



3DBODY.TECH

Conference & Expo

21-22 October 2025
Lugano, Switzerland



16th 3DBODY.TECH Conference & Expo

Lugano, Switzerland · 21-22 October 2025

Welcome to Lugano!

Hometrica Consulting
Dr Nicola D'Apuzzo

Opening Speech

Conference & Expo

3DBODY.TECH 2025 Program

Event Platform/App

3DBODY.TECH Proceedings

3DBODY.TECH Journal

Administrative Notes

WiFi, QR-codes

Registration Desk

Coffee breaks / lunch breaks / welcome cocktail

Conference Program - Sessions

2 Full Days

1 Opening Session

13 Technical Session in Dual-Track

3rd Track for Exhibitors' Live Demo

1 Plenary Panel

Total: approx. 70 presentations

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

3DBODY.TECH Conference & Expo 2025 16th International Conference and Expo on 3D/4D Body Scanning, Data and Processing Technologies Lugano, Switzerland, 21-22 October 2025, https://3dbody.tech						
Time	Tuesday 21 October 2025			Wednesday 22 October 2025		
08:00	Registration		Exhibition Setup	Registration		Exhibition Setup
Exhibition			Exhibition			
	09:00	Technical Session 7 Medical 3D/4D Body Scanning Systems & Applications II			Technical Session 8 3D/4D Body Scanning for Apparel II	Exhibitors Live Stream 4
	Opening Session		Exhibitors Live Stream 5			
				Coffee Break		
	11:00	Technical Session 1 Medical 3D/4D Body Scanning Systems & Applications I	Technical Session 2 3D/4D Body Scanning for Apparel I	Exhibitors Live Stream 1	Technical Session 9 3D Body Scanning in Medicine, Health & Sport	Technical Session 10 3D/4D Body Processing, Body Modeling & Avatars
12:00	Lunch Break		Lunch Break			
13:00					Exhibitors Live Stream 2	Exhibitors Live Stream 6
14:00	Technical Session 3 Body Data, Digital Anthropometry & Sizing Surveys	Technical Session 4 3D/4D Body Scanning Systems & Applications	Technical Session 11 3D/4D Face Scanning Systems & Applications	Technical Session 12 4D Body Scanning, Volumetric Capture & Gaussian Splatting		
15:00	Coffee Break		Exhibitors Live Stream 2	Coffee Break		
16:00						Panel Discussion
17:00	Technical Session 5 3D/4D Wearable Technologies	Technical Session 6 Mobile 3D Body Scanning & Measurement	Exhibitors Live Stream 3	Technical Session 13 3D Foot Scanning & Applications		
						Closing Session
18:00	Welcome Cocktail					
19:00						

Conference Program - Sessions

2 Full Days

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13 Technical Session in Dual-Track

3rd Track for Exhibitors' Live Demo

1 Plenary Panel

Total: approx. 70 presentations

Invited talk: Dr Danilo Tomasoni @ TS4

ONEBra - Customized Bra for Correcting
Asymmetric Breast Shape by
3D Scanning & 3D Printing

Plenary Panel: Wed. 4pm

3D/4D Scanning and/or
AI 3D Content Generation?

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Conference & Expo 21-22 Oct.

The background of the slide features a 3D model of a human head and shoulders, composed of a grid of small cubes, with a red and black pixelated effect around the edges.

3DBODY.TECH
Conference & Expo

PANEL DISCUSSION
3D/4D Scanning and/or
AI 3D Content Generation?

How traditional methods as
3D/4D body scanning,
3D body modeling,
3D data processing
withstand + embrace
AI advancements

Wed 22/10 · PM
3DBODY.TECH 2025

Conference Program - Sessions

Multidisciplinary Event - Presentations on:

3D&4D body scanning & capture

3D&4D body data & processing

Fashion/apparel sector

Medical & health sectors

Sport & fitness sectors

CG, gaming, entertainment sectors

Anthropometrics & Ergonomics/HF

4D Scanning



AI/ML



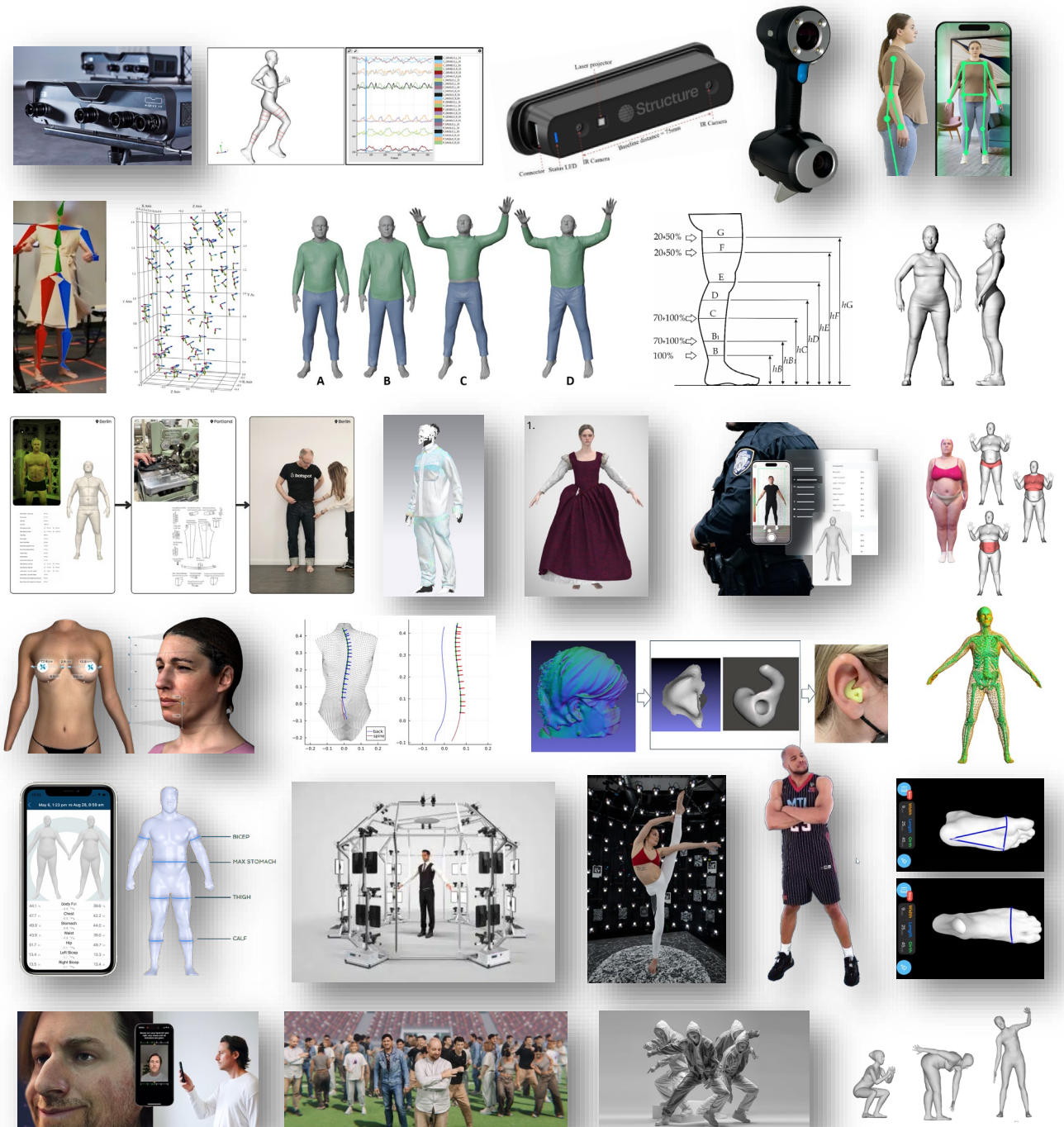
Mobile Apps



VR/AR



3D Printing



Conference Program - Expo

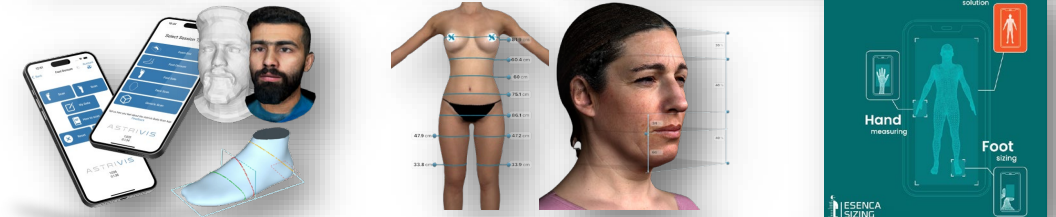
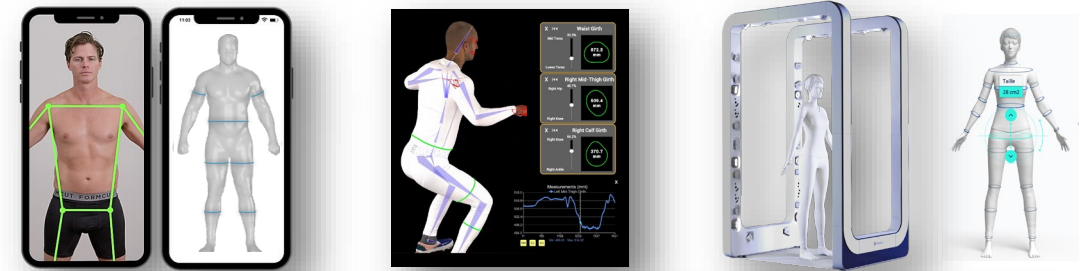
5 GOLD Exhibitors



5 SILVER Exhibitors



6 BRONZE Exhibitors



TRACK 3 - Exhibitors' Live Stream:

11 Live Demonstrations from Exhibitors

Live Stream onto the Event Platform/App

Recordings will be available

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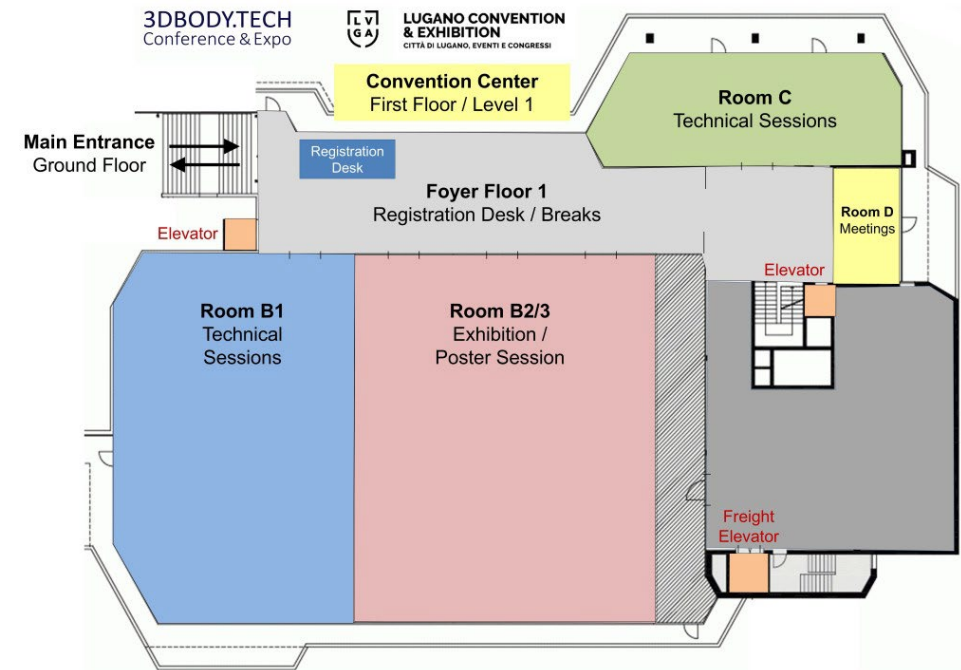
Conference & Expo - Onsite & Online

Onsite

Technical Sessions: Room B1, Room C

Exhibition: Room B2/2

Coffee/Lunch Breaks: Foyer



Onsite + Online

Online Event Platform/App

Both for Onsite and Online Participants

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.



3DBODY.TECH Event Platform/App

Simple & Intuitive

Sessions & Recordings:
Best View - Table
Colors/Format as Program

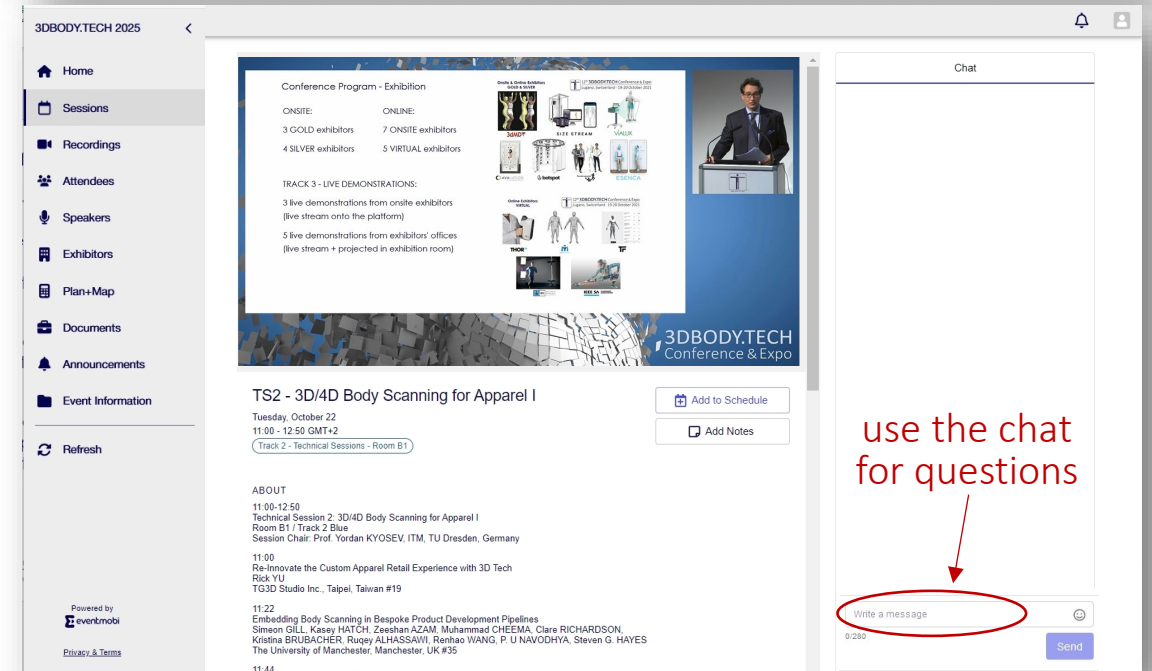
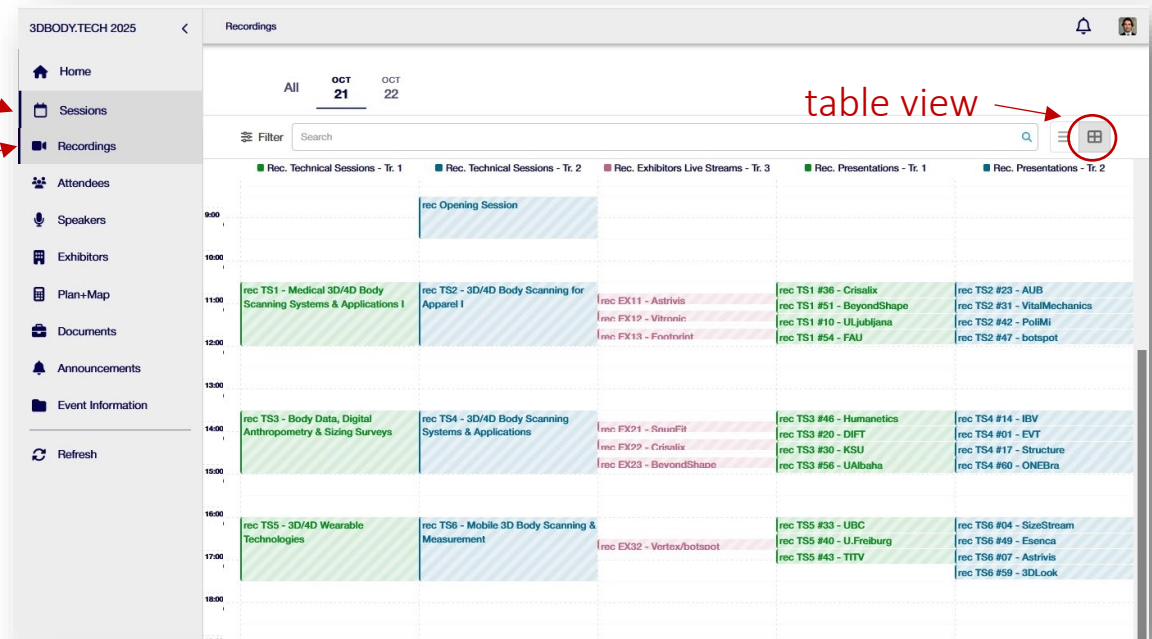
Live Sessions:
Watch the Live Stream
& Interact with Chat

Recordings:
Watch the Recorded Sessions
or the Single Presentations
(Available after 1-2 Hours)

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

live sessions
recorded sessions &
single presentations

table view



3DBODY.TECH Event Platform/App

Networking:

Onsite <-> Onsite
Onsite <-> Online
Online <-> Online

Within the platform:

Sending messages
Schedule meetings
Without providing your email address

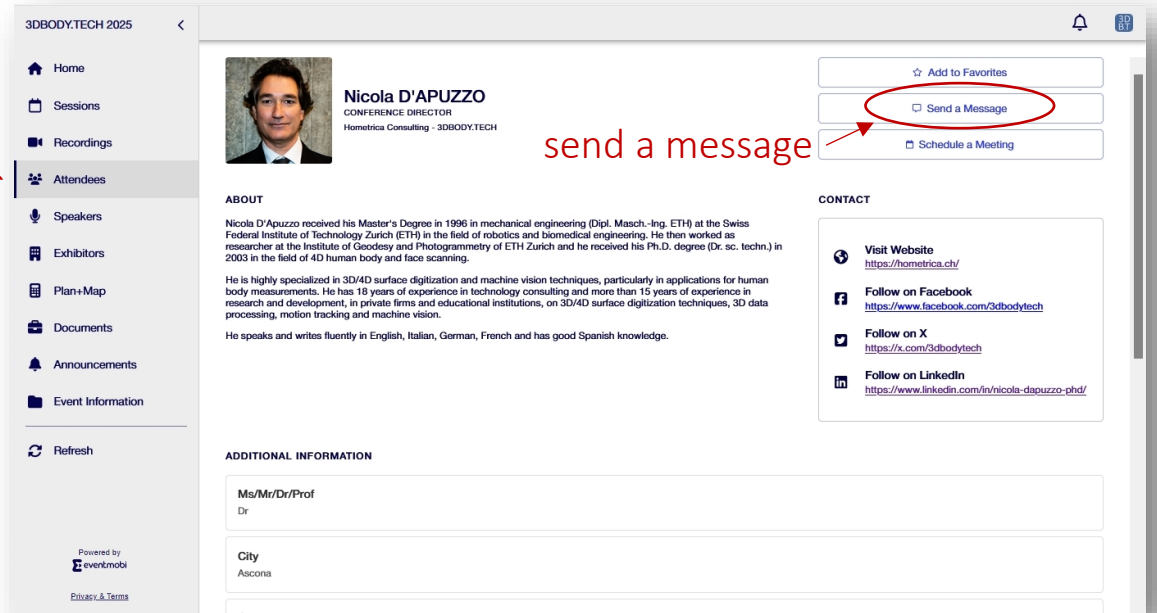
Profile preferences:

Profile visible/hidden
Messaging on/off
Notifications settings

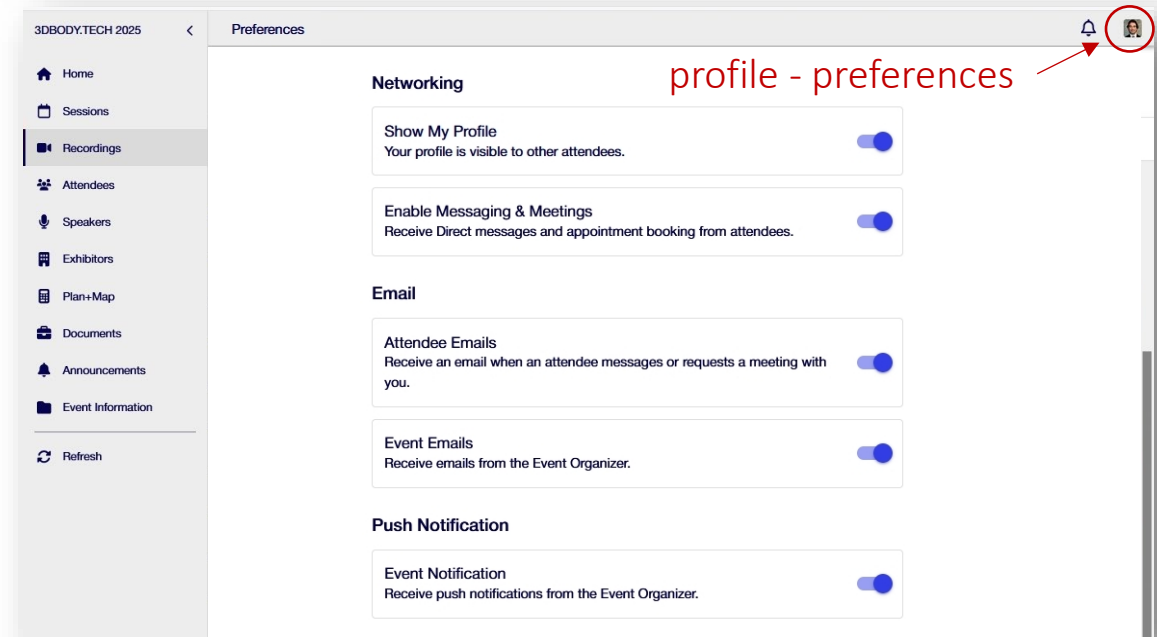
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attendees

send a message



profile - preferences



3DBODY.TECH 2025 Proceedings

E-Proceedings, ISBN, Full Papers DOIs

HTML Structure

Access to Full Papers/Abstracts PDFs

Recordings of Single Presentations & Live Demos

Recordings of Entire Sessions, Including Q&A

Download ZIP in the Event Platform/App

USB Flash Drive at the Registration Desk

3DBODY.TECH Proceedings Website

<https://proc.3dbody.tech>

Free Access to:

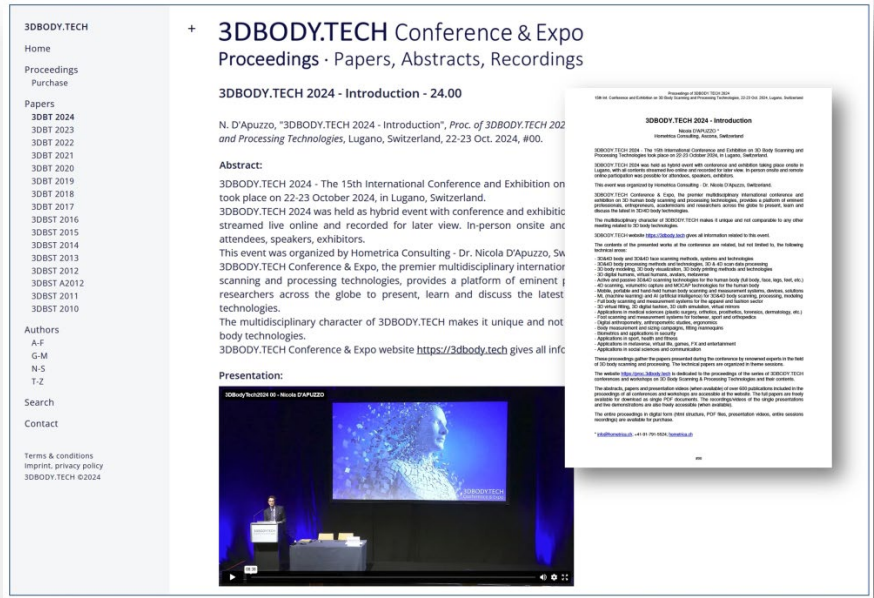
1025 papers/abs./present. pages

805 papers/abstracts as PDF

378 present. videos/recordings -> 450 on Q3.2026

Recordings of 2025 will be available on Q3.2026

Dedicated search tool



3DBODY.TECH 2025 Journal

3DBODY.TECH Journal

International Journal of 3D Body Technologies

ISSN: 3042-576X | DOI: 10.15221/3DBTJ

Open Access | Published: Annually

Full papers presented at 3DBODY.TECH Conference

Option/Selection: to be published as journal papers

Review by at least 2 members tech./scient. committee

3DBODY.TECH Journal Volume 2 - Expected Dec. 2025

Review process: after the conference (not feasible before)

After publication: full papers updated also in proceedings

3DBODY.TECH Journal
International Journal of 3D Body Technologies



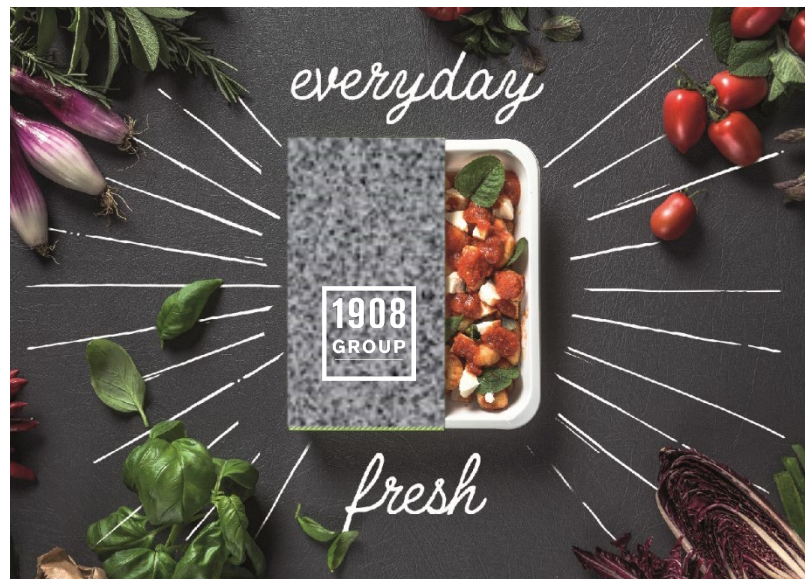
3DBODY.TECH 2025
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Coffee breaks, lunch breaks

Breaks with coffee, refreshments and small bites are offered and will be served in the foyer

Lunches in boxes are also offered and will be distributed during the lunch breaks in the foyer

Coffee & water will be available all day long 9am-6pm



Welcome Cocktail

Welcome cocktail with finger food, soft drinks and local wine (red, white, sparkling)
This evening after the end of technical sessions 5&6, 6:30 pm, served in the foyer

Offered, with the kind support of the City of Lugano



It will help increasing networking opportunities



Thanks

Participants
onsite+online

Speakers

Exhibitors

Chairmen

Committee

Technical Team
Convention Center
A/V Team EventMore

Registration Desk



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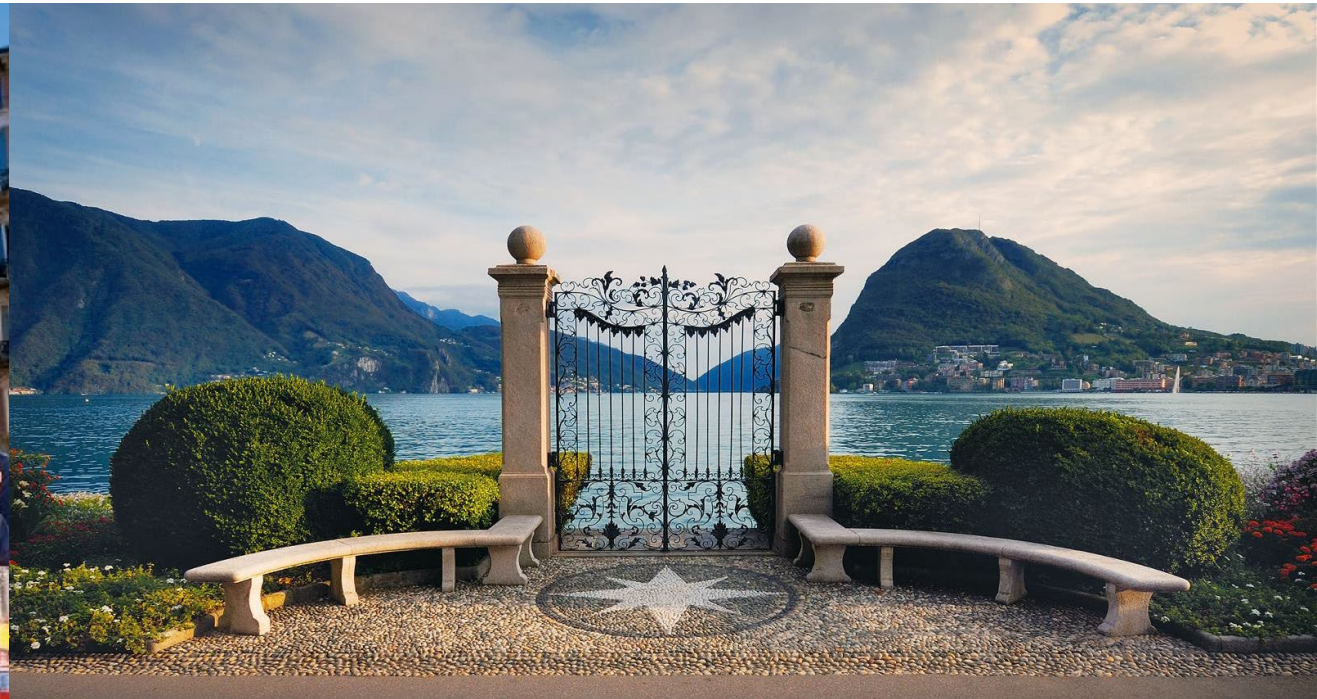
I wish you a great time during
these two very intensive days
at the conference & exhibition



16th 3DBODY.TECH Conference & Expo

Lugano, Switzerland · 21-22 October 2025

I wish you a great time during
these two very intensive days
at the conference & exhibition
and in Lugano (if you are onsite)



Short Presentations from GOLD & SILVER Exhibitors

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-  Richard ALLEN, Sales & Customer Service - **Size Stream**
-  Carmelo LIZARRAGA GIMENEZ, Business Development Manager - **IBV**
-  Jasmin HERR, Director of Marketing & Communication - **VERTEX**
-  Florian KRICKL, Product Manager 3D Bodyscan - **VITRONIC Machine Vision**
-  Dr Petri TANSKANEN, CEO - **Astrivis Technologies**
-  Dr Jaime GARCIA, CEO - **Crisalix**
-  Tim GUENZEL, Global Sales Manager - **Humanetics Digital Europe**
-  Dr Stanislao GRAZIOSO, CEO - **BeyondShape**
-  Dr Eduard COJOCEA, CTO - **Esenca Sizing**



VERTEX





16th 3DBODY.TECH Conference & Expo

Lugano, Switzerland · 21-22 October 2025

Goodbye from Lugano!

Hometrica Consulting
Dr Nicola D'Apuzzo

Closing Speech

3DBODY.TECH 2025

Impressions during these 2 days

Onsite closing - online still open

Conference proceedings

3DBODY.TECH Journal Vol. 2

Announcements for 2026

3DBODY.TECH 2025 - Impressions during these 2 days

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.



3DBODY.TECH 2025 - Impressions during these 2 days

3DBODY.TECH Team.. early start

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.



3DBODY.TECH 2025 - Impressions during these 2 days

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

3DBODY.TECH Team.. early start



3DBODY.TECH 2025 - Impressions during these 2 days

Exhibitors day -1 .. set up

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.



3DBODY.TECH 2025 - Impressions during these 2 days

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

Weather in Lugano this year was not good the first day.. everybody stayed at the venue..



3DBODY.TECH 2025 - Impressions during these 2 days

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

Weather in Lugano this year was not good the first day .. but it was much nicer the 2nd day..



3DBODY.TECH 2025 - Impressions during these 2 days

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

Interesting presentations at the technical sessions

What's New?

- New developments on improved body composition using mobile devices and abilities to get better scans over loose clothes
- MeThreeSixty registered users well over 1 million, making mobile device scanning scale far beyond fixed location scanning equipment
- Size Stream – Formcut in 85 retail locations supporting both Made To Measure as well as stock size recommendation – adding 100 more stores over the next six months
- Size Stream Health Enterprise now active in clinical trials and clinical grade studies using mobile technology

— SIZE STREAM —



3DBODY.TECH 2025 - Impressions during these 2 days

Interesting presentations at the technical sessions

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3DBODY.TECH 2025 - Impressions during these 2 days

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

Interesting presentations at the technical sessions

BodyLoop's World Premier at 3DBody.Tech 2025

A look back at 3DBody.Tech in 2024



Official Launch of BodyLoop at 3DBody.Tech in 2025



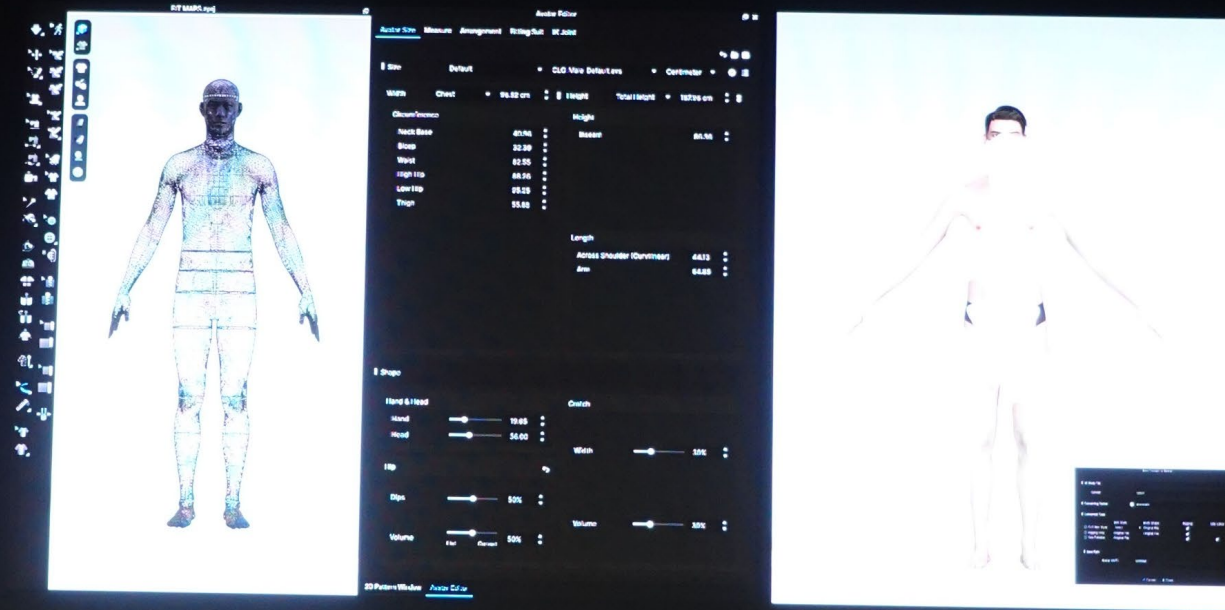
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3DBODY.TECH 2025 - Impressions during these 2 days

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

Interesting presentations at the technical sessions

DIGITAL AVATAR CREATION



ARTS
UNIVERSITY
BOURNEMOUTH

THRUDARK

Software such as CLO 3D include integrated avatar creation tools



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3DBODY.TECH 2025 - Impressions during these 2 days

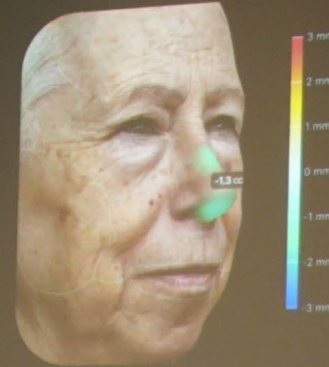
3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

Interesting presentations at the technical sessions

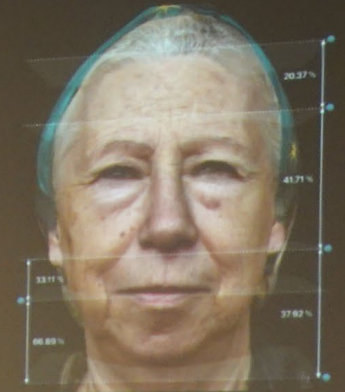
docs.google.com/presentation/d/1YnMf9paDn_Cq8Hi7x1Wj_Heln76WYPnN6ZywOe0EJw/edit?slide=id.g3860f43f3af_8_378#slide=id.g3860f43f3af_8_378



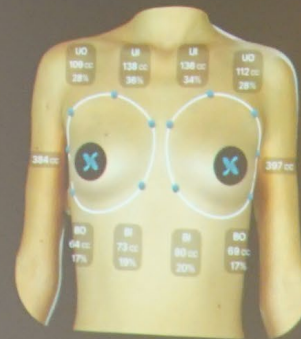
Angles



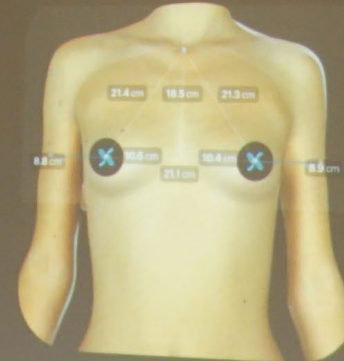
Volume comparison



Proportions



Volumes



Triangle measures



Clothes

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Conference & Expo

21-22 October 2025
Lugano, Switzerland

Interesting presentations at the technical sessions

The Art of the Process

3D Digital → 2D Analog



botspot

How to make the pattern?

1. Pick a pattern out of library (close to what you want)

- 80% coverage initially
- Added smaller waists
- Added wider hips
- Human alterations (<2%)

Gerber AccuMark MTM software allows you to enter the measurement and it will generate a custom pattern from a master pattern base on the measurements => this is for more well established factories

2. Automatically make a pattern from scratch using traditional methods

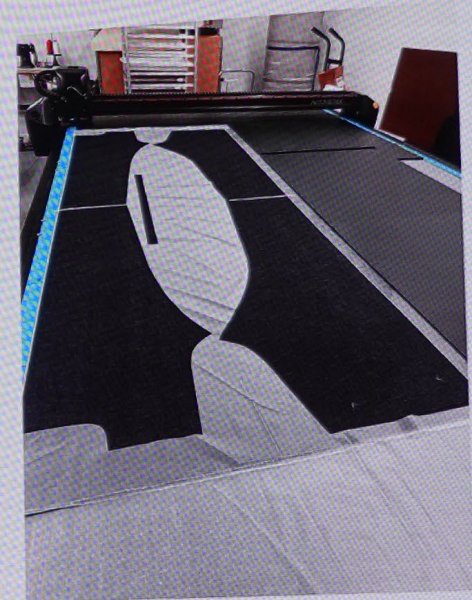
- Uses a very small fraction of the data in a scan
- Works poorly except for ideal bodies
- Doesn't consider posture such as hip tilt after giving birth

3. Expert

- Freehand
- Years of experience
- Hard to scale

4. Capture the expert's process

- Needs data



VERTEX

EPHOTO

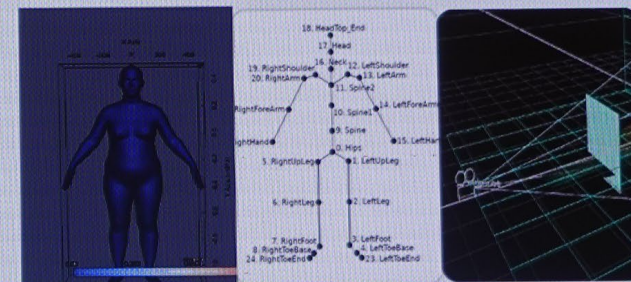
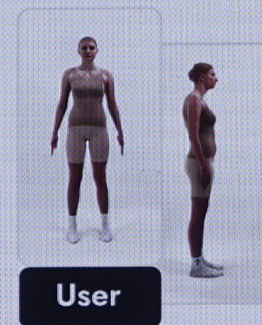


Interesting presentations at the technical sessions

3D Reconstruction Engine

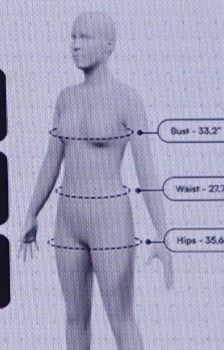
Our Proprietary 3D reconstruction engine produces a highly accurate 3D model of the human body from two photos

- **Landmark detector**
 - Semantic landmarks
 - Silhouette
- **Optimization process**
 - Statistical body model
 - Skeleton
 - Camera
- **Measurements**
 - Linear and circumference
 - Body composition



Accurate 3D Body Models

Body data		Core body measurements	
BMI	26.3	Bust	33,2"
BMF	18.1 Kcal/day	Waist	27,7"
Lean body mass	24 KG	Hips	35,6"
Fat body mass	31 KG		



3DBODY.TECH 2025 - Impressions during these 2 days

3DBODY.TECH 2025

Conference & Expo / 21-22 Oct.

Interesting demonstrations at the technical exhibition



3DBODY.TECH 2025 - Impressions during these 2 days

Interesting demonstrations at the technical exhibition

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3DBODY.TECH 2025 - Impressions during these 2 days

Interesting demonstrations at the technical exhibition

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Conference & Expo 21-22 Oct.



3DBODY.TECH 2025 - Impressions during these 2 days

Interesting demonstrations at the technical exhibition

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Conference & Expo 21-22 Oct.



3DBODY.TECH 2025 - Impressions during these 2 days

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Conference & Expo 21-22 Oct.

Interesting demonstrations at the technical exhibition



3DBODY.TECH 2025 - Impressions during these 2 days

Networking and relaxed moments during breaks

3DBODY.TECH 2025

Conference & Expo 21-22 Oct.



3DBODY.TECH 2025 - Impressions during these 2 days

Networking and relaxed moments during breaks

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3DBODY.TECH 2025 - Impressions during these 2 days

Networking and relaxed moments during breaks

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Conference & Expo 21-22 Oct.



3DBODY.TECH 2025 - Impressions during these 2 days

Professional video: will be available in 4-6 weeks on our website



3DBODY.TECH 2025 - onsite closing - online still open

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

The live program is finished / the online event platform will stay open for 90 days

The messaging & networking system will still be functioning

We will finish to upload all recorded sessions and all single presentations tonight

recorded sessions & single presentations

table view

entire sessions & live demonstrations

single presentations

Also available for purchase from today

<https://proc.3dbody.tech>

Recordings of 2025 will be available on Q3.2026

3DBODY.TECH

+

3DBODY.TECH Conference & Expo

Home

3DBT 2025

Proceedings

Contact

Proceedings · Papers, Abstracts, Recordings

3DBODY.TECH 2025 Proceedings

TECHNICAL SESSION 10: 3D/4D Body Processing, Body Modeling & Avatars

Why Does the Apparel Use Case Need a Different Approach to the Rig/Weight Systems?

3DBODY.TECH 2024 · Paper 24.00

A. M. Schell et al., "Evaluation of Automated Skeleton Fitting to 4D Human Body Scan Data Using Open-Source SPMs", and OSO Models, Proc. of 3DBODY.TECH 2024 - 14th Int. Conf. and Exh. on 3D Body Scanning and Processing Technologies, Lugano, Switzerland, 22-23 Oct. 2024, vol. 1, ISBN:978-3-039-13222-0, pp. 1-6.

Title:

Evaluation of Automated Skeleton Fitting to 4D Human Body Scan Data Using Open-Source SPMs, and OSO Models

Authors:

Ann-Malin SCHMIDT, 1, Ingrid PERAZA, 1, Yordan KROKOVY 1

1 Chair of Development and Assembly of Textile Products, TUM, TU (Dresden), Germany; 2 Ghent University, Belgium

Abstract:

4D scan data captures the body's surface in motion, enabling analysis of body deformation, skin stretching, and clothing fit, but are limited to surface-based information. Previous work used 4D scan data to develop individualized Finite Element (FE) models for digital clothing fitting, but these models lack a bone structure and require labor-intensive manual adjustment or costly CT scans. An automated method for fitting a skeleton to 4D scan data has been tested and evaluated on three subjects in two different poses. This workflow involves converting 4D scan data into SPMs, models, followed by the automatic application of a skeleton using the open-source PyTomoSAR module OSO. The fitting process of the SPMs resulted in decreased high accuracy and repeatability, with mesh differences of less than 5 mm for static. A priori configurations. Although the SPMs model simplified body surface details, resulting in a slightly slimmer appearance, it successfully supports accurate skeleton fitting to the original 4D scan data. In dynamic poses from 4D scans, inaccuracies and less repeatability were observed for the SPMs fitting. The 4D scan data method efficiently placed bone poses across all fitted poses with only minor generations noted in areas such as the fingers, legs, and the hips. Integrating the OSO skeleton with the 4D scan data produced a model that effectively combined accurate body surface representation with a skeletal structure. Nonetheless, pose discrepancies between the model and the 4D scan data resulted in some intersections for the skeleton mesh, which could lead to errors in Finite Element (FE) models. Minor adjustments, such as rotating joints, improved the fit of the skeleton. Overall, while the method shows promise, further refinements in SPMs, model fitting process, especially for complete poses, are needed to enhance its potential for improving the precision of individualized FE models.

Keywords:

4D scanning, SPMs, OSO, Skeleton fitting

Details/PDF/VIDEO:

Full paper: PDF

Proceedings: OSO

Proceedings: 3DBODY.TECH2024, 22-23 Oct. 2024, Lugano, Switzerland

Paper ref.: DOI: 10.33228/3DBT.2024.001

DOI: 10.33228/3DBT.2024.001

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4D scanning, SPMs, OSO, Skeleton fitting

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Proceedings: OSO

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DOI: 10.33228/3DBT.2024.001

Abstract

4D scan data captures the body's surface in motion, enabling analysis of body deformation, skin stretching, and clothing fit, but are limited to surface-based information. Previous work used 4D scan data to develop individualized Finite Element (FE) models for digital clothing fitting, but these models lack a bone structure and require labor-intensive manual adjustment or costly CT scans. An automated method for fitting a skeleton to 4D scan data has been tested and evaluated on three subjects in two different poses. This workflow involves converting 4D scan data into SPMs, models, followed by the automatic application of a skeleton using the open-source PyTomoSAR module OSO. The fitting process of the SPMs resulted in decreased high accuracy and repeatability, with mesh differences of less than 5 mm for static. A priori configurations. Although the SPMs model simplified body surface details, resulting in a slightly slimmer appearance, it successfully supports accurate skeleton fitting to the original 4D scan data. In dynamic poses from 4D scans, inaccuracies and less repeatability were observed for the SPMs fitting. The 4D scan data method efficiently placed bone poses across all fitted poses with only minor generations noted in areas such as the fingers, legs, and the hips. Integrating the OSO skeleton with the 4D scan data produced a model that effectively combined accurate body surface representation with a skeletal structure. Nonetheless, pose discrepancies between the model and the 4D scan data resulted in some intersections for the skeleton mesh, which could lead to errors in Finite Element (FE) models. Minor adjustments, such as rotating joints, improved the fit of the skeleton. Overall, while the method shows promise, further refinements in SPMs, model fitting process, especially for complete poses, are needed to enhance its potential for improving the precision of individualized FE models.

Keywords:

4D scanning, SPMs, OSO, Skeleton fitting

Details/PDF/VIDEO:

Full paper: PDF

Proceedings: OSO

Proceedings: 3DBODY.TECH2024, 22-23 Oct. 2024, Lugano, Switzerland

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N. D'Apuzzo, "3DBODY.TECH 2024 - Introduction", *Proc. of 3DBODY.TECH 2024 and Processing Technologies, Lugano, Switzerland*, 22-23 Oct. 2024, 400.

Abstract:

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3DBODY.TECH 2024 was held as hybrid event with conference and exhibitive streamed live online and recorded for later view. In-person onsite and attendees, speakers, exhibitors.

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3DBODY.TECH Conference & Expo website <https://3dbody.tech> gives all info

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3DBODY.TECH 2024 - Introduction

Hometrica Consulting, Lugano, Switzerland

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3DBODY.TECH 2025 Journal

3DBODY.TECH Journal

International Journal of 3D Body Technologies

ISSN: 3042-576X | DOI: 10.15221/3DBTJ

Open Access | Published: Annually

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Option/Selection: to be published as journal papers

Review by at least 2 members tech./scient. committee

3DBODY.TECH Journal Volume 2 - Expected Dec. 2025

Authors can still apply to have their full paper
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3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

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3DBODY.TECH 2026

Conference & Expo 20-21 Oct.

3DBODY.TECH Conference & Expo

17th International Conference & Expo on 3D/4D Body Technologies

Lugano, Switzerland, 20-21 October 2026

in-person event: all presentations onsite (online only for exceptional cases)

attendees: onsite + online

Goals/expectations for 2026:

200 onsite + 50 online participants

80 presentations

25 exhibitors

3DBODY.TECH 2025
Conference & Expo 21-22 Oct.

Goodbye from Lugano



3DBODY.TECH 2026
Conference & Expo 20-21 Oct.



See you again next year in Lugano

16th 3DBODY.TECH Conference & Expo

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