



5th International Conference and Exhibition on
3D Body Scanning Technologies
Lugano, Switzerland, 21-22 October 2014

Program of the

**5th International Conference and Exhibition on
3D Body Scanning Technologies**

Lugano, Switzerland, 21-22 October 2014

Organizer

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



www.hometrica.ch

CONFERENCE PROGRAM



5th International Conference and Exhibition on
3D Body Scanning Technologies
Lugano, Switzerland, 21-22 October 2014

Organized by HOMETRICA CONSULTING · Switzerland

www.3dbodyscanning.org/2014

Program Outline

| 5 th International Conference and Exhibition on 3D Body Scanning Technologies, Lugano, Switzerland, 21-22 October 2014 | | | | | | |
|---|--|---|------------------|--|--|------------------|
| Time | Tuesday 21 th October 2014 | | | Wednesday 22 th October 2014 | | |
| 08:00 | Registration | | Exhibition Setup | Registration | | Exhibition Setup |
| 09:00 | | | | Technical Session 7 3D Scanning to 3D Printing | | |
| 10:00 | Opening Session | | Exhibition | Coffee Break | | Exhibition |
| | Short Break | | | Coffee Break | | |
| 11:00 | Technical Session 1 Medical Applications | Technical Session 2 Body Scanning for Apparel I | | Technical Session 9 Hand Held Scanning Systems | Technical Session 10 Body Scanning Assessment & Use | |
| 12:00 | | | | | | |
| 13:00 | Lunch Break | | | Lunch Break | | |
| 14:00 | | | | | | |
| 15:00 | Technical Session 3 Ergonomics & Product Design | Technical Session 4 Body Scanning Systems | | Technical Session 11 Body Scanning for Sport & Health | Technical Session 12 Body Modeling & Avatars | |
| 16:00 | | | | | | |
| | Coffee Break | | | Coffee Break | | |
| 17:00 | Technical Session 5 3D Scanning in Medicine | Technical Session 6 Anthropometric Studies & Surveys | | Technical Session 13 Scanning with Depth Cameras | Technical Session 14 Body Scanning for Apparel III | |
| 18:00 | | | Closing Session | | | |
| 19:00 | Welcome Cocktail | | | | | |

Conference Office



HOMETRICA CONSULTING - Dr. Nicola D'Apuzzo
Via Collegio 28, CH-6612 Ascona, Switzerland
www.hometrica.ch info@hometrica.ch

Conference website: www.3dbodyscanning.org
Conference email: info@3dbodyscanning.org
Conference phone: +41.91.791.5524

CONFERENCE PROGRAM



5th International Conference and Exhibition on
3D Body Scanning Technologies
Lugano, Switzerland, 21-22 October 2014

Organized by HOMETRICA CONSULTING · Switzerland

www.3dbodyscanning.org/2014

Tuesday 21st October 2014

08:00-09:15 **Registration** – Welcome Desk

09:15-10:15 **Opening Session** – Room B1

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

09:15 Welcome Speech from the Conference Director
Nicola D'Apuzzo
Hometrica Consulting, Switzerland

9:30 World Premieres and First Time Public Announcements at the Conference and Exhibition
C. Lane, 3dMD, UK/USA; D. Bruner, Size Stream, USA; Dr. E. Bertaux Hegemann, Sigvaris, Switzerland;
J. Martini, Vitronic, Germany; A. Preiss, Human-Solutions, Germany, R. Sareem, Styku, USA; J.-F. Lavoie, TechMed 3D, Canada

10:15-10:30 **Short Break**

10:30-12:30 **Technical Session 1: Medical Applications** – Room C

Session Chair: David Stefan
Novaptus Systems (USA)

10:30 FaceSCAN3D – Photorealistic 3D Images for Medical Applications
Stefan Karbacher, Klaus Veit
3D-Shape GmbH, Erlangen-Tennenlohe, Germany #52

10:54 Visualization and Quantification of Female Breast Morphology During Breast Reconstruction
Audrey L. Cheong¹, Gregory P. Reece², Michelle C. Fingeret², Fatima Merchant¹
¹ University of Houston, Houston, TX, USA; ² The University of Texas MD Anderson Cancer Center, Houston, TX, USA #54

11:18 Multi-View 3D Data Fusion for Visualization of the Inframammary Fold in Women with Ptotic Breasts
Lijuan Zhao¹, Gregory P. Reece², Michelle C. Fingeret², Fatima Merchant¹
¹ University of Houston, Houston, TX, USA; ² The University of Texas MD Anderson Cancer Center, Houston, TX, USA #60

11:42 The latest applications of 4D in Medical Projects
Chris Lane
3dMD LLC, Atlanta GA, USA #38

12:06 Establishment of Reference Frame for Sequential Facial Biometrics
L. Zou¹, P. Hao², M. McCarthy³
¹ Barts and The London School of Medicine and Dentistry, QMUL, UK; ² School of Mathematical Science, QMUL, UK;
³ National Physical Laboratory (NPL), UK #23

10:30-12:30 **Technical Session 2: Body Scanning for Apparel I** – Room B1

Session Chair: Prof. Dr. Michael Ernst
Niederrhein University (Germany)

10:30 The Use of 3D Anthropometric Data for Morphotype Analysis to Improve Fit and Grading Techniques – The results
Joris Cools, Alexandra De Raeve, Peter Van Ransbeeck, Simona Vasile, Benjamin Vandersmissen, Mathias Vermeulen
University College Ghent, Faculty of Science and Technology, Ghent, Belgium #17

10:54 The True Height of the Waist: Explorations of Automated Body Scanner Waist Definitions of the TC2 Scanner
Simeon Gill¹, Christopher J. Parker¹, Steve Hayes², Kathryn Brownbridge², Paula Wren², Anastasiia Panchenko²
¹ University of Manchester, School of Materials, Manchester, UK;
² Manchester Metropolitan University, Hollings Faculty, Manchester, UK #18

11:18 Taylormatic: A Flexible Multi-Platform 3D Virtual Product Configurator
Andrea Motta
Nobrandsolution s.r.l. / Motta Alfredo SpA, Cinisello Balsamo, Italy #74

11:42 Applications for 3D Virtual Sampling and Body-Scanning in Fashion Schools and Universities, Apparel Retailers, Brands and Manufacturers
Thierry Moncoutie
LECTRA, Paris, France #02

12:06 Applicability of 3D Garment Prototyping in Assessment of Garment Fit
Agnieszka Cichocka¹, Sylwia Serwatka-Bober², Pascal Bruniaux^{3,4}, Paulina Podlas¹
¹ Lodz University of Technology, Lodz, Poland; ² Nicolaus Copernicus University in Torun, Bydgoszcz, Poland;
³ Ecole Nationale Supérieure des Arts et Industries Textile, Roubaix, France; ⁴ Université Lille Nord de France, Lille, France #32

12:30-14:30 **Lunch Break**

14:30-16:30 Technical Session 3: Ergonomics & Product Design – Room CSession Chair: Prof. Dr. Johan Molenbroek
TU Delft (The Netherlands)

- 14:30 Latest Trends in Sport Equipment Realization - Case History Presentation
Emidio M. Cennerilli, Serena Santoro
EGS S.r.l. Bologna, Italy #58
- 14:54 Ergonomic Design and Evaluation of a Pilot Oxygen Mask for Korea Air Force Pilots
Wonsup Lee¹, Daehan Jung², Seikwon Park², Hee-Eun Kim³, Heecheon You¹
¹ Pohang University of Science and Technology, Pohang, S. Korea; ² Korea Air Force Academy, Cheongwon, S. Korea;
³ Kyungpook National University, Daegu, S. Korea #16
- 15:18 Individualisation of Multifunctional, Concealed Body Armour's Design - Acronym: SECRET
J. Błaszczyk, M.Fejdyś, G. Grabowska, E. Maklewska, M.Struszczyk, D. Zielinska
Institute of Security Technologies MORATEX, Lodz, Poland #21
- 15:42 Development of a Foot Sizing System for Malaysian Women
Shaliza Mohd Shariff^{1,4}, Yii Bonn Bong¹, Asma Ahmad Shariff¹, Makiko Kouchi², Kozo Kimura³, Amir Feisal Merican¹,
Omar bin Mohd Rijal¹, Norliza Mohd Noor⁵
¹ University of Malaya, Kuala Lumpur, Malaysia; ² DHRC, AIST, Tokyo, Japan; ³ I-Ware Laboratory Co., Ltd, Osaka, Japan;
⁴ University Technology MARA, Selangor, Malaysia; ⁵ University of Technology Malaysia, Kuala Lumpur, Malaysia #11
- 16:06 Lights, Camera... Action Figure!
Karl Meyer
3D Systems / Gentle Giant Studios, Burbank CA, USA #73

14:30-16:30 Technical Session 4: Body Scanning Systems – Room B1Session Chair: Dr. Michael McCarthy
National Physical Laboratory (UK)

- 14:30 Enabling Automated 3D Whole Body scanners for Every Individual
David Bruner
Size Stream LLC, Cary NC, USA #01
- 14:54 Google & Styku Partnership: Building Body and Face Scanning with Project Tango
Raj Sareen
Styku LCC, Los Angeles CA, USA #07
- 15:18 Game Changer: Advances in Dense 4D Full Body Motion Capture - The 3dMD-MPI Project Update
Chris Lane
3dMD LCC, Atlanta, GA, USA #37
- 15:42 3D Scanners for Body Shape Metrics
Kohei Ike
SpaceVision Inc., Tokyo, Japan #62
- 16:06 Depth Sensor Technology - A Solution for Whole Body Scanning
Anton Preiss
Human Solutions GmbH, Kaiserslautern, Germany #66

16:30-17:00 Coffee Break – Foyer**17:00-18:30 Technical Session 5: 3D Scanning in Medicine – Room C**Session Chair: Dr. Fatima Merchant
University of Houston (USA)

- 17:00 Latest Trends in Prosthesis Application - Presentation of real case of Total Upper Rehabilitation
Emidio M. Cennerilli, Serena Santoro
EGS S.r.l. Bologna, Italy #57
- 17:22 Laser Based Spatial Spine Curve Determination in Scoliosis
Primož Poredoš¹, Dušan Čelan², Janez Možina¹, Matija Jezeršek¹
¹ University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia;
² University Medical Centre Maribor, Maribor, Slovenia #50
- 17:45 Integrating a 3D body Scanner into an Active Bariatric Surgery Clinic:
Practical Experiences, History, Tips and Pitfalls
David B. Stefan¹, Stephen D. Wohlgemuth^{2,3}, David A. Gilbert⁴
¹ Novaptus Systems Inc., Chesapeake, VA, USA; ² Eastern Virginia Medical School, Norfolk, VA, USA;
³ Sentara Comprehensive Weight Loss Solutions, Norfolk, VA, USA;
⁴ The Hague Center for Cosmetic Surgery, Norfolk, VA, USA #56
- 18:08 3D Scanning in Myofascial Dysfunction Detection
Wojciech Kurzydło¹, Mirosława M. Długosz²
¹ Collegium Medicum at Jagiellonian University, Krakow, Poland;
² AGH University of Science and Technology, Krakow, Poland #71

- 17:00 Data Processing and Analysis for the 2012 Canadian Forces 3D Anthropometric Survey
Chang Shu¹, Pengcheng Xi¹, Allan Keefe², Monica Jones²
¹ National Research Council of Canada, Ottawa, Canada; ² Defence Research and Development Canada, Toronto, Canada #40
-
- 17:22 Establishing a Pre and Post-3D Bodyscanning Survey Process for Able-bodied UK Women Aged 55 Years+ to Determine an Appropriate Waist Position for Garment Development
Paula Wren¹, Simeon Gill², Steven Hayes¹, Phoebe Apeagyei¹
¹ Manchester Metropolitan University, Department of Apparel, Hollings Faculty, Manchester, UK;
² University of Manchester, School of Materials, Manchester, UK #10
-
- 17:45 Three-Dimensional (3D) Anthropometry Study of the Malaysian Population
Yii Bonn Bong, Amir Feisal Merican, Suhaila Azhar, Tahereh Mokhtari, Abdul Majid Mohamed, Asma Ahmad Shariff
University of Malaya, Kuala Lumpur, Malaysia #06

18:30-20:30 **Welcome Cocktail****Wednesday 22nd October 2014**08:00-08:30 **Registration – Welcome Desk**08:30-10:00 **Technical Session 7: 3D Scanning to 3D Printing – Room C**Session Chair: Karl Meyer
3D Systems / Gentle Giant Studios (USA)

- 08:30 An Open Source, Low-Cost, Multi Camera Full-Body 3D Scanner
Richard Garsthagen
3Dmij.nl, Zoetermeer, The Netherlands #45
-
- 08:52 Scan to Print within 5 Minutes – 3D Figurine Production with VITRONIC's Body Scanner VITUS
Julian Martini
VITRONIC Dr.-Ing. Stein Bildverarbeitungssysteme GmbH, Wiesbaden, Germany #53
-
- 09:15 Color Body Scanning for Retail 3D Printing
Dorothy Sylvia
Size Stream LLC, Cary NC, USA #01
-
- 09:38 IIID.me: Single-Click High-Volume 3D Body Scanning Platform
Geert Willems
4DDynamics bvba, Deurne, Belgium #76
-
- 08:30-10:00 **Technical Session 8: Body Scanning for Apparel II – Room B1**
- Session Chair: Prof. Dr. Sybille Krzywinski
TU Dresden (Germany)
- 08:30 Realistic Virtual System "Female Body - Dress" Based on Scanning Technologies
Viktor Kuzmichev¹, Mengna Guo²
¹ Ivanovo State Polytechnic University, Textile Institute, Department of Clothing Design, Ivanovo, Russia;
² Jiang Han University, Design College, Department of Fashion Design and Marketing, Wuhan, Hubei, China #03
-
- 08:52 3D Color Body Scanning for Improved Sample Fit and Accuracy in Garment Design
Andre West, Ashley Gabel
NC State University, College of Textiles, Dept. of Textiles and Apparel, Technology and Management, Raleigh, NC, USA #30
-
- 09:15 Evaluation of Change in Air Gap Underneath the Garment for Various Pro-longed Body Postures Using 3D Body Scanning
Emel Mert^{1,2}, Agnes Psikuta¹, Marie-Ange Bueno², René M. Rossi¹
¹ Laboratory for Protection and Physiology, Empa, St. Gallen, Switzerland; ² Univ. Haute Alsace, Mulhouse, France #13
-
- 09:38 New 3D Scan-Method for Quantification of Discretion; Application to Body-Close Incontinence Protection
Anne Farbrøt¹, Stefan Rosén², Erik Nykvist², Josefine Wihlborg¹
¹ SCA Hygiene Products AB, Global Hygiene Category, Gothenburg, Sweden; ² Toponova Engineering AB, Halmstad, Sweden #63

10:00-10:30 **Coffee Break – Foyer**

10:30-12:30 Technical Session 9: Hand Held Scanning Systems – Room CSession Chair: Dr. James Webster
Oxylane / Decathlon (France)

- 10:30 Measurement of Head-to-Trunk Orientation Using Handheld 3D Optical Apparatus
Urban Pavlovčič, Janez Diaci, Janez Možina, Matija Jezeršek
Faculty of Mechanical Engineering, University of Ljubljana, Ljubljana, Slovenia #51
- 10:54 Handheld 3D Scanning System for In-Vivo Imaging of Skin Cancer
Miguel Ares, Santiago Royo, Meritxell Vilaseca, Jorge A. Herrera, Xana Delpueyo, Ferran Sanabria
CD6, UPC Barcelona Tech, Terrassa, Spain #64
- 11:18 New and Improved Methods to 3D Scan Human Body Extremities Using Referenced Modules
Jean-François Lavoie, Mathieu Lalumière
TechMed 3D Inc., St-Nicolas, QC, Canada #70
- 11:42 3D Facial Capture and It's Future in Retail
Andrew Smith
Fuel3D Technologies Ltd., Oxfordshire, UK #67
- 12:06 Hand-Held Body Scanning Concept Adds a New Dimension to the Process of 3D Image Capture
Michael Boylan, Albert Charpentier, Bob Kutnick, Kent Worsnop
MeAlity, Dartmouth, NS, Canada #65

10:30-12:30 Technical Session 10: Body Scanning Assessment & Use – Room B1Session Chair: Dr. Chang Shu
National Research Council (Canada)

- 10:30 3D-Based Resources Fostering the Analysis, Use, and Exploitation of Available Body Anthropometric Data
Alfredo Ballester, Eduardo Parrilla, Jordi Uriel, Ana Pierola, Sandra Alemany, Beatriz Nacher, Jorge Gonzalez, Juan Carlos Gonzalez
Instituto de Biomecánica de Valencia (IBV), Spain #39
- 10:54 Posture Dependency of 3D-Body Scanning Data for a Virtual Product Development Process in Apparel Industry
Michael Ernst^{1,2}, Ute Detering-Koll¹
¹ Niederrhein Univ. of Applied Sciences, Mönchengladbach, Germany; ² Cape Peninsula Univ. of Applied Sciences, South Africa #35
- 11:18 Practical Considerations of Applying Body Scanning as a Teaching and Research Tool
Simeon Gill¹, Paula Wren², Kathryn Brownbridge², Steve Hayes², Anastasiia Panchenko²
¹ University of Manchester, Manchester, UK; ² Manchester Metropolitan University, Manchester, UK #04
- 11:42 Perception vs Reality: 3D Body Image, Self-Esteem and Vanity Sizing
Marie-Ève Faust¹, Paulette Kaci², Marie-Eve Blackburn³
¹ Philadelphia University, Fashion Merchandising Management, School of Business Administration, Philadelphia, PA, USA;
² Vestechpro, Apparel Research and Innovation Center, Montréal, QC, Canada;
³ ECOBES Recherche et Transfert Cegep de Jonquière, Jonquière, QC, Canada #47
- 12:06 My_Healthy_Shape Guide: An interactive educational-health tool for Malaysian Based on Body Shape
Hasfaliza Tumin, Asma Ahmad Shariff, Amir Feisal Merican
University of Malaya, Kuala Lumpur, Malaysia #12

12:30-14:30 Lunch Break**14:30-16:30 Technical Session 11: Body Scanning for Sport & Health – Room C**Session Chair: Prof. Dr. Heecheon You
POSTECH (South Korea)

- 14:30 Athletic Sizing Based on Performance
Ashley Gabel, Andre West
NC State University, College of Textiles, Department of Textiles and Apparel, Raleigh, NC, USA #31
- 14:54 Kinanthropometry Applications of Depth Camera Based 3D Scanning Systems in Cycling: Repeatability and Agreement with Manual Methods
Alice Bullas, Simon Choppin, Ben Heller, Sean Clarkson, Jon Wheat
Centre for Sports Engineering Research, Sheffield Hallam University, Sheffield, UK #22
- 15:18 Theory and Practical Steps to Introducing a New 3D Public Health Indicator to Replace BMI Using Existing Population-based Multidimensional Reference Sets
David B. Stefan¹, Stephen D. Wohlgenuth^{2,3}, David A. Gilbert⁴
¹ Novaptus Systems Inc., Chesapeake, VA, USA; ² Eastern Virginia Medical School, Norfolk, VA, USA; ³ Sentara Comprehensive Weight Loss Solutions, Norfolk, VA, USA; ⁴ The Hague Center for Cosmetic Surgery, Norfolk, VA, USA #55
- 15:42 Analysis of Body Mass Components in Young Basketball Players
Lj. Efremovska¹, S. Nikolic¹, V. Maleska-Ivanovska¹, J. Pluncevic-Gligorovska¹, L. Todorovska¹, I. Karagjozova¹, E. Ivanovska²
¹ Dept. of Physiology, Medical faculty, Skopje, R. Macedonia; ² PZU Promedica, Medical Prima, Skopje, R. Macedonia #44
- 16:06 Body Mass Components in the Young Soccer Players in R. Macedonia
S. Nikolic, V. Maleska-Ivanovska, Lj. Efremovska, L. Todorovska, J. Pluncevic-Gligorovska, I. Karadgozova
Dept. of Physiology, Medical faculty, Skopje, R. Macedonia #42
- Analyze of Anthropometric Parameters of Soccer Players Aged 14 to 17 Years in R. Macedonia
V. Maleska-Ivanovska, Lj. Efremovska, J. Pluncevic-Gligorovska, L. Todorovska, S. Nikolic, I. Karadgozova
Dept. of Physiology, Medical faculty, Skopje, R. Macedonia #43

14:30-16:30 Technical Session 12: Body Modeling & Avatars – Room B1Session Chair: Dr. Simeon Gill
The University of Manchester (UK)

- 14:30 Obtaining Personal Figure Mannequin Using Two Photographs for Three-Dimensional Corsetry Design
Nadezhda Kornilova, Anna Gorelova, Dmitry Vasilyev
1 Faculty of Fashion Industry, Ivanovo State Polytechnic University, Ivanovo, Russia; 2 IIT Consulting Ltd, Ivanovo, Russia #61
- 14:54 A Pose Invariant Statistical Shape Model for Human Bodies
Matteo Colaianni¹, Michael Zollhöfer¹, Jochen Süßmuth², Bettina Seider², Günther Greiner¹
1 Computer Graphics Group, University Erlangen-Nuremberg, Erlangen, Germany; 2 Adidas Group, Germany #26
- 15:18 Methodology for Transformation of Individual Scan Data into Realistic Animated Human Models
Christine Meixner¹, Sybille Krzywinski²
1 Laloni GmbH, Nussdorf, Switzerland; 2 ITM, TU Dresden, Dresden, Germany #29
- 15:42 Framework of Understanding Somatological Constructs Relative to the Fit of Apparel
Frederick S. Cottle¹, Pamela V. Ulrich², Karla P. Teel²
1 Human Sciences, Middle Tennessee State University, Murfreesboro, TN, USA; 2 Auburn University, USA #28
- 16:06 A 3D Dynamic Database for Unconstrained Face Recognition
Taleb Alashkar¹, Boulbaba Ben Amor¹, Mohamed Daoudi¹, Stefano Berretti²
1 Télécom Lille/LIFL (UMR CNRS/Lille 8022), Villeneuve d'Ascq, France;
2 University of Florence, Florence, Italy #41

16:30-17:00 Coffee Break – Foyer**17:00-18:10 Technical Session 13: 3D Scanning with Depth Cameras – Room C**Session Chair: Dr. James Webster
Oxylane / Decathlon (France)

- 17:00 A Low Cost and Easy to Use Setup for Foot Scanning
C. Lovato, E. Bissolo, N. Lanza, A. Stella, A. Giachetti
Department of Computer Science, University of Verona, Verona, Italy #08
- 17:22 A Validation Study of a Kinect Based Body Imaging (KBI) Devices System Based on ISO 20685:2010
Sara Bragança¹, Miguel Carvalho¹, Bugao Xu², Pedro Arezes¹, Susan Ashdown³
1 University of Minho, Portugal; 2 University of Texas at Austin, USA; 3 Cornell University, USA #49
- 17:45 3D Reconstruction of Body Parts Using RGB-D Sensors: Challenges from a Biomedical Perspective
Pedro Costa^{1,2}, Hooshar Zolfagharnasab^{1,2}, João P. Monteiro², Jaime S. Cardoso^{1,2}, Hélder P. Oliveira²
1 Faculdade de Engenharia, Universidade do Porto, Porto, Portugal; 2 INESC TEC, Porto, Portugal #24

17:00-18:10 Technical Session 14: Body Scanning for Apparel III – Room B1Session Chair: Dr. Andre West
North Carolina State University (USA)

- 17:00 3D Digital Technologies for Virtual Fitting of Garments in Tailor-Made Application
Eric R. Harvey¹, Jocelyn Bellemare², Denis Boulanger¹, Isabelle Lessard³, Philippe Proulx⁴
1 CIMMI, Québec City, QC, Canada; 2 UQAM, Montreal, QC, Canada; 3 Vestechpro, Apparel Research and Innovation Center, Montréal, QC, Canada; 4 Cégep de Sainte-Foy, Quebec City, QC, Canada #59
- 17:22 Virtual Fitting by Single-Shot Body Shape Estimation
Masahiro Sekine¹, Kaoru Sugita¹, Frank Perbet², Björn Stenger², Masashi Nishiyama¹
1 Corporate Research & Development Center, Toshiba Corporation, Japan;
2 Toshiba Research Europe Ltd., Cambridge Research Laboratory, UK #14
- 17:45 The Future of Fit is not in Made-to-Measure but in Made-to-Body
Zorana Kozomara
KOZOMARA / B2G, The Hague, The Netherlands #75

18:10-18:25 Closing Session – Room B1

- 18:10 Closing speech and announcements for 3DBST2015 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. 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 distributors for CAESAR survey data. Shape Analysis has extensive experience in the development and use of 3D capture systems. Shape Analysis will be at the booth of Size Stream.



SIGVARIS (Switzerland) – www.sigvaris.com

SIGVARIS focuses on the development, production and distribution of medical compression garments, including hosiery and socks. At the exhibition of the conference, the new 3D scanning solution of SIGVARIS will be demonstrated at the booth of Size Stream.



SpaceVision (Japan) – www.space-vision.jp

SpaceVision is a leading manufacturer of innovative 3D imaging solutions used in various application fields. At the exhibition of the conference, SpaceVision will demonstrate world's smallest, lightest and fastest 3D body scanner.



VITRONIC (Germany) – www.vitronic.com

VITRONIC, a world leading organization in the field of machine vision, is developer and manufacturer of body scanning systems employed by Human Solutions. At the exhibition, VITRONIC will demonstrate its 3D full body scanner VITUS.



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. Human Solutions will jointly participate at the exhibition with VITRONIC.



Lectra (France) – www.lectra.com

Lectra (France) is the world leader in integrated technology solutions (software, CAD/CAM hardware, services) for industries using textiles to manufacture their products. Lectra will demonstrate apparel pattern-making and grading software solutions with fully-integrated 3D virtual prototyping technology.



Styku (USA) – www.styku.com

Styku is a leader in affordable, portable, and precise body scanning technology. By partnering with Microsoft, Primesense (now Apple) and Google, Styku continues to leverage the latest in 3D depth cameras for clothing, fitness, health, 3D printing and many more applications.



3dMD (USA) – 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.



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.



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.



Breuckmann (Germany) – www.aicon3d.com/breuckmann-scanner

Breuckmann 3D digitization and measuring systems operate on the basis of a patented miniaturized projection technique. Using this contact-free optical scanning technology, even very complex surface structures are captured at a high-level of speed and accuracy.



Fuel 3D Technologies (USA/UK) – www.fuel-3d.com

Fuel 3D Technologies is developer of the affordable handheld 3D scanner Fuel3D that delivers high resolution shape and color capture for a range of 3D modeling applications, such as 3D wound measurement, 3D printing, 3D art, animation and game development.



Atelier3D (Russia) – www.atele3d.ru

Atelier3D provides services on 3D scanning, 3D modeling and 3D printing. Atelier3D is also specialized in the production of exact copies of real persons as small sculptures. Atelier3D will present its services at the exhibition.



LIST OF SPONSORS

HOMETRICA CONSULTING (Switzerland) – www.hometrica.ch

HOMETRICA CONSULTING is organizing the series of 3DBST conferences. Hometrica Consulting is a leading international consulting firm in the sectors related to 3D human body scanning and technologies.



TELMAT Industrie (France) – www.symcad.com

TELMAT Industrie is a world leader in 3D body scanning and automated body measurement. The high-speed 3D digitization process SYMCAD has enabled to scan and measure more than 800'000 individuals nowadays.



3D-A-PORTER (UK) – 3d-a-porter.com

3D-A-PORTER brings fashion brands and manufacturers the strategic 3D solutions they need to stay at the forefront of the Fashion Revolution: from 3D body scanners, through 3D garments, to 3D virtual try-on.



Bodi.Me (UK) – www.bodi.me

Bodi.Me allows fashion shoppers to find their right size. Bodi.Me matches the body with clothing measurements and tells which size to buy. Body measurements are taken manually, by using a webcam or by booking a 3D body scanning slot.



Conference Exhibition

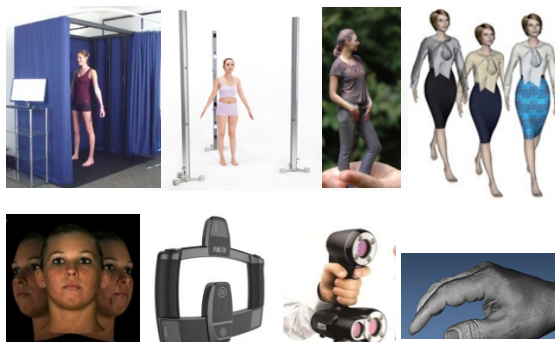
Tuesday 9:00 - Wednesday 16:00, Room B2/3

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.

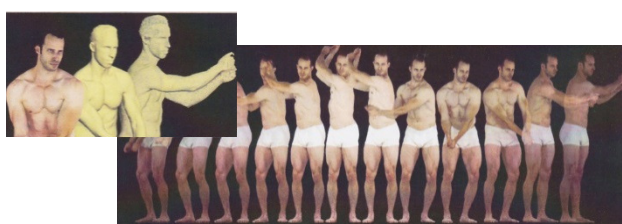


World & International Premieres and Announcements

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

3dMD (UK/USA), Size Stream (USA), Sigvaris (Switzerland), Human-Solutions (Germany), VITRONIC (Germany), Styku (USA), TechMed 3D (Canada), Atelier 3D (Russia) have chosen our conference for announcing, launching, presenting, demonstrating for the first time internationally new developments, new products/solutions, new results.

More information will be unveiled during the conference.



Welcome Cocktail

Tuesday, 18:30-20:30, 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.

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



SUPPORTERS

Repubblica e Cantone Ticino (Switzerland) – www.ti.ch/sviluppo-economico

The Finance and Economics Department of Canton Ticino is supporting the conference. Representatives of the economic promotion office will be present at the conference to illustrate the opportunities offered by the region for new business initiatives.



Lugano Turismo (Switzerland) – www.luganoturismo.ch

The tourist organization of Lugano is supporting the conference. The tourist office provides any tourist information regarding Lugano and surrounding areas.



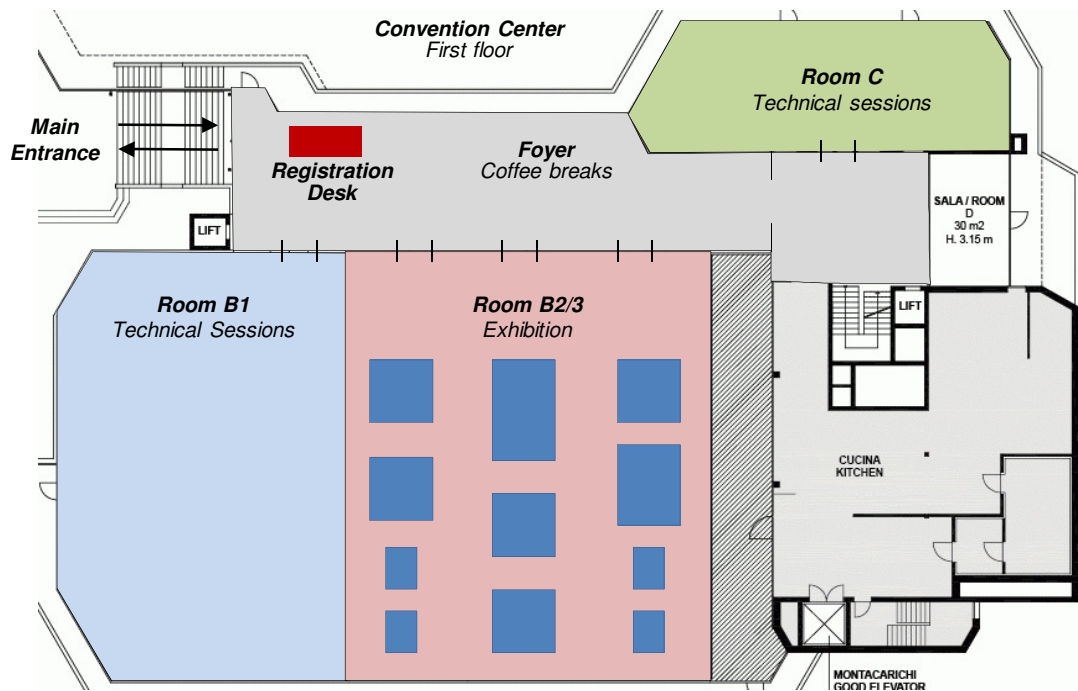
Amiconi Consulting (Switzerland) – www.amiconiconsulting.ch

Amiconi Consulting (Switzerland) www.amiconiconsulting.ch
Amiconi Consulting is supporting the conference. The service company will take care of the hotel reservations for attendees of the conference and provide on request private transportation from and to Milan airports.

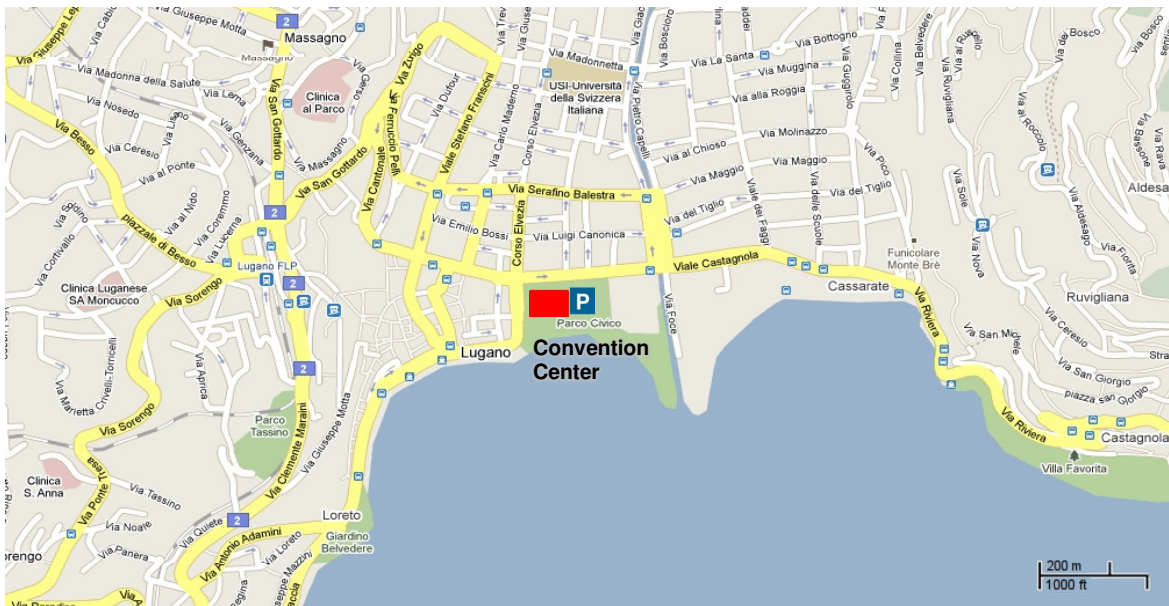


CONVENTION CENTER LUGANO

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



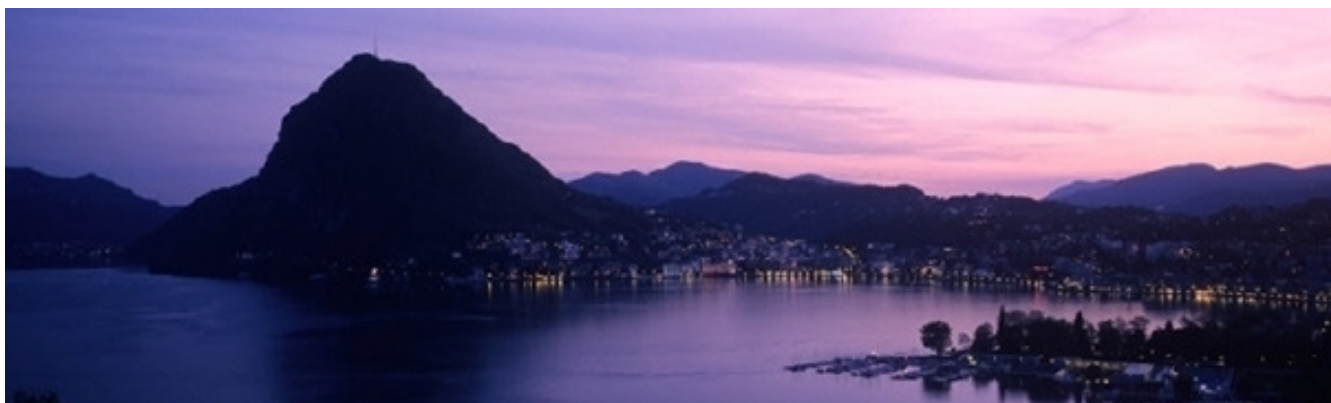
First Announcement - 3D Body Scanning Technologies 2015



6th International Conference and Exhibition on 3D Body Scanning Technologies Lugano, Switzerland, 27-28 October 2015

Organized by HOMETRICA CONSULTING · Switzerland

www.3dbodyscanning.org



6th International Conference and Exhibition on 3D BODY SCANNING TECHNOLOGIES Lugano, Switzerland · 27-28 October 2015

Main conference topics/application sectors

- 3D/4D scanning technologies for body, face, foot, etc.
- Full body scanning for apparel, textile, fashion
- Face, torso and body scanning for medicine
- Foot scanning, custom footwear and orthopedics
- Body scanning for health, fitness and sport
- Digital anthropometry, anthropometric studies and surveys
- Face and body modeling, animation and avatars
- Applications in virtual life, games and entertainment
- 3D face biometrics and applications in security
- 3D face and body scanning for arts, sculpture, 3D printing



Take the opportunity before or after our conference to visit the Universal Exposition EXPO 2015 in Milan, until 31 October 2015.



Conference facts

- Main and largest international event focused on 3D body scanning technologies
- Two full days, 14 technical sessions, 1 poster session, with 60-80 presentations
- Exhibition of equipment on 500m² (extendable) with expected 15-25 exhibitors
- About 200-250 expected attendees at the conference and exhibition
- Strong international character of attendees, authors, participants, exhibitors



CONFERENCE PROGRAM
HTML



FULL CONFERENCE PROGRAM
PDF FILE



BOOK OF ABSTRACTS
PDF FILE