurate Truck Ingress Data -- A Two-step Optimization-based Synthesis of Squat Movements -- Ergonomics-based Clothing Structure Design for Elderly People -- Comparisons of Hybrid Mechanisms Based on Their Singularities for Bone Reduction Surgery: 3-RPS-3-PRP and 3-PRP-3-RPS -- The Measurement and Analysis of Chinese Adults' Range of Motion Joint -- Language, Communication and Behavior Modeling -- Modeling Rapport for Conversations about Health with Autonomous Avatars from Video Corpus of Clinician-Client Therapy Sessions -- Finding a Structure: Evaluating Different Modelling Languages Regarding their Suitability of Designing Agent-based Models -- The Role of Embodiment and Simulation in Evaluating HCI: Experiments and Evaluation -- Tracking Discourse Topics in Co-speech Gesture -- Patient-provider Communication Training Models for Interactive Speech Devices -- Semantically Related Gestures Move Alike: Towards a Distributional Semantics of Gesture Kinematics -- The Role of Embodiment and Simulation in Evaluating HCI: Theory and Framework -- The History of of Agent-Based Modeling in the Social Sciences -- Medical-based Pictogram: Comprehension of Visual Language with Semiotic Theory -- Data Mining in Systematic Reviews: A Bibliometric Analysis of Game-based Learning and Distance Learning -- Sequence-to-Sequence Predictive Model: from Prosody to Communicative Gestures.

Sommario/riassunto

This two-volume set LNCS 12777 and 12778 constitutes the thoroughly refereed proceedings of the 12th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management, DHM 2021, which was held virtually as part of the 23rd HCI International Conference, HCII 2021, in July 2021. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. DHM 2021 includes a total of 56 papers; they were organized in topical sections named: Part I, Human Body, Motion and Behavior: Ergonomics, human factors and occupational health; human body and motion modeling; and language, communication and behavior modeling. Part II, AI, Product and Service: Rethinking healthcare; artificial intelligence applications and ethical issues; and digital human modeling in product and service design.
