

3D Body Scanning and Healthcare Applications

Developed largely for the clothing industry, 3D body-surface scanners are transforming our ability to accurately measure and visualize a person's body size, shape, and skin-surface area. Advancements in 3D whole-body scanning seem to offer even greater potential for healthcare applications.



*Philip Treleaven
and
Jonathan Wells*
University College London

Medical practitioners have traditionally measured the body's size and shape by hand to assess health status and guide treatment. More recently, computed-tomography (CT) scanners have been able to produce 3D internal images of a patient's body. Now, 3D body-surface scanners are transforming the ability to accurately measure a person's body size, shape, and skin-surface area. Although developed primarily for the clothing industry, 3D scanners' low cost, noninvasive character, and ease of use make them appealing for widespread clinical applications and large-scale epidemiological surveys.¹

HIGHLY ACCURATE MAPS

Whole-body scanners can capture highly accurate 3D body maps in 1 to 10 seconds. They let a computer automatically extract hundreds of measurements from a scan while eliminating manual measurement and transcription errors, allowing future remeasurement of scans, and greatly reducing the cost of anthropometric surveys. A body scan produces a point cloud, from which a computer extracts surface details, such as measurements associated with a body landmark as Figure 1 shows.

Human-body metrics

Technological advances in recent years have enabled diagnostic studies to reveal more detailed information about the body's internal structure. X-rays, magnetic resonance imaging (MRI), CT, and ultrasound have revolutionized the capacity to study physiology and anatomy in vivo and to aid in the diagnosis and monitoring of a multitude of disease states.

External measurements of the body are just as useful. Medical professionals widely use size and shape to assess nutritional status and developmental normality and to calculate the requirements of drug, radiotherapy, and chemotherapy dosages, as well as the production of prostheses.²

Three-dimensional scanners can have a major impact on medical research and practice. More detailed information about size and shape would transform the epidemiology of many diseases, replacing the current reliance on the body mass index

3d Body Scanning And Healthcare Applications

Jianjun Gao



3d Body Scanning And Healthcare Applications:

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management Vincent G.

Duffy,2025-05-30 This three volume set LNCS 15791 15793 constitutes the refereed proceedings of the 16th International Conference on Digital Human Modeling and Applications in Health Safety Ergonomics and Risk Management DHM 2025 held as part of the 27th International Conference on Human Computer Interaction HCII 2025 in Gothenburg Sweden during June 22 27 2025 The total of 1430 papers and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from 7972 submissions The three volumes cover the following topics Part I Digital human modeling for healthcare and wellbeing AI and digital human modeling in safety and risk management and biomechanics ergonomics and risk mitigation Part II User experience design for sustainable products and public spaces and wearable and digital health monitoring Part III Healthcare and rehabilitation innovation augmented and virtual reality for health wellbeing and digital human modeling and behavioral modeling and human technology interaction *Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management. Anthropometry, Human Behavior, and Communication* Vincent G.

Duffy,2022-06-16 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 **15th International**

Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2020) Álvaro

Herrero,Carlos Cambra,Daniel Urda,Javier Sedano,Héctor Quintián,Emilio Corchado,2020-08-28 This book contains accepted papers presented at SOCO 2020 conference held in the beautiful and historic city of Burgos Spain in September 2020 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena After a through peer review process the SOCO 2020 International Program Committee selected 83 papers which are published in these conference proceedings and represents an acceptance rate of 35% Due to the COVID 19 outbreak the SOCO 2020 edition was blended combining on site and on line participation In this relevant edition a special emphasis was put on the organization of special sessions Eleven special session were organized related to relevant topics such as Soft Computing Applications in Precision Agriculture Manufacturing and Management Systems Management of Industrial and Environmental

Enterprises Logistics and Transportation Systems Robotics and Autonomous Vehicles Computer Vision Laser Based Sensing and Measurement and other topics such as Forecasting Industrial Time Series IoT Big Data and Cyber Physical Systems Non linear Dynamical Systems and Fluid Dynamics Modeling and Control systems The selection of papers was extremely rigorous in order to maintain the high quality of SOCO conference editions and we would like to thank the members of the Program Committees for their hard work in the reviewing process This is a crucial process to the creation of a high standard conference and the SOCO conference would not exist without their help

DHM and Posturography Sofia Scataglini, Gunther Paul, 2019-08-22 DHM and Posturography explores the body of knowledge and state of the art in digital human modeling along with its application in ergonomics and posturography The book provides an industry first introductory and practitioner focused overview of human simulation tools with detailed chapters describing elements of posture postural interactions and fields of application Thus DHM tools and a specific scientific practical problem the study of posture are linked in a coherent framework In addition sections show how DHM interfaces with the most common physical devices for posture analysis Case studies provide the applied knowledge necessary for practitioners to make informed decisions Digital Human Modelling is the science of representing humans with their physical properties characteristics and behaviors in computerized virtual models These models can be used standalone or integrated with other computerized object design systems to design or study designs workplaces or products in their relationship with humans Presents an introductory up to date overview and introduction to all industrially relevant DHM systems that will enable users on trialing procurement decisions and initial applications Includes user level examples and case studies of DHM application in various industrial fields Provides a structured and posturography focused compendium that is easy to access read and understand

Advances in Computational Intelligence Ignacio Rojas, Gonzalo Joya, Andreu Catala, 2017-06-04 This two volume set LNCS 10305 and LNCS 10306 constitutes the refereed proceedings of the 14th International Work Conference on Artificial Neural Networks IWANN 2017 held in Cadiz Spain in June 2017 The 126 revised full papers presented in this double volume were carefully reviewed and selected from 199 submissions The papers are organized in topical sections on Bio inspired Computing E Health and Computational Biology Human Computer Interaction Image and Signal Processing Mathematics for Neural Networks Self organizing Networks Spiking Neurons Artificial Neural Networks in Industry ANNI 17 Computational Intelligence Tools and Techniques for Biomedical Applications Assistive Rehabilitation Technology Computational Intelligence Methods for Time Series Machine Learning Applied to Vision and Robotics Human Activity Recognition for Health and Well Being Applications Software Testing and Intelligent Systems Real World Applications of BCI Systems Machine Learning in Imbalanced Domains Surveillance and Rescue Systems and Algorithms for Unmanned Aerial Vehicles End User Development for Social Robotics Artificial Intelligence and Games and Supervised Non Supervised Reinforcement and Statistical Algorithms

Humanizing work and work Environment (HWWE 2016) Dr Lakhwinder Pal Singh, Dr

Sarbjit Singh, Prof Arvind Bhardwaj, 2018-02-04 Proceedings of 14th International Conference on Humanizing work and work Environment Machine Design and Manufacturing Engineering II Katsuyuki Kida, 2013-08-16 Selected peer reviewed papers from the 2013 2nd International Conference on Machine Design and Manufacturing Engineering ICMDME 2013 May 1 2 2013 Jeju Island South Korea *Pervasive Computing Paradigms for Mental Health* Pietro Cipresso, Silvia Serino, Yuri Ostrovsky, Justin T. Baker, 2018-10-10 This book constitutes the refereed proceedings of the 7th International Conference on Pervasive Computing Paradigms for Mental Health MindCare 2018 held in Boston MA USA Jin January 2018 The 19 papers presented were carefully reviewed and selected from 30 submissions and present advanced computing and communication technologies from the use of wearable sensors and ecological virtual environments to use of big data and machine learning techniques These technologies can be used to support and promote the well being through an objective continuous data collection and personalized **Diffusion of RFID and 3D Body Scanning in Apparel Retail for Mass Customization** Sanchit Tiwari, 2007 **Applications of 3D Measurement from Images** John Fryer, Harvey Mitchell, Jim H. Chandler, 2007 Reveals through a series of case studies how modern digital photogrammetry is capable of providing accurate spatial data to solve a range of contemporary measurement problems and at a diverse range of scales This book outlines key principles and methods associated with modern imaging **Textile Horizons**, 2002 *Electronics, Biomedical Engineering, and Health Informatics (3rd edition)* Triwiyanto Triwiyanto, 2023-06-20 Selected peer reviewed extended articles based on abstracts presented at the 3rd International Conference on Electronics Biomedical Engineering and Health Informatics ICEBEHI 2022 Aggregated Book **Ei Engineering Conference Index: pt. 1. Civil, environmental, and geological engineering**, 1985 **Ei Engineering Conference Index**, 1985 **Textile Technology Digest**, 2002 **Proceedings of the XIVth Triennial Congress of the International Ergonomics Association and 44th Annual Meeting of the Human Factors and Ergonomics Society** Human Factors and Ergonomics Society. Annual meeting, 2000 **Medicine Meets Virtual Reality 02/10** James D. Westwood, 2002 **The Psychologist**, 2006 **Human Ecology**, 2013 International Textiles, 2005

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