

3DBODY.TECH 2020 - PROGRAM



11th 3DBODY.TECH Conference & Expo

ONLINE / VIRTUAL · 17-18 November 2020

www.3dbody.tech

Program Outline - CET (Central Europe Time) UTC+1 - Time Zone Rome/Paris/Berlin/Madrid

3DBODY.TECH 2020, ONLINE / VIRTUAL, 17-18 November 2020, www.3dbody.tech 11th International Conference and Exhibition on 3D Body Scanning and Processing Technologies CET (Central Europe Time) UTC+1 - Time Zone Rome/Paris/Berlin/Madrid					
Time	Tuesday 17 November 2020			Wednesday 18 November 2020	
08:00	Pre-conference / 1-on-1 Networking		Virtual Exhibition	24h / 1-on-1 Networking	
09:00	Opening Session			Networking	
10:00	Technical Session 1 3D Body Scanning Systems I	Technical Session 2 3D Body Scanning Systems II	Virtual Exhibition	Technical Session 7 3D Body Scanning for Sport & Fitness	Technical Session 8 Body Modeling & Avatars
11:00	Break / 1-on-1 Networking			Exhibitors Live Stream I	Break / 1-on-1 Networking
12:00	Technical Session 3 3D Body Scanning for Medicine	Technical Session 4 3D Body Scanning for Apparel I	Virtual Exhibition	Technical Session 9 3D Foot, Hand & Face Scanning	Technical Session 10 3D Body Scanning for Apparel II
13:00	Lunch Break / 1-on-1 Networking			Exhibitors Live Stream II	Lunch Break / 1-on-1 Networking
14:00	Technical Session 5 Digital Anthropometry & Ergonomics	Technical Session 6 3D Body Scanning Systems III	Virtual Exhibition		Technical Session 11 3D Body Processing
15:00	Lunch Break / 1-on-1 Networking			Exhibitors Live Stream III	Closing Session
16:00	24h / 1-on-1 Networking		Virtual Exhibition		Past-conference / 1-on-1 Networking
17:00				Exhibitors Live Stream IV	
18:00			Virtual Exhibition		

Calendar file with start/end times of all the sessions (useful for converting times to different time zones):
https://www.3dbody.tech/docs/3dbody2020_calendar.ics

Conference Office

Conference office: HOMETRICA CONSULTING - Dr. Nicola D'Apuzzo
 Via Collegio 28, CH-6612 Ascona, Switzerland
 Conference website: www.3dbody.tech info@3dbody.tech
 Conference phones: +41.91.791.5524



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Tuesday 17 November 2020 - CET (UTC+1) Time Zone Rome/Paris/Berlin/Madrid

08:00-09:00 **Pre-conference / 1-on-1 Networking**

09:00-09:10 **Opening Session**

09:00 Welcome Speech from the Conference Director
Nicola D'APUZZO
Hometrica Consulting, Switzerland



09:10-10:50 **Technical Session 1: 3D Body Scanning Systems I – Track 1 Green**

S. Chair: Prof Dr Astrid LAUBENHEIMER
Karlsruhe University of Applied Science, Germany

09:10 Mobile Scanning of Body Parts with Calibry Mini Scanner
Vadim FOMICHEV 1,2
1 Calibry International UG, Dusseldorf, Germany;
2 Thor3D, Moscow, Russia #59



09:35 When Standard is No Longer Enough: Developing Versatile Body Scanners and Scanning Strategies
Niklas BRUSTEN
botspot GmbH, Berlin, Germany #49



10:00 Evaluation of 3D Registration Deep Learning Methods using Iterative Transformation Estimations
David BOJANIĆ 1, Kristijan BARTOL 1, Tomislav PETKOVIĆ 1, Nicola D'APUZZO 2, Tomislav PRIBANIĆ 1
1 University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia;
2 Hometrica Consulting, Ascona, Switzerland #31



10:25 Practical Procedures for Breast Profiling Using Shape-from-Shading
Harvey MITCHELL
School of Engineering, University of Newcastle, Newcastle, Australia #42

09:10-10:50 **Technical Session 2: 3D Body Scanning Systems II – Track 2 Blue**

Session Chair: Prof Dr Yordan KYOSEV
ITM, TU Dresden, Germany

09:10 Computers Have Much to Learn About Humans!.....How 4D Scanning Can Accelerate This.
Chris LANE
3dMD Ltd., London / Atlanta GA, UK / USA #01



09:35 ZOZOSUIT & ZOZOMAT: Solutions for Online Shopping in Japan
Bo LI
ZOZO New Zealand Ltd., Auckland, New Zealand #47



10:00 FITTIN - Online 3D Shoe Try-on
Andrej REVKOV, Dmitriy KANIN
Fittin, Voronezh, Russia #58



10:50-11:40 **Break / 1-on-1 Networking**

11:00-11:30 **Virtual Exhibitors Scheduled Live Stream I – Track 3 Rose**

11:00-11:30 Live Demonstration & Presentation from Quantum Matrix Ltd., Hong Kong



- 11:40 Personalized 3D Breast Cancer Models with Automatic Image Segmentation and Registration
Sílvia BESSA 1,2, João F. TEIXEIRA 1,2, Pedro H. CARVALHO 1, Pedro F. GOUVEIA 3,4, Hélder P. OLIVEIRA 1,2
1 INESC TEC, Porto, Portugal;
2 University of Porto, Porto, Portugal;
3 Champalimaud Foundation, Lisbon, Portugal;
4 University of Lisbon, Lisbon, Portugal #15

12:05 Post-Covid-19 Beauty Industry



- Soroush VALINIA 1,2
1 Department of Research and Development, Tarah Teb Co., Tehran, Iran;
2 Smart Beauty Co., Istanbul, Turkey #43

12:30 Investigation of Smallest Volume Difference Measurable Using 3D Imaging

- Zhale NOWROOZILARKI 1, Mary Catherine BORDES 2, Urmila SAMPATHKUMAR 3,
Summer E. HANSON 2, Gregory P. REECE 2, Mia K. MARKEY 4,5, Fatima A. MERCHANT 1,3,4
1 Department of Engineering Technology, University of Houston, Houston TX, USA;
2 Department of Plastic Surgery, The University of Texas MD Anderson Cancer Center, Houston TX, USA;
3 Department of Computer Science, University of Houston, Houston TX, USA;
4 Department of Biomedical Engineering, The University of Texas at Austin, Austin TX, USA;
5 Department of Imaging Physics, The University of Texas MD Anderson Cancer Center, Houston TX, USA #26

12:55 Application of Multiple Views and Stereo-3D Imaging Technology to Burn Care

- Tung Jing FANG 1,2,3, Chen HAN 4, Lai-Chung LEE 4, Chuan Chia WANG 5, Chia Chung FANG 6
1 Department of Electronic Engineering, National Taipei University of Technology, Taipei, Taiwan;
2 Department of Internal Medicine, Taipei Veterans-General Hospital and Tri-Service General Hospital, Taipei, Taiwan;
3 Department of Physiology and Biophysics, Institute of Physiology, National Defense Medical Center, Taipei, Taiwan;
4 Institute of Interaction Design, National Taipei University of Technology, Taipei, Taiwan;
5 GIGA-BYTE Technology Co. Ltd., Taipei, Taiwan;
6 Lab of Stem Cell and Tissue Regeneration, National Defense Medical Center, Taipei, Taiwan #16

- 11:40 Development of an Automated Product Development Process for Tailored Bras Using Breast-Specific Measurements from 3D Body Scans in Conjunction with an Interactive Pattern Construction
Elena BRAKE 1, Gabriela KOSEL 1, Katerina ROSE 1, Ulrike GRÜN 2, Anke RISSIEK 2
1 Reutlingen University, Germany;
2 Avalution GmbH, Kaiserslautern, Germany #55

12:05 Virtual Fit vs. Physical Fit - How Well Does 3D Simulation Represent the Physical Reality

- Flora ZANGUE, Christian PIRCH, Anke KLEPSEK, Simone MORLOCK
Hohenstein Digital Fitting Lab, Bönnigheim, Germany #21

12:30 Scan to Knit - From Body Scan Directly to the Knitting Machine

- Dominik ŠURC 1, Dominik MICHEL 2, Alexander MIROSNICENKO 1, Alexander ARTSCHWAGER 1, Uwe RÖDER 1
1 DIFT Deutsche Institute für Textil- und Faserforschung Denkendorf, Denkendorf, Germany;
2 Avalution GmbH, Kaiserslautern, Germany #30

12:55 3D Body Scanning with Mobile Application: An Introduction to Globalise Mass-Customisation with Pakistani Fashion E-Commerce Unstitched Apparel Industry



- Sadia IDREES, Gianpaolo VIGNALI, Simeon GILL
School of Natural Sciences, Department of Materials, Faculty of Science & Engineering, The University of Manchester, UK #12

13:20-15:00 **Lunch Break / 1-on-1 Networking**13:30-14:50 **Virtual Exhibitors Scheduled Live Stream II – Track 3 Rose**

- 13:30-14:10 Live Demonstration & Presentation from 3dMD Ltd., Atlanta GA, USA

- 14:20-14:50 Live Demonstration & Presentation from Size Stream LLC, Cary NC, USA

15:00-16:40 Technical Session 5: Digital Anthropometry & Ergonomics – Track 1 GreenSession Chair: Dr James KUANG
Department of National Defence, Canada

15:00 Allometry Between Measures of Body Size and Shape in a Large Population-Based Cohort
Michael THELWELL 1, Alice BULLAS 1, Andreas KUHNAPFEL 3,4, John HART 1,
Peter AHNERT 3,4, Jon WHEAT 2, Markus LOEFFLER 3,4, Markus SCHOLZ 3,4,5, Simon CHOPPIN 1
1 Sports Engineering, Sport and Physical Activity Research Centre, Sheffield Hallam University, Sheffield, UK;
2 College of Health, Wellbeing and Life Sciences, Sheffield Hallam University, Sheffield, UK;
3 LIFE Research Center for Civilisation Diseases, Leipzig University, Germany; 4 Institute for Medical Informatics,
Statistics and Epidemiology, Leipzig University, Germany; 5 IFB Adiposity Diseases, Leipzig University, Germany #10

15:25 Modification of the Female Figure Identification Technique (FFIT) Formulas to Include Plus Size Bodies
Susan L. SOKOLOWSKI, Chrissy BETTENCOURT
Sports Product Design, University of Oregon, Portland OR, USA #22

15:50 Comparison and Validation of Traditional and 3D Scanning Anthropometric Methods to Measure the Hand
Emily SEIFERT, Linsey GRIFFIN
University of Minnesota, St. Paul MN, USA #41

16:15 Improving the Fit of Respiratory Face Masks through 3D Scanning, Finite Elements Analysis and Additive Manufacturing
Loïc DEGUELDRE 1, Jonathan BORDUAS 2, Francis DION 2, Patrick LAURIN 2, Aude CASTONGUAY 2,
Sean-Philippe VIENS 2, Franck LE NAVÉAUX 1, Bahe HACHEM 1, David BENOIT 1, Julien CLIN 1
1 Numalogics, Montréal QC, Canada; 2 Technologies Shapeshift 3D Inc., Montréal QC, Canada #33

15:00-16:40 Technical Session 6: 3D Body Scanning Systems III – Track 2 BlueSession Chair: Prof Dr Tomislav PRIBANIĆ
University of Zagreb, Croatia

15:00 Research Applications of 3D Body Shapes Capture in Movement. MOVE4D
A New Innovative Solution for 4D Full Body Digitization
Sandra ALEMANY
Instituto de Biomecanica, Universitat Politècnica de València, València, Spain #39

15:25 Medical-Grade Smartphone 3D Body Scanning Technology in Consumer-Facing Applications
Jeff CHEN
NetVirta, Boston MA, USA #60

15:50 MeThreeSixty Improvements from Size Stream
Warren WRIGHT
Size Stream LLC, Cary NC, USA #27

16:15 IO Industries' Volucam - Simplified Multi-Camera Video Recording Solutions
Andrew SEARLE
IO Industries Inc., London ON, Canada #61

16:40- 24h / 1-on-1 Networking**Wednesday 18 October 2020 - CET (UTC+1) Time Zone Rome/Paris/Berlin/Madrid****08:00-09:10 24h / 1-on-1 Networking****09:10-10:50 Technical Session 7: 3D Body Technology for Sport & Fitness – Track 1 Green**S. Chair: Dr Saša ČUKOVIĆ
ETH Zurich, Switzerland

09:10 Development of an Articulating Cycling Mannequin for Wind Tunnel Testing
Raman GARIMELLA 1,2, Siemen MOENS 2, Jochen VLEUGELS 1, Toon HUYSMANS 3, Koen BEYERS 2, Stijn VERWULGEN 1
1 Department of Product Development, Faculty of Design Sciences, University of Antwerp, Antwerp, Belgium;
2 Voxdale bv, Wijnegem, Belgium; 3 Section on Applied Ergonomics and Design, Faculty of Industrial Design Engineering, Delft
University of Technology, Delft, The Netherlands #11

09:35 An Indoor Training Bike to Provide Real-Time Feedback on the
Aerodynamic Cycling Position Using Frontal Area Calculations
Thomas PEETERS 1, Raman GARIMELLA 1,2, Stijn VERWULGEN 1
1 Department of Product Development, Faculty of Design Sciences, University of Antwerp, Antwerp, Belgium;
2 Voxdale bv, Wijnegem, Belgium #24

10:00 Half-Scale Body Forms in Active Poses for Design Development: Use of Pressure Data for Bicycle Clothing Design
Arzu VURUSKAN 1, Susan ASHDOWN 2
1 Izmir University of Economics, Izmir, Turkey; 2 Cornell University, Ithaca, NY, USA #19

10:25 3D Body Scanning for Weight Loss Motivation
David BRUNER
Size Stream LLC, Cary NC, USA #57

09:10 An Open-Source Articulated Multi-Person Shape Model Training and Inference Pipeline



Samuel ZEITVOGEL, Astrid LAUBENHEIMER

Intelligent Systems Research Group, Faculty of Computer Science and Business Information Systems,
Karlsruhe University of Applied Sciences, Germany #17

09:35 A Review of 3D Human Pose Estimation from 2D Images



Kristijan BARTOL 1, David BOJANIĆ 1, Tomislav PETKOVIĆ 1, Nicola D'APUZZO 2, Tomislav PRIBANIĆ 1

1 University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia;
2 Hometrica Consulting, Ascona, Switzerland #29

10:00 Algorithmic Issues During the FEM Mesh Preparation of Human Models Based on 3D Body Scans

Yordan KYOSEV, Doudou ZHANG

TU Dresden, Institute of Textile Machinery and High Performance Material Technology (ITM), Dresden, Germany #48

10:25 Meshcapade Overview



Ben KILGORE, Naureen MAHMOOD

Meshcapade GmbH, Tübingen, Germany #50

10:50-11:40 **Break / 1-on-1 Networking**11:00-11:30 **Virtual Exhibitors Scheduled Live Stream III** – Track 3 Rose

11:00-11:30 Live Demonstration & Presentation from from IBV, Valencia, Spain

11:40-13:20 **Technical Session 9: 3D Foot, Hand & Face Scanning** – Track 1 GreenSession Chair: Dr Harvey MITCHELL
University of Newcastle, Australia

11:40 Correlation of Foot Width and Instep Height for Male and Female Feet

Ales JURCA 1,2, Sašo DŽEROSKI 2,3

1 Volumental AB, Stockholm, Sweden; 2 Jozef Stefan International Postgraduate School, Ljubljana, Slovenia;
3 Jozef Stefan Institute, Ljubljana, Slovenia #44

12:05 Arm and Forearm Scanning Methodology for the Development of an Orthotic Device for Tetraplegic Patients

Branko ŠTEFANOVIČ, Monika MICHALÍKOVÁ, Lucia BEDNARČIKOVÁ, Marianna TREBUŇOVÁ, Radovan HUDÁK

Dep. of Biomedical Engineering and Measurement, Faculty of Mechanical Engineering, Technical University of Košice, Slovakia #06

12:30 Make It Easy: Reliability of Automatic Measurement for 3D Hand Scanning

Md Arif-UI-Anwar BHUYAN, Linsey GRIFFIN

Department of Design, Housing, and Apparel, College of Design, University of Minnesota, Minneapolis MN, USA #38

12:55 Reliability of Mobile 3D Scanning Technologies for the Customization of Respiratory Face Masks



Jonathan BORDUAS, Aude CASTONGUAY-HENRI, Patrick LAURIN, Sean-Philippe VIENS, Daniel BÉLAND

Technologies Shapeshift 3D Inc., Montréal QC, Canada #34

11:40-13:20 **Technical Session 10: 3D Body Scanning for Apparel II** – Track 2 BlueSession Chair: Dr Inga DĀBOLIŅA
Riga Technical University, Latvia

11:40 Analysis of Clothing Deformation During Motion and its Application for the Design of Functional Clothing



Doudou ZHANG, Sybille KRZYWINSKI, Yordan KYOSEV

TU Dresden, Institute of Textile Machinery and High Performance Material Technology, Germany #09

12:05 Using 3D Scanning to Create 4D Motion Data for Clothing Simulation



Christian PIRCH, Anke KLEPSEK, Simone MORLOCK

Hohenstein Institut für Textilinnovation gGmbH, Bönningheim, Germany #13

12:30 Morpheus: A Platform for the Representation, Manipulation and Secure Access
of Standardized Morphological Data for the Digital Age Textile Industry

Julien DUCRET 1, Cédric CLAIRE 1, Alexis CHARLOT 1, Xavier AMEZIANE 1,2, Samuel CRUZ-LARA 2

1 Morpheus S.A.S., Nancy, France; 2 LORIA UMR 7503 - University of Lorraine, Vandoeuvre-lès-Nancy, France #08


12:55 Global Trends in Body Measurement and Shape Development -
and Their Impacts on Technical Product Development, Size and Fit


Anke RISSIEK


Avalution GmbH, Kaiserslautern, Germany #54

13:20-15:20 **Lunch Break / 1-on-1 Networking**

13:30-15:10 **Virtual Exhibitors Scheduled Live Stream IV – Track 3 Rose**

13:30-13:50 Live Demonstration & Presentation from 3dMD Ltd., Atlanta GA, USA 

14:00-14:30 Live Demonstration & Presentation from botspot GmbH, Berlin, Germany 

14:40-15:10 Live Demonstration & Presentation from Calibri 3D, Dusseldorf/Moscow, Germany/Russia 

15:20-17:00 **Technical Session 11: 3D Body Processing – Track 1 Green**

Session Chair: Rudi SCHUBERT
IEEE-SA, USA

15:20 Working Group Progress for IEEE P3141 - Standard for 3D Body Processing, 2019-2020



Carol MCDONALD 1, Alfredo BALLESTER 2, Randy K RANNO 3, Alice BULLAS 4, Dinesh K PAI 5,6, William GLASCOE 7, Warren WRIGHT 8, Emma SCOTT 9
IEEE-SA, Piscataway NJ, USA; 1 Gneiss Concept, Washougal WA, USA; 2 Instituto de Biomecanica, Universitat Politècnica de València, Spain; 3 Silverdraft Supercomputing, Boise ID, USA; 4 Centre for Sports Engineering Research, Sheffield Hallam University, UK; 5 Vital Mechanics Research, Vancouver BC, Canada; 6 University of British Columbia, Vancouver BC, Canada; 7 Web3D Consortium, Mountain View CA, USA; 8 Size Stream LLC, Cary NC, USA; 9 Fashion Should Empower, Vancouver BC, Canada #05

15:45 Comparative Analysis of Anthropometric Methods: Past, Present, and Future



Alfredo BALLESTER 1, Warren WRIGHT 2, Jorge VALERO 1, Alice BULLAS 3, Tim DEVLIN 4, Emma SCOTT 5, Carol MCDONALD 6
1 Instituto de Biomecanica, Universitat Politècnica de València, Spain; 2 Size Stream LLC, Cary NC, USA; 3 Centre for Sports Engineering Research, Sheffield Hallam University, UK; 4 Yellowjacket Technologies, Berlin, Germany; 5 Fashion Should Empower, Vancouver Island BC, Canada; 6 Gneiss Concept, Washougal WA, USA #28

16:10 Automatic Extraction of Anthropometric Measurements from 3D Body Scans which are Misaligned or in Natural Posture



Rajesh BHARTIYA, Abhishek MISHRA, Omkar PANDE
3D Measure Up, ProtoTech Solutions Pvt. Ltd., Pune, India #53

16:35 Quantitative Comparison of Manual vs. 3D Scanner Human Body Measurements

Andrei KOVAL
Bremen University, Bremen, Germany #35

15:20-17:00 **Technical Session 12: 3D Body Scanning for Apparel III – Track 2 Blue**

Session Chair: Dr Simeon GILL
The University of Manchester, UK

15:20 Development and Usage of 3D-Modeled Body Shapes for 3D-Pattern Making

Gabriela KOSEL, Katerina ROSE
Reutlingen University, Reutlingen, Germany #14

15:45 Scalable Fit Testing and Visualization with VitalFit Soft Avatars

Dinesh K PAI 1,2, Yuan TIAN 1,2, Ye FAN 1,2
1 Vital Mechanics Research, Vancouver BC, Canada; 2 University of British Columbia, Vancouver BC, Canada #37

16:10 Enhancing Pattern Construction by Body Scanning: The Importance of Curves

Tarfah ALRUSHAYDAN, Simeon GILL, Kristina BRUBACHER, Steven G. HAYES
The University of Manchester, Manchester, UK #56

16:35 3D Body Scanners' Ability to Improve the Cutting of Patterns for Traditional

Saudi Garment to Assimilate Them into Modern-Day Clothing
Faizah ALMALKI, Simeon GILL, Steven G. HAYES, Lisa TAYLOR
The University of Manchester, Manchester, UK #25

17:00-17:10 **Closing Session**

17:10 Closing Speech from the Conference Director and Announcements for 3DBODY.TECH 2021



Nicola D'APUZZO
Hometrica Consulting, Switzerland

17:10- **Past-conference / 1-on-1 Networking**

Icons / Symbols



Presentation/talk from **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 **VR / AR** Virtual & Augmented Reality



Presentation/talk related to **COVID-19** & pandemic

VIRTUAL Exhibitors & Sponsors

Quantum Matrix (Hong Kong) quantum-matrix.ai

Quantum Matrix provides World's leading automated creation system of virtual human. The patented QHuman technology is a 100% automated scan-to-avatar technology which provides 1-click automatic retopology and rigging from scan mesh. Quantum Matrix's other patented Q-Fit technology is the World's only real-time auto-fit cloth system for retail which generates 3D animation with cloth simulation, user interactivity and style.



Size Stream (USA) www.sizestream.com

Size Stream is the leader in 3D body data and scanning solutions for the apparel, health, and fitness industries. With hundreds of customers throughout the globe, Size Stream is one of the most widely implemented platforms for acquiring accurate and affordable 3D body data. Size Stream brings over 100 years of combined experience in 3D body scanning, fashion design, and technology development to their valued customers.

SIZE STREAM

The Instituto de Biomecánica IBV (Spain) anthropometry.ibv.org

The Instituto de Biomecánica IBV supports innovative business models 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) and smartphone 3D scanning technologies.



IEEE-SA (USA) 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.



Meshcapade (Germany) meshcapade.com

Meshcapade (Germany) is creating realistic human avatars to recover detailed human attributes such as bodies, faces, hands and soft-tissue movements from 3D&4D scans, RGB-D sequences, motion capture and image data. Using machine learning and advanced graphics, the nuances of how humans look and move are modeled. Meshcapade is pushing to bring realistic human models to life in everyday environments.



3dMD (USA/UK) www.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 help promote and advance the creation of new wearable technologies that precisely adapt to a person's shape and enhance performance.



botspot (Germany) botspot.de

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. Individual complete scanning solutions within every scope of application are also realized in the special botspot R&D department.



Calibry 3D (Germany/Russia) thor3dscanner.com/calibry

Calibry 3D is the manufacturer of hand-held 3D scanners based out of Moscow, Russia and Dusseldorf, Germany. The company's products are distinct for their ability to digitize historically difficult-to-capture objects such as black and shiny items, as well as sharp edges. Two scanners are in the company's portfolio: Calibry 3D scanner meant for medium objects and Calibry Mini 3D scanner meant for small objects; both scanners are lightweight, accurate and affordable.



Shape Analysis (UK) 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.



Hometrica Consulting (Switzerland) 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.



Conference Office

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