

1. Record Nr.	UNINA9910578694603321
Titolo	Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management. Anthropometry, Human Behavior, and Communication : 13th International Conference, DHM 2022, Held as Part of the 24th HCI International Conference, HCII 2022, Virtual Event, June 26 – July 1, 2022, Proceedings, Part I // edited by Vincent G. Duffy
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-031-05890-9
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (377 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 13319
Disciplina	001.434 612.00113
Soggetti	User interfaces (Computer systems) Human-computer interaction Computer engineering Computer networks Social sciences - Data processing Electronic commerce User Interfaces and Human Computer Interaction Computer Engineering and Networks Computer Application in Social and Behavioral Sciences e-Commerce and e-Business
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Ergonomic Design, Anthropometry, and Human Modeling -- Testing of Different Strings for their Usability in Actuation of Exosuits -- Utilizing Digital Human Modeling to Optimize the Ergonomic Environment of Heavy -- An Early Design Method to Quantify Vision Obstruction: Formula One (F1) Halo Case Study -- Redesigning an Excavator Operator's Seat and Controls using Digital Human Modelling in RAMSIS -- Research on the Index System for Evaluating the Ergonomics Design of Helicopter Cockpits -- A Design Method of Sports Protective Gear Based on Periodic Discrete Parameterization -- Feasibility Study for the

Physical Load Evaluation of Construction Machine Ingress and Maintenance -- Computer-Aid Ergonomic Analysis of Excavator Driver's Body Posture Model -- Grasp Intent Modelling through Multi Sensorial Data -- Research on Adjustable Classroom Desks and Chairs Based on the Human Dimensions of Chinese Minors -- A Bed Design Model Research for the Self-care Elderly -- Grasp Synthesis for the Hands of Elderly People with Reduced Muscular Force, Slippery Skin, and Limitation in Range of Motion -- Design and Application of Skirt Fit Software for Human Body Ontology Knowledge -- Improvement of Chair in Ladder Classroom Based on Human Data and Behavior Investigation of College Students -- Development and Verification of Measurement Tools for Human Dynamic Development -- Collaboration, Communication, and Human Behavior -- AI-driven Human Motion Classification and Analysis using Laban Movement System -- A Biometric Analysis of Robot Collaborative Service During 2011-2021 -- Subjective Scores and Gaze Distribution in Personality Evaluations: Effect of Subjects' Clothing on Observers' Impressions of Them -- A Dynamic Semantics for Multimodal Communication -- The Interaction Space: Considering Speaker-hearer Location in Co-speech Gesture Analysis and Annotation -- Safety Issues in Human-Machine Collaboration and Possible Countermeasures -- ViCon - Towards Understanding Visual Support Systems in Collaborative Video Conferencing -- Revolutionizing Ergonomics in Manufacturing Processes Using Collaborative Robots: A Systematic Literature Review -- Multimodal Analysis of Interruptions -- Correlation Study of Clothing Pressure and Reducing Exercise Fatigue During Exergames -- Study on the Sailors' Athletic Ability Change Rule of Long-Time Simulated Voyage.

Sommario/riassunto

This two-volume set LNCS 1319 and 13320 constitutes the thoroughly refereed proceedings of the 13th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management, DHM 2022, which was held virtually as part of the 24rd HCI International Conference, HCII 2022, in June/July 2022. The total of 1271 papers and 275 poster papers included in the 39 HCII 2022 proceedings volumes was carefully reviewed and selected from 5487 submissions. DHM 2022 includes a total of 56 papers. The first volume focuses on topics related to ergonomic design, anthropometry, and human modeling, as well as collaboration, communication, and human behavior. The second volume focuses on topics related to task analysis, quality and safety in healthcare, as well as occupational health and operations management, and Digital Human Modeling in interactive product and service design.
