



Program of the

**6th International Conference and Exhibition on
3D Body Scanning Technologies**

Lugano, Switzerland, 27-28 October 2015

Organizer

Hometrica Consulting - Dr. Nicola D'Apuzzo
Ascona, Switzerland



www.hometrica.ch

CONFERENCE PROGRAM



6th International Conference and Exhibition on 3D Body Scanning Technologies

Lugano, Switzerland, 27-28 October 2015

Organized by HOMETRICA CONSULTING · Switzerland

www.3dbodyscanning.org/2015

Program Outline

6 th International Conference and Exhibition on 3D Body Scanning Technologies, Lugano, Switzerland, 27-28 October 2015						
Time	Tuesday 27 th October 2015			Wednesday 28 th October 2015		
08:00	Registration		Exhibition Setup	Registration		Exhibition Setup
09:00			Exhibition	Technical Session 7 Medical Applications II	Technical Session 8 Body Scanning Systems II	Exhibition
10:00	Opening Session			Coffee Break		
	Coffee Break					
11:00	Technical Session 1 Medical Scanning Systems	Technical Session 2 Body Scanning for Apparel I		Technical Session 9 Digital Anthropometry	Technical Session 10 RGB-D Sensors & Low Cost Systems	
12:00	Lunch Break			Lunch Break		
13:00						
14:00	Technical Session 3 Medical Applications I			Technical Session 11 Scanning Methods & Technologies	Technical Session 12 Anthropometric Studies & Surveys	
15:00				Coffee Break		
16:00	Coffee Break					
17:00	Technical Session 5 Body Scanning for Health & Sport	Technical Session 6 Body Scanning for Apparel II		Technical Session 13 Body Modeling & Avatars	Technical Session 14 Body Scanning Assessment & Use	
18:00	Welcome Cocktail			Closing Session		
19:00						

Conference Office



HOMETRICA CONSULTING - Dr. Nicola D'Apuzzo
Via Collegio 28, CH-6612 Ascona, Switzerland
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Conference email: info@3dbodyscanning.org
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6th International Conference and Exhibition on
3D Body Scanning Technologies
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Tuesday 27th October 2015

08:00-09:30 **Registration** – Welcome Desk

09:30-10:30 **Opening Session** – Room B1

Session Chair: Dr. Nicola D'Apuzzo
Hometrica Consulting (Switzerland)

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

09:50 World Premieres and First Time Public Announcements at the Conference and Exhibition
Styku (USA), 3dMD (UK/USA), Size Stream (USA), VITRONIC (Germany), IBV (Spain),
TechMed 3D (Canada), Human Solutions (Germany), ViaLuc (Germany), 4DDynamics (Belgium)

10:30-11:00 **Coffee Break** – Foyer

11:00-13:00 **Technical Session 1: Medical Scanning Systems** – Room C

Session Chair: David Stefan
Novaptus Systems (USA)

11:00 Medical-Grade 3D-Shape Measurement by Real-Time Matching of Area Scans
R. Höfling, P. Aswendt
ViALUX GmbH, Chemnitz, Germany #06

11:24 Multi-Scaling 3D Measurement of the Skin Face & Body
Jean-Jacques Servant
Eotech, Macoussis, France #08

11:48 3D Medical Imaging in the Community.
Experience of High Volume Surface Imaging in both 3D and Temporal 3D (4D)
Chris Lane
3dMD Ltd, London, UK #24

12:12 Scanning Human Body: Difficulties and Solutions
Michel Babin
TechMed 3D, Lévis, QC, Canada #33

12:36 3D Imaging Systems of Canfield Scientific
Dennis Da Silva
Canfield Scientific Inc., Utrecht, The Netherlands #63

11:00-13:00 **Technical Session 2: Body Scanning for Apparel I** – Room B1

Session Chair: Dr. Agnes Psikuta
EMPA (Switzerland)

11:00 3D Product Development for Loose-Fitting Garments Based on Parametric Human Models
Sybille Krzywinski, Jana Siegmund, Ellen Wendt
TU Dresden, Institute of Textile Machinery and High Performance Material Technology (ITM), Dresden, Germany #38

11:24 Developing a 3D-Printed Obese Model for Assessing Fit of Wearable Smart Garments
Mahendran Balasubramanian, Mary Ruppert-Stroescu
Department of Design, Housing and Merchandising, Oklahoma State University, OK, USA #54

11:48 Apparel Fit Assessment Using Parametric Models
Pinkie E. Zwane
University of Swaziland (UNISWA), Textiles, Apparel Design & Management, Luyengo, Swaziland #26

12:12 Tablet-Based 3D Foot Scanning - A Fitting Solution for Shoe Retailers
Julian Martini
VITRONIC GmbH, Germany #22

12:36 Fashion Design and Development Based on 3D Scanning Technology
Huanyun Wei, Tingyu Xu, Yue Xin, Li Zhou
College of Textile & Garment, Southwest University, Chongqing, China #14

13:00-15:00 **Lunch Break**

15:00-16:30 Technical Session 3: Medical Applications I – Room CSession Chair: Dr. Daniele Regazzoni
Università di Bergamo (Italy)

- 15:00 Longitudinal Statistical Analysis of Weight, Volume, Surface Area, Shape and Circumferential Measurements for a Female Bariatric Population
David B. Stefan¹, David A. Gilbert²
1 Novaptus Systems Inc., Chesapeake, VA, USA;
2 The Hague Center for Cosmetic and Reconstructive Surgery, Norfolk, VA, USA #09
- 15:22 Microsoft Kinect V2 Based Human Postural Deformities Assessment
Milan Pantović¹, Dejan Stanojević², Miloš Stanojević³, Marko Stanojević⁴, Nikola Jevtić⁵
1 Faculty of Sport and Physical Education, Univ. of Novi Sad, Serbia; 2 ADVANDIS - Advanced Digital Solutions Ltd., Belgrade, Serbia;
3 Trinity College, The University of Cambridge, Cambridge, UK; 4 Mathematical Gymnasium, Belgrade, Serbia;
5 Scolio Centar - Scoliosis Rehabilitation Centre, Novi Sad, Serbia #64
- 15:45 3D Craniofacial Morphometric Analysis of Young Subjects with Marfan Syndrome: A Preliminary Report
Claudia Dolci¹, Valentina Pucciarelli¹, Marina Codari¹, Daniele M. Gibelli¹, Susan Marelli², Giuliana Trifirò³, Alessandro Pini², Chiarella Sforza¹
1 Dipartimento di Scienze Biomediche per la Salute, Università degli Studi di Milano, Milano, Italy;
2 Centro Malattie Rare, MarfanClinic, A.O. Luigi Sacco, Milano, Italy;
3 U.O. Pediatria, A.O. Salvini, Rho (Milano), Italy #52
- 16:08 Three Dimensional Craniofacial Features of Glut1 Deficiency Syndrome Patients
Valentina Pucciarelli¹, Marina Codari¹, Chiara Invernizzi¹, Simona Bertoli², Alberto Battezzati², Ramona De Amicis², Valentina De Giorgis³, Pierangelo Veggiotti^{3,4}, Chiarella Sforza¹
1 Dipartimento di Scienze Biomediche per la Salute, Università degli Studi di Milano, Milano, Italy;
2 Dipartimento di Scienze per gli Alimenti, la Nutrizione e l'Ambiente, Università degli Studi di Milano, Milano, Italy;
3 Department of Child Neurology and Psychiatry, C. Mondino National Neurological Institute, Pavia, Italy;
4 Brain and Behaviour Department, University of Pavia, Pavia, Italy #53

15:00-16:30 Technical Session 4: Body Scanning Systems I – Room B1Session Chair: Prof. Zoran Anisic
University of Novi Sad (Serbia)

- 15:00 From Handheld Tablets to Retail Booths - New 3D Body Scanning Solutions
David Bruner
Size Stream LLC, Cary NC, USA #01
- 15:22 IIIDBody: Print, Measure, Play
Geert Willems
4DDynamics bvba, Antwerp, Belgium #57
- 15:45 The Body, as a Digital Platform for Your Lifestyle
Raj Sareen
Styku, Los Angeles CA, USA #03
- 16:08 Preparing for Wearable Technology - The Importance and Requirements of Highly Efficient and Precise 3D Temporal Imaging
Chris Lane
3dMD LLC, Atlanta GA, USA #62

16:30-17:00 Coffee Break – Foyer**17:00-19:00 Technical Session 5: Body Scanning for Health, Fitness & Sport – Room C**Session Chair: Dr. David Bruner
Size Stream (USA)

- 17:00 Categorizing the Morbidly Obese Body Shape and Estimating Body Appearance Outcome before Weight Loss Surgery Using 3D Anthropometric Data
David B. Stefan¹, David A. Gilbert²
1 Novaptus Systems Inc., Chesapeake, VA, USA;
2 The Hague Center for Cosmetic and Reconstructive Surgery, Norfolk, VA, USA #10
- 17:24 Anthropometric based Estimation of adiPoSity - The ADEPS Project
Willem De Keyser¹, Frank Deruyck², Benjamin Van Der Smissen³, Simona Vasile⁴, Joris Cools⁴, Alexandra De Raeve⁴, Stefaan De Henauw^{5,1}, Peter Van Ransbeeck³
1 Bio- and food sciences, University College Ghent, Ghent, Belgium; 2 Exact sciences, University College Ghent, Ghent, Belgium;
3 Mechatronics, Univ. College Ghent, Ghent, Belgium; 4 Fashion, textile and wood technology, Univ. College Ghent, Ghent, Belgium;
5 Public health, Ghent University, Ghent, Belgium #39
- 17:48 Automatic Analysis of 3D Scans of Professional Athletes
Andrea Giachetti¹, Francesco Piscitelli², Valentina Cavedon², Chiara Milanese², Carlo Zancanaro²
1 Dpt. of Computer Science, University of Verona, Verona, Italy;
2 Lab. of Anthropometry & Body Composition, Dpt. of Neurological and Movement Sciences, University of Verona, Verona, Italy #44
- 18:12 Wholebody Magnetic Resonance Imaging Enables Assessing Spatial Accuracy and Precision of Skeletal Joint Locations Inferred from Motion Capture Systems
Susan Giblin¹, Maeve Smith¹, Stephen Smith¹, Stuart O'Brien¹, Jason Philip McMorro², James Meany², Friedrich Wetterling¹
1 Kitman Labs Ltd., Dublin, Ireland;
2 Center for Advanced Medical Imaging (CAMI), St. James's Hospital & Trinity College, The University of Dublin, Dublin, Ireland #42
- 18:36 3D Scanning for Fitness, Health, and Beyond
Greg Moore
Fit3D Inc., Redwood CA, USA #59

17:00-19:00 Technical Session 6: Body Scanning for Apparel II – Room B1Session Chair: Prof. Dr. Sybille Krzywinski
ITM, TU Dresden (Germany)

- 17:00 Volume Extraction from Body Scans for Bra Sizing
Matteo Matteo Colaiani¹, Christian Siegl¹, Sandra Penkunas², Franz Rott², Günther Greiner¹
¹ Computer Graphics Group, University Erlangen-Nuremberg, Erlangen, Germany
² Adidas Group, Germany #31
- 17:24 Determination of the Air Gap Thickness Underneath the Garment for Lower Body Using 3D Body Scanning
Emel Mert^{1,2}, Sonja Böhnisch^{1,3}, Agnes Psikuta¹, Marie-Ange Bueno², René M. Rossi¹
¹ Empa - Swiss Federal Laboratories for Materials Science and Technology, Laboratory for Protection and Physiology, St. Gallen, Switzerland; ² Univ. de Haute Alsace Haute Alsace, Laboratoire de Physique et Mécanique Textiles, Ecole Nationale Supérieure d'Ingénieurs Sud Alsace, Mulhouse, France ; ³ Hochschule Albstadt-Sigmaringen, Germany #20
- 17:48 A Dense Surface Motion Capture System for Accurate Acquisition of Cloth Deformation
Alexandros Neophytou, Jean-Yves Guillemaut, Adrian Hilton
CVSSP, University of Surrey, Guildford, Surrey, UK #49
- 18:12 Drape of Virtual Garments on Body Models: Impact of Mechanical Properties of the Fabrics
Evrin Buyukaslan^{1,2}, Simona Jevsnik^{1,3}, Fatma Kalaoglu¹
¹ Istanbul Technical University, Textile Technologies and Design Faculty, Turkey;
² Istanbul Bilgi University, Fashion Design Department, Turkey;
³ University of Maribor, Faculty of Mechanical Engineering, Institute of Textile Materials and Design, Slovenia #36
- 18:36 Conversion Technology of Clothing Patterns from 3D Modelling to 2D Templates Based on Individual Point-Cloud
Tingyu Xu, Huanyun Wei, Yue Xin, Longlin Zhang
College of Textile & Garment, Southwest University, Chongqing, China #15

19:00-21:00 Welcome Cocktail**Wednesday 28th October 2015****08:00-09:00 Registration – Welcome Desk****09:00-10:30 Technical Session 7: Medical Applications II – Room C**Session Chair: David Stefan
Novaptus Systems (USA)

- 09:00 Palatal Volume Changes in Unilateral Cleft Lip and Palate Paediatric Patients
Valentina Pucciarelli¹, Luca Pisoni¹, Marcio De Menezes², Ana Maria Ceron-Zapata³, Ana Maria Lopez-Palacio³, Marina Codari¹, Chiarella Sforza¹
¹ Dipartimento di Scienze Biomediche per la Salute, Università degli Studi di Milano, Milano, Italy;
² School of Health Science, State University of Amazonas, Brazil; ³ University CES, Medellin, Colombia #51
- 09:22 High-Speed, High-Precision Scanner Ensemble Enabling 4D-Shape Analyses in Oro-Maxillofacial and Plastic Surgery
R. Höfling¹, M. Schatz¹, P. Aswendt¹, B. G. Lapatki², F. Kilic², J. Radeke²
¹ ViALUX GmbH, Chemnitz, Germany; ² Klinik für Kieferorthopädie, Universitätsklinikum Ulm, Ulm, Germany #05
- 09:45 Low Cost 3D Scanners Along the Design of Lower Limb Prosthesis
Claudio Comotti¹, Giorgio Colombo², Daniele Regazzoni¹, Caterina Rizzi¹, Andrea Vitali¹
¹ University of Bergamo, Dalmine (BG), Italy; ² Politecnico di Milano, Milan, Italy #25
- 10:08 Cooperation in 3D Body Scanning Technologies in Latvia
Aivars Vetra¹¹, Gundars Rusovs¹¹, Andris Abeltins¹², Ilga Urtane¹², Rafaels Joffe², Inga Dabolina²¹, Ausma Vilumsone²¹, Guntis Kulikovskis²², Devijs Zivers³, Didzis Dejus³, Janis Jatnieks³, Edgars Laksa⁴
¹¹ Riga Stradins University, Rehabilitation Faculty, Riga, Latvia; ¹² Riga Stradins University, Institute of Stomatology, Riga, Latvia;
² Riga Technical University, Riga, Latvia; ²¹ Riga Technical University, Institute of Design Technologies, Riga, Latvia;
²² Riga Technical University, Design Factory, Riga, Latvia; ³ Baltic3D, Latvia; ⁴ TechLab, Latvia #70

09:00-10:30 Technical Session 8: Body Scanning Systems II – Room B1Session Chair: Prof. Andrea Giachetti
University of Verona (Italy)

- 09:00 The Potential for Multiple View Geometry in 3D Body Scanning Systems and Applications
Zhiwei Chu
Visbody, Xi'an Saunier Electronic Technology Co. Ltd., Xi'an, China #67
- 09:22 Simple & Secure: Sharing 3D Files Online
Kaye Hope
ShareMy3D AS, Oslo, Norway #66
- 09:45 Bodymetric Applications and Body Scanning by Aicon 3D Systems
Dirk Rieke-Zapp
Aicon 3D Systems GmbH, Meersburg, Germany #07
- 10:08 Unlocking the Body as a Digital Platform and the Rise of Reliable Consumer Scanners
William O'Farrell
Body Labs Inc., New York, NY, USA #65

10:30-11:00 Coffee Break – Foyer

11:00-12:30 Technical Session 9: Digital Anthropometry – Room CSession Chair: Prof. Zoran Anisic
University of Novi Sad (Serbia)

- 11:00 Precise and Automatic Anthropometric Measurement Extraction Using Template Registration
Oliver Wasenmüller, Jan C. Peters, Vladislav Golyanik, Didier Stricker
German Research Center for Artificial Intelligence (DFKI), Kaiserslautern, Germany #19
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- 11:22 Physical Evaluation of an Anthropometric Shape Model of the Human Scalp
Jochen Vleugels¹, Daniël Lacko^{1,2}, Guido De Bruyne¹, Toon Huysmans², Stijn Verwulgen¹
¹ Product Development, Faculty of Design Sciences, University of Antwerp, Antwerp, Belgium
² iMinds-Vision Lab, Department of Physics, Faculty of Science, University of Antwerp, Antwerp, Belgium #23
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- 11:45 3D Scan to Product Design: Methods, Techniques, and Cases
Wonsup Lee¹, Baekhee Lee², Sungho Kim², Hayoung Jung², Eunjin Jeon², Teukgyu Choi³, Heecheon You²
¹ Faculty of Industrial Design Engineering, Delft University of Technology, Delft, The Netherlands;
² Department of Industrial and Management Engineering, Pohang University of Science and Technology, Pohang, Korea;
³ Humanopia Inc., Pohang, Korea, Korea #02
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11:00-12:30 Technical Session 10: RGB-D Sensors & Low Cost Systems – Room B1Session Chair: Harvey Mitchell
University of Newcastle (Australia)

- 11:00 Low-Cost Data-Driven 3D Reconstruction and its Applications
Alfredo Ballester, Eduardo Parrilla, Julio A. Vivas, Ana Pierola, Jordi Uriel, Sergio A. Puigcerver,
Paola Piqueras, Clara Solves-camallonga, Marisol Rodriguez, Juan C. Gonzalez, Sandra Alemany
Instituto de Biomecánica de Valencia (IBV), Universidad Politécnica de Valencia, Valencia, Spain #34
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- 11:22 ReconstructMe SDK: a C API for Real-time 3D Scanning
Christoph Heindl, Harald Bauer, Martin Ankerl, Andreas Pichler
PROFACTOR GmbH, Steyr, Austria #48
-
- 11:45 The Consumer and Professional Synergy and its Impact on the Body Scanning Market
Shabtay Negry
Mantis Vision, Petah Tikva, Israel #61
-
- 12:08 Challenges of Designing a 3D Camera for Mobile Handsets and Tablets
Ian Blasch
Alces Technology, Jackson, WY, USA #69
-

12:30-14:30 Lunch Break**14:30-16:30 Technical Session 11: Scanning Methods & Technologies – Room C**Session Chair: Prof. Dr. Uwe Kloos
Reutlingen University (Germany)

- 14:30 High-Speed Accurate 3D Scanning of Human Motion Sequences
Christian Bräuer-Burchardt¹, Stefan Heist¹, Ingo Schmidt¹, Peter Lutzke¹, Peter Kühmstedt¹, Gunther Notni^{2,1}
¹ Fraunhofer Institute Applied Optics and Precision Engineering, Jena, Germany; ² Technical University Ilmenau, Germany #41
-
- 14:54 Progress in the Adaptation of Shape-from-Shading to Human Body Shape Measurement
Harvey Mitchell
School of Engineering, University of Newcastle, Newcastle, Australia #16
-
- 15:18 Role of Background Subtraction in Creating Human Body Point Clouds from Photographs
Dinu Dragan¹, Srdan Mihic², Zoran Anisic¹, Ivan Lukovic¹
¹ Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia;
² DOOB Innovation Studio DOO Novi Sad, Novi Sad, Serbia #30
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- 15:42 3D Size-Estimation Based on the Geodesic Distance Measured by Photogrammetric Scanning Device
Morteza Daneshmand¹, Andres Traumann¹, Gholamreza Anbarjafari^{1,2}
¹ iCV Group, Institute of Technology, University of Tartu, Tartu, Estonia;
² IMS Lab, Institute of Technology, University of Tartu, Tartu, Estonia #12
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- 16:06 Elasiser - A Low Cost 3D Space Measuring Elastic Tape for Everyone
Konstantin Karavaev
Elasiser, Kirov, Russia #35
-

14:30-16:30 Technical Session 12: Anthropometric Studies & Surveys – Room B1Session Chair: David Stefan
Novaptus Systems (USA)

- 14:30 3D Body Databases of the Spanish Population and its Application to the Apparel industry
Alfredo Ballester, Marta Valero, Beatriz Nacher, Ana Pierola, Paola Piqueras, María Sancho,
Gloria Gargallo, Juan C. Gonzalez, Sandra Alemany
Instituto de Biomecánica de Valencia (IBV), Universidad Politécnica de Valencia, Valencia, Spain #17
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- 14:54 Size NorthAmerica - The New U.S. and Canadian 3D Anthropometric Measurement Survey
Dominik Michel
Human Solutions GmbH, Keiserslautern, Germany #21
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- 15:18 Development of an Anthropometric Database Representing the Singapore Population
Heow Pueh Lee¹, Saurabh Garg¹, Nicolette Chhwa², Frederick Tey²
¹ Department of Mechanical Engineering, National University of Singapore, Singapore;
² Defense Medical & Environmental Research Institute, DSO National Laboratories, Singapore #45
-
- 15:42 Use of 3D Scanning Technologies to Extract Body Measurements for Customised Size Charts
for Predominant African and Caucasian Body Shapes in South Africa
Bukisile P. Makhanya¹, Helena M. de Klerk¹, Amukelani Muthambi¹, Karien Adamski²
¹ Department Consumer Science, University of Pretoria, South Africa; ² Department Statistics, University of Pretoria, South Africa #28
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16:30-17:00 Coffee Break – Foyer**17:00-18:10 Technical Session 13: Body Modeling & Avatars – Room C**Session Chair: Harvey Mitchell
University of Newcastle (Australia)

- 17:00 Digital Cloning for an Increased Feeling of Presence in Collaborative Virtual Reality Environments
Sylvain Chagué, Caecilia Charbonnier
Artanim, Carouge-Geneva, Switzerland #13
-
- 17:22 Evaluation of 3D Body Shape Predictions Based on Features
Femke Danckaers, Toon Huysmans, Daniël Lacko, Jan Sijbers
iMinds Vision Lab, Dept. of Physics, University of Antwerp, Belgium #07
-
- 17:45 A Markerless Method for Personalizing a Digital Human Model from a 3D Body Surface Scan
Georges Beurier, Xiaolin Yao, Yoann Lafon, Xuguang Wang
Université de Lyon, F-69622, Lyon, France; Université Claude Bernard Lyon 1, Villeurbanne;
IFSTTAR, UMR_T9406, LBMC Laboratoire de Biomécanique et Mécanique des Chocs, F69675, Bron, France #56
-

17:00-18:10 Technical Session 14: Body Scanning Assessment & Use – Room B1Session Chair: Prof. Dr. Heow Pueh Lee
National University of Singapore (Singapore)

- 17:00 Lost in Translation? Coping with Multiple Scanner Vendors in a Commercial Environment
David B. Stefan¹, David A. Gilbert²
¹ Novaptus Systems Inc., Chesapeake, VA, USA;
² The Hague Center for Cosmetic and Reconstructive Surgery, Norfolk, VA, USA #11
-
- 17:22 Validity and Repeatability of the SizeStream 3D Scanner and Poikos Modeling System
Tedd E. Vonk¹, Hein A.M. Daanen^{1,2,3}
¹ Create-it applied research & AMFI, University of Applied Sciences, Amsterdam, The Netherlands;
² Faculty of Human Movement Sciences, VU University, Amsterdam, The Netherlands; ³ TNO, Soesterberg, The Netherlands #32
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- 17:45 300 Body Scans in a Year: Data for Lifegraph Solutions
William O. Glascoe III¹, David Bruner²
¹ LifeGraphs LLC, Gaithersburg, MD, USA; ² Size Stream LLC, Cary NC, USA #47
-

18:10-18:25 Closing Session – Room B1

- 18:10 Closing speech and announcements for 3DBST2016 from the conference director
Nicola D'Apuzzo
Hometrica Consulting, Switzerland

List of Exhibitors

Size Stream (USA) – www.sizestream.com

Size Stream is focused on 3D color body scanning, 4D scanning and all related applications requiring high performance, high automation and cost effective solutions. Size Stream products are widely used for research, size prediction and custom fit specification of clothing, body measurement for health and fitness applications and color 3D printing applications.



Shape Analysis (UK) – www.shapeanalysis.com

Shape Analysis is the European distributor for Size Stream and Space Vision scanners and the worldwide exclusive distributor for CAESAR survey data. Shape Analysis services have been used for the national sizing survey in UK and for many other companies involved in fashion, health, fitness, sportswear, medical applications. Shape Analysis is exhibiting at the booth of Size Stream.



Styku (USA) – www.styku.com

The 3D body scanner MyBodee by Styku captures a person's true shape, creates an exact 3D model and extracts hundreds of precise body measurements within seconds using the world's most powerful 3D camera. Turnkey industry extensions are available for clothing, fitness, health, 3D printing, and more.



IBV (Spain) – anthropometry.ibv.org

The Institute of Biomechanics IBV offers novel 3D data treatment tools (automated avatar creation, 3D databases harmonization, shape analysis, virtual tape measurement) and smartphone 3D scanning technologies to support innovative business models based on user anthropometry.



Human Solutions (Germany) – www.human-solutions.com

Human Solutions is a world market leader for body scanning and ergonomics simulation. Systems from Human Solutions are used by more than 300 companies worldwide. 3D body scanning by Human Solutions offers highly accurate method of measurement and allows the integration of size & fit data into various processes at the same time.



VITRONIC (Germany) – www.vitronic.com

With 20 years of experience in the field of body scanning, VITRONIC is among the pioneers of fast, automatic 3D measuring of the human body. VITUS body scanners are used around the world for customized clothing, standardization, ergonomics, orthopedics, sports medicine, printing of 3D figurines.



3dMD (USA/UK) – www.3dmd.com

3dMD is the world leader in 3D body scanning for medical applications, with well more than 1,400 3D cameras worldwide. The ultra-fast high-precision 3D surface imaging devices and the application software will be demonstrated at the exhibition.



ViALUX (Germany) – www.vialux.de

ViALUX 3D Scanners make 3D scanning as easy as taking a photograph. The systems provide both short measuring time and high precision. The mode of operation can be adapted to the measuring task with high flexibility. Applications are wide-spread from medical to industrial.



Aicon 3D Systems (Germany) – www.aicon3d.com

Aicon 3D Systems provide sophisticated 3D scanning solutions for the contact-free, precise acquisition of teeth, skin structures, facial features or even entire bodies. For over 25 years, various areas of science, research and industries have been benefiting from their experience in 3D metrology.



Eotech (France) – www.eotech-sa.com

Eotech offers non-contact 3D measuring solutions for skin research and evaluation of cosmetic products and treatments efficacy. Eotech has developed complete solutions for multi-scaling analysis of the skin relief ranging from pores, fine lines and wrinkles to shape and volume of the face or parts of the body.



TechMed 3D (Canada) – www.techmed3d.com

TechMed 3D is specialized in body measurement technologies and digital imaging solutions adapted to the orthotics, prosthetics and custom equipment market. 3D surface imaging devices and application software will be demonstrated at the exhibition.



Canfield Scientific (USA / The Netherlands) – www.canfieldsci.com

Canfield Scientific is the leading developer of photographic imaging solutions for the medical and skin care industries. Product lines include Mirror imaging software, VISIA Complexion Analysis, VECTRA 3D Systems, Reveal facial imagers, VEOS dermatoscopes, IntelliStudio photographic studio and imaging systems for clinical photography.



4DDynamics (Belgium) – www.4ddynamics.eu

4DDynamics, a technology leader in high-end 3D acquisition algorithms and biometric technologies, is also developer of 3D face and body scanning devices based on this technology. 4DDynamics's body scanning solutions will be demonstrated at the conference exhibition.



ShareMy3D (Norway) – www.sharemy3d.com

ShareMy3D is a cloud-based solution for sharing 3D files of all sizes and formats. It has 2 main advantages: it can handle very large file sizes with its revolutionary compression algorithm and it does not require a plugin or program download, only an internet browser. This enables users to quickly and securely share their 3D models with anyone from anywhere.



Sizzy (France) – www.sizzy.com

Sizzy operates 3D body scanning centers in France. Sizzy's objective is to make choosing the right garment size easy for every customer when he or she wants to shop on-line or buy from a mail order company. Sizzy will feature during the conference at the entrance of the convention center a mobile scanning center fully equipped with 3D body scanners.



List of Sponsors

HOMETRICA CONSULTING (Switzerland) – www.hometrica.ch

Hometrica Consulting - Dr. Nicola D'Apuzzo is organizing the series of 3DBST conferences and exhibitions. Hometrica Consulting is a leading international consulting firm in the sectors of 3D human body scanning technologies.



Body Labs (USA) – www.bodylabs.com

Body Labs delivers the world's most advanced technology for analyzing the human body's shape, pose and motion. Leveraging statistical analysis and computer vision technology, Body Labs unlocks the human body as a digital platform to enable businesses and consumers to customize products and services like never before.

BODY
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LABS

Elasizer (Russia) – www.elasizer.com

Elasizer offers an easy 3D body scanning technology based on a special elastic measuring suit - A compromise between expensive measuring rigs and low cost methods. This solution allows new ways to make a tailor and a customer closer to each other.



SizeGenie (Switzerland) – www.body-cloud.com

Super low cost and foldable body scanner: using an infrared camera, a few sensors and smart software powered by QuantaCorp, SizeGenie (Switzerland) quickly and accurately takes your measurements with the click of mouse. It's online clothes shopping made easy!



Repubblica e Cantone Ticino (Switzerland) – www.copernico.ch

Copernico is a territorial marketing initiative of Canton Ticino which, through the Economic Promotion Office, intends to increase the international stature of Canton Ticino, raise awareness on Ticino's investment opportunities, promote corporate investment and establishment.



Conference Exhibition

Tuesday 9:00 - Wednesday 16:00, Room B2/3

In the parallel exhibition, various manufacturers of equipment will demonstrate live their 3D body scanning systems and software solutions.

Different scanning technologies are represented: laser scanning, white light scanning, passive photogrammetry, etc.

Different systems will be shown: full body scanners, face scanners, modular scanning systems, hand-held scanners and software solutions.

The attendees will have to possibility to test live the systems and to meet and discuss directly with the manufacturers and resellers.



World & International Premieres and Announcements

9 manufacturers will announce/present world premieres at the conference and exhibition.

Styku (USA), 3dMD (UK/USA), Size Stream (USA), VITRONIC (Germany), Sizzly (France), TechMed 3D (Canada), IBV (Spain), Human Solutions (Germany), ViaLux (Germany), 4DDynamics (Belgium) have chosen our conference for announcing, presenting, demonstrating for the first time internationally new developments, new products, new solutions, new results.

More information will be unveiled during the conference.



Welcome Cocktail

Tuesday, 19:00-21:00, Foyer

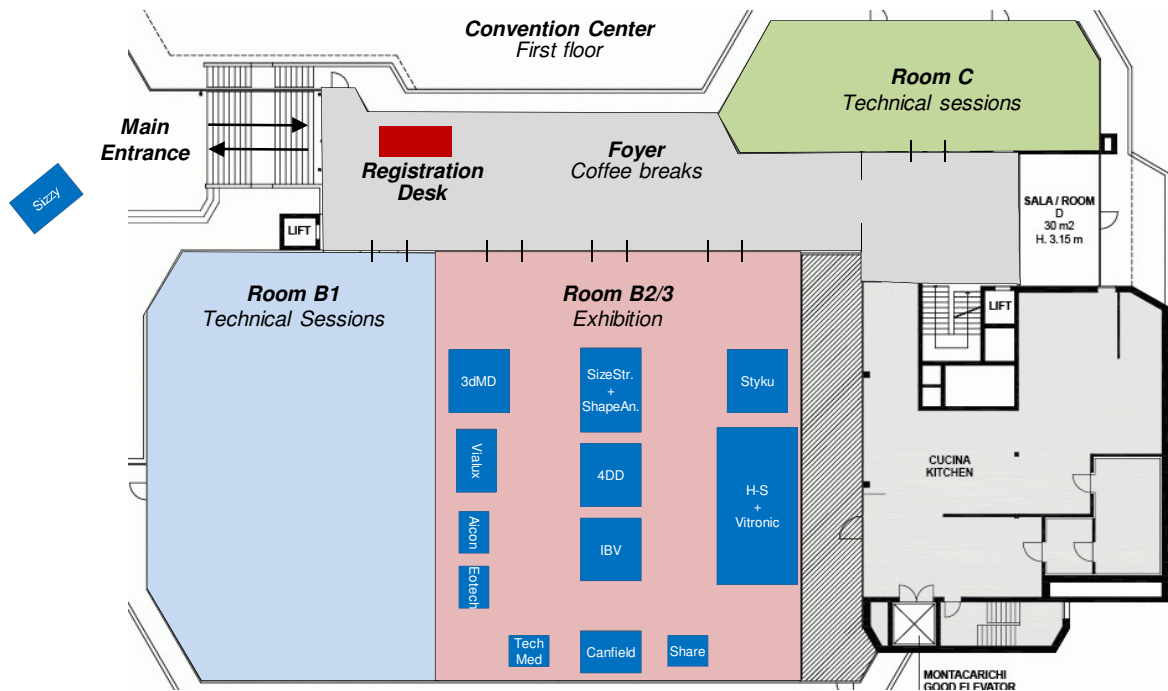
A welcome cocktail with local gastronomy products and wine of the region is offered to all participants at the evening of the first day of the conference.

The welcome cocktail is kindly offered by the organizer Hometrica Consulting.



Convention Center Lugano

The conference and exhibition take place at the 1st floor of the Convention Center



Address: Palazzo dei Congressi, Piazza Indipendenza 4, 6900 Lugano, Switzerland www.luganoconventions.com

