



# 13<sup>th</sup> 3DBODY.TECH Conference & Expo

## Lugano, Switzerland · 25-26 October 2022

### Program Outline

3DBODY.TECH 2022 ONSITE + ONLINE, Lugano, Switzerland, 25-26 October 2022, <a href="http://www.3dbody.tech">www.3dbody.tech</a> 13th International Conference and Exhibition on 3D Body Scanning and Processing Technologies CEST (Central European Summer Time) UTC+2 - Time Zone Rome/Paris/Berlin/Madrid				
Time	Tuesday 25 October 2022		Wednesday 26 October 2022	
08:00	Registration		Registration	
09:00	Opening Session		Exhibition Setup	Exhibition Setup
10:00				
11:00	Technical Session 1 3D/4D Body Scanning & Processing	Technical Session 2 3D/4D Body Scanning Systems & Uses I	Exhibition Onsite + Online	Ons. Exhibitors Live Stream 4
12:00	Coffee Break			
13:00	Lunch Break		Onsite Exhibitors Live Stream 1	Onsite Exhibitors Live Stream 5
14:00	Lunch Break			
15:00	Technical Session 3 3D/4D Body Scanning Systems & Uses II	Technical Session 4 3D/4D Body Scanning for Apparel I	Onsite Exhibitors Live Stream 2	Rem. Exhibitors Live Stream
16:00	Coffee Break			
17:00	Technical Session 5 3D/4D Body Processing	Technical Session 6 3D/4D Body Scanning Systems & Uses III	Onsite Exhibitors Live Stream 3	Onsite Exhibitors Live Stream 6
18:00	Coffee Break			
19:00	Welcome Cocktail		Registration	
			Technical Session 7 3D Body Scanning for Medical Applications	
			Technical Session 8 3D/4D Body Scanning for Apparel II	
			Technical Session 9 3D Foot Scanning	
			Technical Session 10 Metaverse & Avatars	
			Lunch Break	
			Technical Session 11 Digital Anthropometry & Ergonomics	
			Technical Session 12 3D/4D Body Scanning for Apparel III	
			Coffee Break	
			Panel Discussion 3D/4D Body Scanning & Processing Quo Vadis?	
			Technical Session 13 Anthropometric & Sizing Surveys	
			Closing Session	
			Onsite Exhibition Breakdown	

### Conference Office

Conference office: HOMETRICA CONSULTING - Dr. Nicola D'Apuzzo  
 Contrada Maggiore 2, CH-6612 Ascona, Switzerland  
 Conference website: [www.3dbody.tech](http://www.3dbody.tech) [info@3dbody.tech](mailto:info@3dbody.tech)  
 Conference phones: +41.91.791.5524

# 3DBODY.TECH 2022 - PROGRAM

13<sup>th</sup> 3DBODY.TECH Conference & Expo · Lugano, Switzerland · 25-26 October 2022 · [www.3dbody.tech](http://www.3dbody.tech)

Tuesday 25 October 2022 - CEST (Central European Summer Time) UTC+2 - TimeZone Zurich/Rome/Paris/Berlin/Madrid

08:00-09:30 **Registration** – Welcome Desk / **Pre-conference 1-on-1 Networking**

09:30-10:40 **Opening Session** – Room B1 / Track 2 Blue

09:30 Welcome Speech from the Conference Director  
Nicola D'APUZZO, Hometrica Consulting, Switzerland

09:50 World Premieres, Product Launches and Announcements from GOLD & SILVER Exhibitors  
Size Stream (USA), IBV (Spain), tOOiin (France), 3dMD (USA), ZOZO (Japan), VyoO (Canada),  
Prism Labs (USA/Austria), botspot (Germany), Revopoint (USA/China), ImFusion (Germany),  
Made To Form (Switzerland), ESENCA (UK), IEEE-SA (USA), TechMed 3D (Canada)



10:40-11:10 **Coffee Break** – Foyer / **1-on-1 Networking**

11:10-13:00 **Technical Session 1: 3D/4D Body Scanning & Processing** – Room C / Track 1 Green

Session Chair: Dr Mikoláš JURDA - Assistant Professor at Dept. of Anthropology of Masaryk University, Brno, Czech Republic

11:10 3D Scanning Technologies for Human Face Expression Recognition: A Comparison Framework

Luca ULRICH, Sandro MOOS, Federica MARCOLIN, Enrico VEZZETTI  
Department of Management and Production Engineering, Politecnico di Torino, Turin, Italy #71 *virtual/online*



11:32 Personalized Fitting of Respiratory Mask Using 3D Numerical Simulation and Finite Element Analysis

Hugo TAECKENS 1, Arthur AGOSTINI 1, Loïc DEGUELDRE 2, Bahe HACHEM 2,  
Sean-Philippe VIENS 3, Aude CASTONGUAY-HENRI 3, Jonathan BORDUAS 3, Luc DUONG  
1 École de Technologie Supérieure, Montréal QC, Canada;  
2 Numalogics, Montréal QC, Canada; 3 ShapeShift 3D, Montréal QC, Canada #48



11:54 Opportunities and Current Obstacles to Use MOVE4D for Cycling Analysis

Alexander VAN GASTEL, Stijn VERWULGEN  
University of Antwerp, Antwerp, Belgium #42 *virtual/online*



12:16 OrienNormNet: Orientation Normalization of 3D Body Models

Ran ZHAO, Xinxin DAI, Pengpeng HU, Adrian MUNTEANU  
Vrije Universiteit Brussel, Belgium #36



12:38 Adaptive Body Circumference Measurement Technique using Ellipse Formula

Mohammad MONTAZERIAN, Frederic FOL LEYMARIE  
Goldsmiths, University of London, Computing Dept., London, UK #12 *virtual/online*

11:10-13:00 **Technical Session 2: 3D/4D Body Scanning Systems & Uses I** – Room B1 / Track 2 Blue

Session Chair: Evridiki PAPACHRISTOU - Ass. Professor at Creative Design & Clothing Dept. of IHU International Hellenic University, Greece

11:10 Yes, We Scan

Beatriz MAÑAS BALLESTER  
IBV Instituto de Biomecánica de Valencia, Universitat Politècnica de València, Spain #53



11:32 Commercial and Research Revolutions Enabled by 3D Body Scanning

David BRUNER, Richard ALLEN  
Size Stream LLC, Cary NC, USA #01 *online+onsite*



11:54 Size Recommendations and their Opportunities for the Workwear Sector

Minou LASHGARI, Ulrike GRUEN  
Avalution GmbH, Kaiserslautern, Germany #08 *GOLD*



12:16 3D Body Scanning - Fashion and Beyond

Takayasu YAMADA  
ZOZO Inc., Chiba, Japan #67 *GOLD*



12:38 Efficient 4D Enrollment Workflow of Human Performance Producing

Medical-Grade Data Models to Train, Wear, and Populate the Metaverse  
Chris LANE, Daniel LAYFIELD  
3dMD LLC, Atlanta GA, USA #28 *virtual/online*



11:30-12:45 **Onsite Exhibitors Live Stream 1** – Track 3 Rose

11:30-12:00 Live Demonstration & Presentation from the Exhibition Room - ESENCA (UK)



12:15-12:45 Live Demonstration & Presentation from the Exhibition Room - NeXR Technologies (Germany)



13:00-14:30 **Lunch Break** – Foyer / **1-on-1 Networking**

**14:30-16:20 Technical Session 3: 3D/4D Body Scanning Systems & Uses II – Room C / Track 1 Green**


Session Chair: Dr Yannick FRANCKEN - Head of R&amp;D Europe at Bodidata Inc., USA/Belgium


14:30 Reconstruction of Non-Rigid Subjects Using a Single Camera


 Stephen RAYMOND  
 Prism Labs Inc., Santa Monica CA, USA / Vienna, Austria #68

 14:52 3D Body Scanning with RecFusion  
 Alexander LADIKOS  
 ImFusion GmbH, Munich, Germany #64


 15:14 Revopoint High Precision 3D Scanners and Applications  
 Vivian LI  
 Revopoint International Limited, USA / China #40


 15:38 Low Cost Scanner and Scannerless Acquisition in 2022: What's Up and What's Next!  

 Michel BABIN  
 TechMed 3D, Lévis QC, Canada #70


 15:58 Mantis Vision Volumetric Capture Studios and Use Cases  

 Rob CHRISTENSEN  
 Mantis Vision USA, Rapid City SD, USA #74
**14:30-16:20 Technical Session 4: 3D/4D Body Scanning for Apparel I – Room B1 / Track 2 Blue**


Session Chair: Sandra ALEMANY - Lead Reseacher at IBV, Universitat Politècnica de València, Spain


14:30 Development of Clothing-Related Assistance Systems to Support the Mobility


 Ellen WENDT, Doudou ZHANG, Sybille KRZYWINSKI, Yordan KYOSEV  
 TU Dresden, Institute of Textile Machinery and High Performance Material Technology, Germany #09

 14:52 Testing a Smartphone Application for the Optimisation of Organisational Outfitting Procedures for Protective Clothing  

 Dominik OEHLISCHLÄGER 1, Marina WEIßE 2, Cindy BAGGE 2, Carsten ZIMMERMANN 2,  
 Andreas H. GLAS 1, Jens HOLTMANNSPÖTTER 2, Michael EßIG 1  
 1 Bundeswehr University Munich, Neubiberg, Germany;  
 2 Bundeswehr Research Institute for Materials, Fuels and Lubricants, Erding, Germany #07

 15:14 ~~Comparative Analysis of 4D Scanning and Mobile Dynaback Sensors for Ambulatory Monitoring at the Spines~~  

 Yordan KYOSEV 1, Jana SIEGMUND 1, Felix KUNZELMANN 1, Ivaylo VATOVSKI 2, Sabri I. **CANCELED**  
 1 TU Dresden, ITM, Chair of Development and Assembly of Textile Products, Dresden, Germany; 2 Madesign Ltd, Sofia, Bulgaria #22

 15:38 Method for Evaluation of the Motion Comfort of the Clothing for Deaf People Using of High Speed (4D) Scanning  

 Nataliya SADRETDINOVA 1,2, Yordan KYOSEV 2  
 1 Kyiv State University of Technologies and Design, Kiev, Ukraine;  
 2 TU Dresden, Institute of Textile Machinery and High Performance Material Technology, Dresden, Germany #60 *virtual/online*

 15:58 Evaluating Fit by Using Animated Body Scan Avatars and Digital Coveralls  

 Fatma BAYTAR, Mona MAHER, Aditi GALADA  
 Department of Human Centered Design, Cornell University, Ithaca NY, USA #51 *virtual/online*
**14:45-16:00 Onsite Exhibitors Live Stream 2 – Track 3 Rose**

14:45-15:15 Live Demonstration &amp; Presentation from the Exhibition Room - Avalution (Germany)



15:30-16:00 Live Demonstration &amp; Presentation from the Exhibition Room - Made To Form (Switzerland)

**16:20-17:00 Coffee Break – Foyer / 1-on-1 Networking****17:00-18:50 Technical Session 5: 3D/4D Body Processing – Room C / Track 1 Green**

Session Chair: Rudi SCHUBERT - Director New Initiatives at IEEE-SA, Piscataway NJ, USA

17:00 Introducing the 5 Definitions, Human, Humanoid, Cover, Coveroid, Transformation

 Carol MCDONALD  
 Gneiss Concept, Washougal, WA, USA #46

 17:05 Relationships Between Rigs and Humanoid and Coveroid Landmarks  

 William GLASCOE 1, Katy SCHILDMEYER 2, Emma SCOTT 3, Simeon GILL 4, Alfredo BALLESTER 5, Carol MCDONALD 6  
 1 Web3D Consortium, Burtonsville, MD, USA; 2 3 KS Apparel Design & Consulting, Salt Lake City, UT, USA;  
 3 Fashion Should Empower Research Group, Victoria, BC, Canada; 4 The University of Manchester, Manchester, England, UK;  
 5 Instituto de Biomecánica de Valencia, Universitat Politècnica de València, Spain; 6 Gneiss Concept, Washougal, WA, USA #30


 17:26 Apparel Fit Language Suited to 3D Body Processing Ecosystems  
 Emma SCOTT 1, Simeon GILL 2, Susan ASHDOWN 3, Gerald RUDERMAN 4  
 1 Fashion Should Empower, Victoria BC, Canada; 2 Dept. of Materials, The University of Manchester, Manchester, UK;  
 3 Cornell University, Ithaca NY, USA; 4 Zdoit, Brooklin NY, USA #41

17:47 Characterizing Apparel &amp; Fit for Virtual and Physical Worlds with Logic Statements

 Carol MCDONALD 1, Jayamali DE SILVA 2  
 1 Gneiss Concept, Washougal, WA, USA; 2 Department of Textile and Apparel Engineering, University of Moratuwa, Sri Lanka #14

 18:08 Fit Validation and Assessment Through Block Comparison  
 Emma SCOTT  
 Fashion Should Empower Research Group, Vancouver Island, BC, Canada #19

18:29 Method for Automatic Analysis of the Clothing Related Body Dimension


 Changes During Motion Using High-Speed (4D) Body Scanning  
 Yordan KYOSEV, Vanda TOMANOVA, Ann-Malin SCHMIDT  
 TU Dresden, ITM, Chair of Development and Assembly of Textile Products, Dresden, Germany #24

## 17:00-19:00 Technical Session 6: 3D/4D Body Scanning Systems & Uses III – Room B1 / Track 2 Blue

Session Chair: Tim GUENZEL - Senior Consultant Body Scanning at Human Solutions of North America, Morrisville NC, USA

17:00 The Advantage of Deploying Precision Medical-Grade 4D Data to Efficiently Achieve Quality Results in the Downstream Metaverse AI/CV/ML Training Pipeline



Chris LANE, Andrew AUBREY  
3dMD LLC, Atlanta GA, USA #29



virtual/online

17:21 How to use Human Digital Twins as a Part of a Personal Digital Identity for Web 2 and Web 3?



Mathieu PERCIE DU SERT, Guillaume COURSIIN  
tOOiin, Sèvres, France #55



17:42 Systematic Millimeter Accuracy through Advanced Lighting and Scanning for Custom Tailoring

Andreea DICAN, Ken VARNER  
botspot AG, Berlin, Germany #58



18:03 The Future of Fashion with Less Return Waste and Perfect Size Recommendations and Virtual Fitting



Thomas RICHTER, Florian KETTE  
NeXR Technologies SE, Berlin, Germany #59



18:24 3D Automatic Measures from a Simple "Smart" Video



Laurent JUPPÉ  
VyoO, Montreal QC, Canada #69



18:45 Fast and Robust Body Measurements Extraction Used in Virtual Try-On Exploration



Eduard COJOCEA  
ESENCA Ltd., London, UK #73



## 17:10-18:50 Onsite Exhibitors Live Stream 3 – Track 3 Rose

17:10-17:40 Live Demonstration & Presentation from the Exhibition Room - TechMed 3D (Canada)



17:50-18:20 Live Demonstration & Presentation from the Exhibition Room - Prism Labs (USA)



18:30-18:50 Live Demonstration & Presentation from the Exhibition Room - Size Stream (USA)



## 19:00-21:00 Welcome Cocktail / 1-on-1 Networking

## Wednesday 26 October 2022 - CEST - UTC+2 - Time Zone Zurich/Rome/Paris/Berlin/Madrid

## 08:00-08:50 Registration – Welcome Desk / 1-on-1 Networking

## 08:50-10:20 Technical Session 7: 3D Body Scanning for Medical Applications – Room C / Track 1 Green

Session Chair: Dr Martin ČUTA - Assistant Professor at Dept. of Anthropology of Masaryk University, Brno, Czech Republic

08:50 Digitization in the Orthopedic & Prosthetic Industry: From 3D-Scan to Orthopedic Aid



Sonja BENNIS, Max THALMEIER, Khoi LAM, Bianca WEBER  
Mecuris GmbH, Munich, Germany #05

09:12 Feedback Mechanisms of an iOS App to Record RGBD Data for



AI-Based Diagnosis and Monitoring of Infant Head Deformation

Fabian RAPP 1, Samuel ZEITVOGEL 3, Christian MEDER 1, Kai STOEVE SANDT 2, Christian WERNET 3, Astrid LAUBENHEIMER 3  
1 inovex GmbH, Karlsruhe, Germany; 2 VARILAG GmbH & Co. KG, Ettlingen, Germany;  
3 Intelligent Systems Research Group (ISRG), Karlsruhe University of Applied Sciences, Karlsruhe, Germany #39

09:34 Comparison of Optical Handheld 3D Scanners Suitable for Prosthetic and Orthotic Applications

Branko ŠTEFANOVIČ, Bibiána ONDREJOVÁ, Lucia BEDNARČIKOVÁ, Teodor TÓTH, Jozef ŽIVČÁK  
Technical University of Košice, Dept. of Biomedical Engineering and Measurement, Košice, Slovakia #06

virtual/online

## 08:50-10:20 Technical Session 8: 3D/4D Body Scanning for Apparel II – Room B1 / Track 2 Blue

Session Chair: Gerald RUDERMAN - Chief Designer at Zdoit, Brooklyn NY, USA

08:50 Custom-Fitted Apparel at Scale: Challenges & Solutions

Taime KOE  
Six Atomic, Singapore #32



09:12 Innovative Breakthrough with Bespoke 4D: How to Directly Create 3D/4D Garment



Alexandre KUNG  
Made To Form (MTF), Geneva, Switzerland #61



09:34 A Pilot Study Using a Remote, AI-Powered Measurement Technology to Enable a Decentralised Production System, from Ideation to Delivery



Colette JOHNSON 1, Francesca DONADONI 1, Thakane BAZILL 2  
1 The PS Collective Inc., Brooklyn, NY, USA; 2 TAKAII U.G., Cologne, Germany #20

09:56 Virtual Fit Platforms in Fashion E-Commerce

Michela ORNATI 1,2, Anna PICCO-SCHWENDENER 1, Suzanna MARAZZA 1  
1 Univ. della Svizzera italiana, Lugano, Switzerland; 2 Univ. of Applied Sciences and Arts of S. Switzerland, Lugano, Switzerland #34

## 09:30-10:00 Onsite Exhibitors Live Stream 4 – Track 3 Rose

09:30-10:00 Live Demonstration & Presentation from the Exhibition Room - VyoO (Canada)



10:20-11:00 **Coffee Break - Foyer / 1-on-1 Networking**

11:00-12:30 **Technical Session 9: 3D Foot Scanning – Room C / Track 1 Green**

Session Chair: Dr Manoj TIWARI - Associate Professor at National Institute of Fashion Technology, Jodhpur, India

11:00 **Deep Learning Assisted Product Grouping for Shoe Size Recommendation**  
Eugene BULOG 1, Calli BATES 1, Naomi NORTH 2, Tsuyoshi IETA 2, Bo LI 1  
1 ZOZO New Zealand Ltd., Auckland, New Zealand; 2 ZOZO Inc., Tokyo, Japan #63



11:22 **Improving 3D Registration Results of Foot Models Dramatically with a Machine Learning Enhanced Geometric Feature Extraction**  
Tobias PFROMMER  
ShoeFitter GmbH, Konstanz, Germany #43

11:44 **Automatic Foot Measurement Extraction from a 3D Point Cloud via a Deep Neural Network**  
Nastaran NOURBAKHSI KAASHKI, Xinxin DAI, Pengpeng HU, Adrian MUNTEANU  
Department of Electronics and Informatics, Vrije Universiteit Brussel, Brussels, Belgium #47

12:06 **Analysis of Hallux Valgus Angles Using 3D Foot Scans**  
Ales JURCA 1,2, Yang JIAO 1, Sašo DŽEROSKI 3,2  
1 Volumental AB, Stockholm, Sweden; 2 Jozef Stefan International Postgraduate School, Ljubljana, Slovenia;  
3 Jozef Stefan Institute, Ljubljana, Slovenia #56

11:00-12:30 **Technical Session 10: Metaverse & Avatars – Room B1 / Track 2 Blue**

Session Chair: Andrew CRAWFORD - Managing Director at Sizemic Ltd, London, UK

11:00 **The Key to an Open, Functional, and Interoperable Metaverse**  
Anita HAVELE 1, Nicholas POLYS 2, William BENMAN 3  
1 Web3D Consortium, USA; 2 Virginia Tech, USA; 3 Integrated Virtual Network, USA #27

11:22 **Analyzing the Gap between Physical and Digital Fashion**  
Arzu VURUSKAN, Ece SAHIN  
Izmir University of Economics, Department of Textile and Fashion Design, Izmir, Turkey #54

11:44 **Optitex Avatar Framework Enables Modelling Agencies and Mannequin Providers to License Digital Replicas of Their Models for Fashion Brands and Manufacturers**  
Maria LANDO  
Optitex, Rosh HaAyin, Israel #65

12:06 **Meshcapade's Avatar as a Service Platform**  
Naureen MAHMOOD  
Meshcapade GmbH, Tuebingen, Germany #66



online+onsite

11:10-12:20 **Onsite Exhibitors Live Stream 5 – Track 3 Rose**

11:10-11:40 **Live Demonstration & Presentation from the Exhibition Room - Revopoint (China/USA)**



11:50-12:20 **Live Demonstration & Presentation from the Exhibition Room - ZOZO (Japan)**



12:30-13:50 **Lunch Break - Foyer / 1-on-1 Networking**

13:00-13:30 **Remote Exhibitors Live Stream – Track 3 Rose**

13:00-13:30 **Live Demonstration & Presentation from Exhibitors' HQs/Offices - IBV (Spain)**



13:50-15:40 **Technical Session 11: Digital Anthropometry & Ergonomics – Room C / Track 1 Green**

Session Chair: Dr Erik BROLIN - Senior Lecturer in Product Design Engineering at University of Skövde, Mölnlycke, Sweden

13:50 **Moving 1-1 Custom Fit to Everyday Consumers at Normal Prices. How THEMAGIC5 Did That.**  
Bo HAABER  
THEMAGIC5 Inc., Charlotte NC, USA #72

14:12 **Population-Wide Facial 3D Database-Based Validation and Modification of a Filtering Half-Mask 3D Design**  
Mikoláš JURDA, Martin ČUTA  
Department of Anthropology, Faculty of Science, Masaryk University, Brno, Czech Republic #10

14:34 **Reliability and Accuracy of Mobile 3D Scanning Technologies for the Customization of Respiratory Face Masks**  
Arthur AGOSTINI 1,2, Aude CASTONGUAY-HENRI 1, Sean-Philippe VIENS 1, Jonathan BORDUAS 1, Luc DUONG 2  
1 Technologies Shapeshift 3D Inc., Montréal QC, Canada; 2 École de Technologie Supérieure, Montréal QC, Canada #44


14:56 **Comparing Univariate and Multivariate Analysis of Anthropometric Measurements from 3D Body Scans for Ergonomic Work System Designs**  
Alexander ACKERMANN, Sascha WISCHNIEWSKI  
Federal Institute for Occupational Safety and Health (BAuA), Dortmund, Germany #13

15:18 **Robust Body Shape Correspondence with Anthropometric Landmarks**  
Yibo JIAO 1, Chang SHU 2, Dinesh K. PAI 1  
1 University of British Columbia, Vancouver, BC, Canada;  
2 National Research Council Canada, Ottawa, ON, Canada #17


virtual/online



## 13:50-15:40 Technical Session 12: 3D/4D Body Scanning for Apparel III – Room B1 / Track 2 Blue

Session Chair: Prof Dr Yordan KYOSEV - Head of the Chair of Development & Assembly of Textile Prod. at ITM, TU Dresden, Germany

13:50 Evaluation of 3D Body Scans from Mobile App via Virtual & Physical Try-On Garments  
 Evridiki PAPACHRISTOU 1, Despoina KALAIANTZI 2, Nikolaos BILALIS 2  
1 Creative Design & Clothing, International Hellenic University, Thessaloniki, Greece;  
2 School of Production Engineering & Management, Technical University of Crete, Chania, Greece #37



14:12 Comparative Assessment of Validation and Reliability of Sizestream 3D Scanner for Human Body Measurement Using Two Different Approaches  
Manoj TIWARI 1, Noopur ANAND 1,2  
1 Department of Fashion Technology, National Institute of Fashion Technology, Jodhpur, India;  
2 Department of Fashion Technology, National Institute of Fashion Technology, New Delhi, India #52



14:34 Comparison of 3D Body Scanning Mobile Applications:  
A Study of MeThreeSixty and 3D Look Mobile Apps Body Measurements  
 Sadia IDREES, Gianpaolo VIGNALI, Simeon GILL  
The University of Manchester, Manchester, UK #33

14:56 Measuring the Human Body from a Single Camera, with Applications to the Clothing and Fashion Industry  
  Mohammad MONTAZERIAN, Frederic FOL LEYMARIE  
Goldsmiths, University of London, Computing Dept., London, UK #11 *virtual/online*

15:18 BodiData's Measure.Match.Manage.™ Size-Matching Solution  
Tuoc LUONG  
Bodidata Inc., St. Petersburg, FL, USA #35 *virtual/online*

## 14:00-15:15 Onsite Exhibitors Live Stream 6 – Track 3 Rose

14:00-14:30 Live Demonstration & Presentation from the Exhibition Room - tOOiin myeggO (France)  

14:45-15:15 Live Demonstration & Presentation from the Exhibition Room - IBV (Spain)  

## 15:40-16:10 Coffee Break - Foyer / 1-on-1 Networking

## 16:10-16:50 Panel Discussion – Room B1 / Track 2 Blue


Moderator: Dr Nicola D'APUZZO - 3DBODY.TECH Conference Director & Principal at Hometrica Consulting, Ascona, Switzerland

16:10 3D/4D Body Scanning & Processing - Quo Vadis?  
Chris LANE - Co-Founder, CEO and CTO of 3dMD LLC, USA  
Dr Laurent JUPPÉ - Co-Founder and CTO of VyoO, Canada  
Stephen RAYMOND - CEO of Prism Labs Inc., USA  
Maria LANDO - Director of Business Development at Optitex, Israel  
Anita HAVELE - Executive Director of Web3D Consortium, USA

## 16:50-17:00 Short Break - Foyer / 1-on-1 Networking

## 17:00-17:44 Technical Session 13: Anthropometric & Sizing Surveys – Room B1 / Track 2 Blue

Session Chair: Prof Dr Sybille KRZYWINSKI - Adj. Prof. at Develop. & Assembly of Textile Prod. at ITM, TU Dresden, Germany

17:00 Customer Specific Size Surveys – Solutions and Experience  
Matthew BENNETT   
Human Solutions of North America Inc., Morrisville NC, USA #31

17:22 INDIAsize - Planning & Execution of National Sizing Survey of India  
Noopur ANAND 1, Manoj TIWARI 2  
1 Department of Fashion Technology, National Institute of Fashion Technology, New Delhi, India;  
2 Department of Fashion Technology, National Institute of Fashion Technology, Jodhpur, India #38

## 17:45-18:00 Closing Session

17:45 Closing Speech from the Conference Director and Announcements for 3DBODY.TECH 2023  
Nicola D'APUZZO, Hometrica Consulting, Switzerland

## Icons / Symbols

Presentation/talk from **GOLD / SILVER / BRONZE / VIRTUAL** Exhibitor & Sponsor




 Presentation/talk related to **MOBILE APP** solutions

 Presentation/talk related to **4D & DYNAMIC** scanning, measurement, simulation, visualization

 Presentation/talk related to **AI / ML** Artificial Intelligence & Machine Learning

 Presentation/talk related to **AM / 3D PRINT** Additive Manufacturing & 3D Printing

 Presentation/talk related to **Metaverse & VR / AR** Virtual & Augmented Reality

 **Live demonstration** of 3D/4D equipment / solutions

## GOLD Exhibitors & Sponsors

### Size Stream (USA) [www.sizestream.com](http://www.sizestream.com)

Size Stream is a leader in 3D body scanning technology located in the renowned Research Triangle Park in North Carolina. Founded in 2012, Size Stream is a wholly owned subsidiary of TAL Group. Apart from innovation in the 3D industry, the company focuses on providing services to several markets including apparel, weight-loss, and uniforms, covering a worldwide network of customers. EveryBODY connected.

SIZE STREAM

### Avalution (Germany) [www.avalution.net](http://www.avalution.net)

Avalution scans, measures, analyses and digitalizes real people. The company has the world's largest body dimension database which contains the body scans of around 100,000 persons. Avalution also carries out serial measurement surveys and is a leader in the field of body scanning. Avalution makes size & fit and ergonomics measurable for product development in various industries.



### The Instituto de Biomecánica IBV (Spain) [anthropometry.ibv.org](http://anthropometry.ibv.org)

The Instituto de Biomecánica IBV supports innovative business models and research based on user anthropometry, by using advanced 3D data treatment tools (accurate and automated creation of 3D body avatars from 3D raw scans, 2D pictures or 1D measurements; 3D databases harmonisation tools, virtual measuring tape or shape analysis tools), smartphone 3D scanning technologies, and breakthrough 4D scanning technology.



### tOOiin - myeggO (France) [myeggo.com](http://myeggo.com)

tOOiin - myeggO has created and markets a 3D identity generator that automatically generates full-body photorealistic avatars that can be animated. These avatars or digital clones are generated by scanning real people in a revolutionary 3D photo booth. With their digital twins, users will be able to simulate physical transformations, change their look, and virtually try on some garments and accessories.



### NeXR Technologies (Germany) [www.nexr-technologies.com](http://www.nexr-technologies.com)

NeXR Technologies is an extended reality (XR) first-mover with unique hardware and software expertise. NeXR Technologies offers photo-real 3D avatar creation, virtual body measurement, virtual fitting, motion capture, and virtual reality solutions. Whether fashion, retail, shows or fitness: NeXR is the full service provider for Virtual Reality, Extended Reality, Mixed Reality and the Metaverse.



### ZOZO (Japan) [corp.zozo.com](http://corp.zozo.com)

ZOZO owns and operates ZOTOTOWN, Japan's largest fashion e-commerce. Housed within ZOTOTOWN are ZOCOSME, ZOSHOOES, ZOZUSED for second-hand clothing, ZOZOVILLA for luxury & designer brands, YOUR BRAND PROJECT for consumers for creating their own personal fashion brand, WEAR for sharing stylings and outfits. ZOZO has also developed technology devices for body measurement, such as the ZOSUIT, ZOMAT, ZOZGLASS.



### Prism Labs (USA/Austria) [www.prismlabs.tech](http://www.prismlabs.tech)

Prism Labs' cloud solution enables 3D body scanning and results tracking as easy as a 6-second spin in front of a single inexpensive depth camera. World class computer vision software is combined with cutting edge deep learning, camera technologies and over 300k real-world scans to push the boundaries of what is possible in 3D human reconstruction done with only a single inexpensive off-the-shelf depth camera.



### VyoO (Canada) [www.vyoo.ai](http://www.vyoo.ai)

VyoO has been founded in 2017 with the vision of expanding human vision by harnessing the powers of computer vision and machine learning. The founders and their team create the world's most accurate 3D mobile technologies to capture, recognize, analyze & track, to enable eCom & healthcare retailers and manufacturers to optimize workflows & enhance their customer experience.



## GOLD VIRTUAL Exhibitors & Sponsors

### 3dMD (USA/UK) [3dmd.com](http://3dmd.com)

3dMD, a proven leader in 3D high-precision anatomical scanning, will be demonstrating workflow efficiencies with its latest temporal-3D (4D) capture systems. 3dMD sequences of high-quality motion images of the full body, head, foot, and/or hand are supported by anthropometric measurement, projection and tracking apps to accelerate the development and training of innovative wearable technologies and devices that precisely adapt to their users' performance needs.



## SILVER Exhibitors & Sponsors

### IEEE-SA (USA) [standards.ieee.org/industry-connections/3d/bodyprocessing.html](http://standards.ieee.org/industry-connections/3d/bodyprocessing.html)

The IEEE-SA is a leading consensus building organization that nurtures, develops and advances global technologies. IEEE standards drive the functionality, capabilities and interoperability of a wide range of products and services that transform the way people live, work and communicate, including IEEE's Industry Connections program on 3D Body Processing.



### Revopoint (China/USA) [www.revopoint3d.com](http://www.revopoint3d.com)

Revopoint is a company that focuses on high-precision 3D vision technology innovation. Revopoint pursues ultimate innovation, prioritizing independent research and development of core technologies, and establishes a self-developed technology system ranging from micro-structured optical chip to high-precision 3D vision algorithms.



### botspot (Germany) [botspot.de](http://botspot.de)

Shifting the status quo with innovative 3D scanning solutions worldwide. Since 2013, botspot develops and builds 3D scanners "Made in Germany". The scanning technology utilizes photogrammetry that enables contactless, rapid and completely safe scanning. Objects of every size and every shape are scanned in just 0,01 seconds, the digital 3D replica appears as ultra precise data with highly colorfast texturing.



## SILVER Exhibitors & Sponsors (cont.)

### Made To Form (Switzerland) [madetoform.ch](http://madetoform.ch)

Made To Form software Bespoke 4D is the culmination of decades of research and development in the science of fit. The originality of the MTF technology lies in the direct creation of the garment in 3 dimensions based on the variable body postures, shape and characteristic points, but above all based on its ease of movement, hence the 4th dimension. The clothes created are therefore in 3 and 4 dimensions.



### ImFusion (Germany) [www.imfusion.com](http://www.imfusion.com)

ImFusion offers software solutions and R&D services for 3D scanning, computer vision and medical image computing. ImFusion's software platform allows rapid development of custom scanning and geometry processing solutions using GPU-accelerated algorithms and advanced interactive visualization. Popular RGB-D sensors such as the Intel RealSense and Orbbec Astra are directly supported.



### TechMed 3D (Canada) [techmed3d.com](http://techmed3d.com)

TechMed 3D offers human body measuring software for the O&P industry. TechMed 3D is committed to providing the most accurate, affordable, accessible, and easy to use 3D data acquisition solution. With TechMed 3D's solution, you'll enjoy the best human body scanning experience on the market.



### ESENCA (UK) [esenca.app](http://esenca.app)

ESENCA drastically increases fashion eComms' profits by using AI to provide sizing recommendations to their customers. ESENCA's tools embed into online shop's product pages, run directly in the browser, extract more than 100 body measurements, build the shopper's 3D model and enable them into a virtual try-on experience, and provide them with sizing, fitting and styling recommendations.



## BRONZE Exhibitors & Sponsors

### Six Atomic (Singapore) [www.sixatomic.com](http://www.sixatomic.com)

Six Atomic pioneers automation tech for the apparel industry, enabling a real-time supply chain. Six Atomic's capabilities cover rapid product development, measurement and size prediction and validation, pattern grading, automated 3D visualization, and production integration. Six Atomic can predict over 50 measurements with 97%+ accuracy, from basic inputs like height and weight.



### Shape Analysis (UK) [shapeanalysis.com](http://shapeanalysis.com)

Shape Analysis is the exclusive worldwide distributor of the CAESAR 3-D Anthropometric Database. The company has extensive experience in the development and use of 3D capture systems. Services of Shape Analysis have been used for the National Sizing Survey SizeUK, ShapeGB and for many other companies involved in apparel, health, fitness, sportswear, medical applications.



### Meshcapade (Germany) [meshcapade.com](http://meshcapade.com)

Meshcapade is a startup creating realistic human avatars for use in research, apparel, biomechanics, virtual reality and film. The nuances of human shape and movement are modeled by using machine learning and computer vision. Meshcapade builds automation from 3D & 4D scans, RGB-D sequences, Mocap, IMU and image data. Meshcapade brings realistic human models to life in everyday environments.



## BASIC Sponsors

### Hometrica Consulting (Switzerland) [www.hometrica.ch](http://www.hometrica.ch)

Hometrica Consulting - Dr. Nicola D'Apuzzo is organizing the series of 3DBODY.TECH Conference & Expo. Hometrica Consulting is a leading international consulting firm in the sectors of 3D human body scanning and processing technologies.

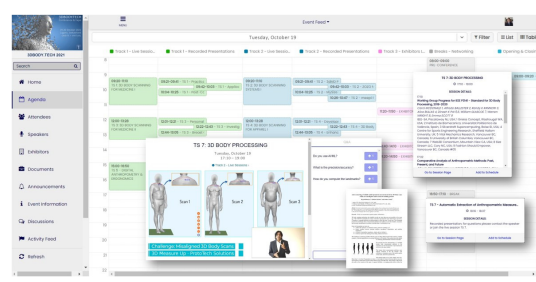
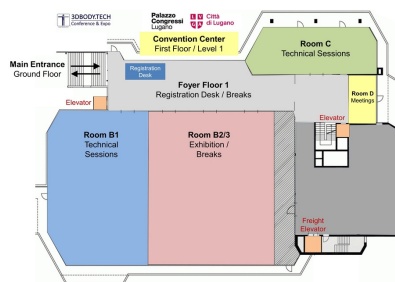


## 3DBODY.TECH Conference & Expo Venue: Lugano Convention Center + Online Conference Platform

The conference and exhibition take place at the 1<sup>st</sup> floor of the Lugano Convention Center.

Address: Palazzo dei Congressi, Piazza Indipendenza 4, 6900 Lugano, Switzerland [www.luganoconventions.com](http://www.luganoconventions.com)

The 3DBODY.TECH 2022 online conference platform will be accessible to all onsite and online attendees, speakers, exhibitors.



## Conference Office

Conference office: HOMETRICA CONSULTING - Dr. Nicola D'Apuzzo  
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