## Conference Program

### 8th 3DBODY.TECH Conference & Expo

Montréal, Québec, Canada · 11-12 October 2017

Organized by HOMETRICA CONSULTING · Switzerland  
www.3dbody.tech/2017

### Program Outline

#### 3DBODY.TECH 2017

8th International Conference and Exhibition on 3D Body Scanning and Processing Technologies  
Montreal, Quebec, Canada, 11-12 October 2017, www.3dbody.tech/2017

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<th>Wednesday 11th October 2017</th>
<th>Thursday 12th October 2017</th>
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<tr>
<td>08:00</td>
<td>Registration</td>
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<td>09:00</td>
<td>Opening Session</td>
<td>Technical Session 7 Anthropometry &amp; Scan Data Processing</td>
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<td>10:00</td>
<td>Coffee Break</td>
<td>Technical Session 8 3D Technologies for Apparel I</td>
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<td>11:00</td>
<td>Technical Session 1 Full Body Scanning in Medicine &amp; Health</td>
<td>Technical Session 9 Medical Applications II</td>
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<td>12:00</td>
<td>Lunch Break</td>
<td>Technical Session 10 3D Full Body Scanning Systems II</td>
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<tr>
<td>13:00</td>
<td>Poster Session &amp; Live Demonstrations</td>
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<td>14:00</td>
<td>Lunch Break</td>
<td>Technical Session 11 3D Technologies for Apparel II</td>
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<tr>
<td>15:00</td>
<td>Technical Session 3 3D Scanning Systems</td>
<td>Technical Session 12 3D Technologies for Apparel II</td>
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<tr>
<td>16:00</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
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<tr>
<td>17:00</td>
<td>Technical Session 5 Medical Applications I</td>
<td>Technical Session 13 Scanning Methods &amp; Technologies</td>
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<tr>
<td>18:00</td>
<td>Technical Session 6 3D Full Body Scanning Systems I</td>
<td>Technical Session 14 3D Body Processing</td>
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### Registration

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### Exhibition Setup

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<tr>
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<td>08:00</td>
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### Technical Sessions

- **Technical Session 1**: Full Body Scanning in Medicine & Health
- **Technical Session 2**: Body Scanning for Apparel I
- **Technical Session 3**: 3D Scanning Systems
- **Technical Session 4**: Body Scanning for Apparel II
- **Technical Session 5**: Medical Applications I
- **Technical Session 6**: 3D Full Body Scanning Systems I
- **Technical Session 7**: Anthropometry & Scan Data Processing
- **Technical Session 8**: 3D Technologies for Apparel I
- **Technical Session 9**: Medical Applications II
- **Technical Session 10**: 3D Full Body Scanning Systems II
- **Technical Session 11**: Body Scanning with Clothes on
- **Technical Session 12**: 3D Technologies for Apparel II
- **Technical Session 13**: Scanning Methods & Technologies
- **Technical Session 14**: 3D Body Processing

### Closing Session

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### 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

Phone in Canada: 438 923-0657 (country code for int. calls: +1)
**CONFERENCE PROGRAM**

**8th 3DBODY.TECH Conference & Expo**
Montréal, Québec, Canada · 11-12 October 2017

Organized by HOMETRICA CONSULTING · Switzerland  
www.3dbody.tech/2017

**Wednesday 11th October 2017**

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

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

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

09:50  Announcements / New Products / Premieres from the Exhibitors  
VITRONIC and VITUS BODYSWAN, Vitrion GmbH, Germany  
3dMDface.t desktop - High Volume Capture of Facial Movements to Support Custom Faceware Products, 3dMD Ltd, Atlanta GA, USA  
The New Size Stream SS20 3D Body Scanner and New Software Tools/Apps, Size Stream LLC, Cary NC, USA  
High Quality Data-Driven 3D Reconstruction - IBV Capabilities, Instituto de Biomecánica de Valencia, Valencia, Spain  
The New Styku S400 3D Full Body Scanner with 4 Intel RealSense Cameras, Styku LLC, Los Angeles CA, USA  
Title n.a., botspot GmbH, Berlin, Germany  
*Other presentations t.b.d.*

10:30-11:00  **Coffee Break** – Foyer

11:00-12:30  **Technical Session 1: Full Body Scanning in Medicine & Health** – Room B

11:00  The Usefulness of a 3D Whole-Body Scanner for Uncommon Cosmetic Surgery Procedures  
David B. STEFAN1, David A. GILBERT2  
1 Novaptus Systems, Inc, Chesapeake VA, USA;  
2 The Hague Plastic and Cosmetic Surgery Center, Norfolk VA, USA #52

11:22  3-D Body Volume Measurements for Cardio-Metabolic Risk Assessment  
Richard BARNES1, Jose MEDINAINOJOSA2  
1 Select Research Ltd, Malvern, UK;  
2 Dept. of Cardiovascular Medicine, Division of Preventive Cardiology, Mayo Clinic, Rochester MN, USA #64

11:45  Exploration of Human Ageing by 3D-Laser Scanning Anthropometry  
Henry LÖFFLER-WIRTH1,2, Alexander FRENZEL1, Markus LOEFFLER1,2,3, Hans BINDER1,2  
1 Interdisciplinary Centre for Bioinformatics, Leipzig University, Leipzig, Germany;  
2 LIFE, Leipzig Research Center for Civilization Diseases; Leipzig University, Leipzig, Germany  
3 Institute for Medical Informatics, Statistics and Epidemiology, Leipzig University, Leipzig, Germany #48

11:00-12:30  **Technical Session 2: Body Scanning for Apparel I** – Room C

11:00  From 3D Scans to Haptic Models: Apparel Design with Half Scale Dress Forms  
Susan P. ASHDOWN1, Arzu VURUSKAN2  
1 Dept. of FSAD, Cornell University, Ithaca NY, USA;  
2 Izmir University of Ecocomics, Izmir, Turkey #54

11:22  From 3D Scan to Branding Journey  
Nathon KONG  
Nathon Kong, Montreal QC, Canada #40

11:45  Not All Body Scanning Measurements Are Valid: Perspectives from Pattern Practice  
Simeon GILL, Maryam AHMED, Christopher J. PARKER, Steven G. HAYES  
The University of Manchester, Manchester, UK #24

12:08  Producing Bespoke Apparel Patterns at Scale Using 3D Scanners and Data Mining  
Marc C. CLOSE  
Bespekify, Hong Kong #01
12:30-13:30  **Poster Session & Live Demonstrations** – Room t.b.d.

12:30  
**Cloud Services for Processing 3D Full Body Scans**
Live Yannick FRANCKEN, Stijn LIGOT  
Demo 3D Body Cloud, Antwerpen, Belgium  #68

12:30  
**Tailor2Go - A Mobile Boutique, Solar-Powered and Fully Integrated with a Built-in 3D Body Scanner**
Live Nathon KONG  
Demo Nathon Kong, Montreal QC, Canada  #40

12:30  
**Structure Sensor - 3D Scanning, Augmented Reality, and More for Mobile Devices**
Live Mark PISZCZOR
Demo Occipital Inc., San Francisco CA, USA  #69

12:30  
**Innovative Applications of Fringe Pattern Projection**
Dong HE1,2, Hailong CHEN1,2, Nan CHENG1, Bo PENG1, Menglong LI1, Kaibing XIANG1, Xiaoli LIU2, Xiang PENG1,2  
1 Shenzhen ESUN Co. Ltd., Shenzhen, China;  
2 College of Optoelectronic Engineering, Shenzhen University, Shenzhen, China  #47

12:30  
**Evaluation of Body Surface Area Formulae Based on 3D Body Scans**
Grzegorz REDLARSKI, Marek KRAWCZUK, Aleksander PALKOWSKI  
Department of Mechatronics and High Voltage Engineering, Gdansk University of Technology, Gdansk, Poland  #15

12:30  
**Application of 3D Whole Body Scanning in Research on Human Body Surface Area**
Grzegorz REDLARSKI, Marek KRAWCZUK, Aleksander PALKOWSKI  
Department of Mechatronics and High Voltage Engineering, Gdansk University of Technology, Gdansk, Poland  #16

12:30  
**Development of Shape Changing Human Body Mannequins: A Case Study**
Hans PRIKŚ  
IMS Lab, Institute of Technology, University of Tartu, Tartu, Estonia  #67

12:30  
**The Study on Fitting Dress’ Comfort of Vocality Performer Based 3D Technology**
Zifei LI, Huanyun WEI, Li ZHOU  
College of Textile & Garment, Southwest University, Chongqing, China  #26

12:30  
**Virtual Garment Intelligent Design**
LinXu PAN1, Huanyun WEI2, Li ZHOU1,2  
1 College of Textile & Garment, Southwest University, Chongqing, China;  
2 Chongqing Biomass Fiber Materials and Modern Textile Engineering Technology Research Center, Chongqing, China  #34

12:30  
**Research on Optimal Efficiency of Data in Pattern Design**
Caisen HUANG, Chunshan DENG, Li ZHOU  
College of Textile & Garment, Southwest University, Chongqing, China  #62

12:30  
**Study of Fashion Accessories Design Based on 3D Printing Technology**
Siyu CHEN, Huanyun WEI, Li ZHOU  
College of Textile & Garment, Southwest University, Chongqing, China  #61

13:30-15:00  **Lunch Break**

15:00-16:30  **Technical Session 3: 3D Scanning Systems** – Room B

15:00  
**Challenges in Measuring Upper Extremities for Medical Applications**
Jean-Pierre GIBEAULT  
Anatomi Metrix, Montreal QC, Canada  #03

15:22  
**Active 3D Imaging Based on White Light Scanning: from Single Sensor to Sensor Networks**
Xiang PENG1,2, Hailong CHEN1,2, Dong HE2, Xiaoli LIU1, Bo PENG2, Nan CHENG2  
1 College of Optoelectronic Engineering, Shenzhen University, Shenzhen, China;  
2 Shenzhen ESUN Co. Ltd., Shenzhen, China  #43

15:45  
**Portable Scanner of a 3D Surface of a Curvilinear Object**
Konstantin KARAVAEV, Maxim TRUPHANOY  
Elasizer, Kirov, Russia  #11
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</table>
| 15:00-16:30 | Technical Session 4:     | **Body Scanning for Apparel II** – Room C                             | Correspondence of Breast Measurements for Bra Design After Reconstruction Surgery  
Krysta M. NICKLAUS1,2, Jevon CHU1, Chi LIU1,3, Greg P. REECE2,  
Fatima A. MERCANTH1, Michelle C. FINGERET2,5, Mia K. MARKEY1,6  
1 Department of Biomedical Engineering, The University of Texas at Austin, Austin TX, USA;  
2 Department of Plastic Surgery, The University of Texas MD Anderson Cancer Center, Houston TX, USA;  
3 Apparel and Art Design College, Xi’an Polytechnic University, Xi’an, P.R. China;  
4 Department of Engineering Technology, University of Houston, Houston TX, USA;  
5 Department of Behavioral Science, The University of Texas MD Anderson Cancer Center, Houston TX, USA;  
6 Department of Imaging Physics, The University of Texas MD Anderson Cancer Center, Houston TX, USA  
15:22 Reimagining Design of Golf Clothing: Addressing the Asymmetrical Pose  
Arzu VURUSKAN1, Susan ASHDOWN2  
1 Izmir University of Economics, Izmir, Turkey;  
2 Cornell University, Ithaca NY, USA  
15:45 Fostering Student Engagement: Participatory and Experiential Pedagogy for 3D Technology Integration  
Caron PHINNEY  
School of Fashion, Ryerson University, Toronto ON, Canada  
16:08 A Method to Develop a Personalized Pattern of Pant from 3D Scanning Data  
Jungqiang SU1, Ying KE1, Bingfei GU2, Caiyuan KUANG3  
1 School of Textile and Clothing, Jiangnan University, Jiangsu, China;  
2 Fashion College, Zhejiang Sci-Tech University, Zhejiang, China;  
3 College of Art, Jinling Institute of Technology, Jiangsu, China  
16:30-17:00 Coffee Break – Foyer
| 17:00-18:30 | Technical Session 5:     | **Medical Applications I** – Room B                                   | Quantitative Analysis of Localized Changes in Breast Shape  
Audrey L. CHEONG1, Gregory P. REECE2, Mia K. MARKEY3,4, Michelle C. FINGERET2,5, Fatima A. MERCANTH1,6  
1 Department of Electrical and Computer Engineering, 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 Biomedical Engineering, The University of Texas at Austin, Austin TX, USA;  
4 Department of Imaging Physics, The University of Texas MD Anderson Cancer Center, Houston TX, USA;  
5 Department of Behavioral Science, The University of Texas MD Anderson Cancer Center, Houston TX, USA;  
6 Department of Engineering Technology, University of Houston, Houston TX, USA  
17:22 3D Body Scanning – An Important Tool for Digital Archiving of Cosmetic Surgery Procedures  
David B. STEFAN1, David A. GILBERT2  
1 Novaptus Systems, Inc. Chesapeake VA, USA;  
2 The Hague Plastic and Cosmetic Surgery Center, Norfolk VA, USA  
17:45 Analysing Single Photographic Images using Shape-From-Shading to Quantify Human Breast Profiles  
Harvey MITCHELL  
School of Engineering, University of Newcastle, Newcastle, Australia  
18:08 Three-Dimensional Stereophotogrammetric Analysis of Adults Affected by Dravet Syndrome  
Valentina PUCCIARELLI1, Elena PIAZZA2,3, Francesca RAGONA2, Daniele GISELLI1,  
Tiziana GRANATA2, Claudia DOLC1, Chiarella SFORZA1  
1 Dipartimento di Scienze Biomediche per la Salute, Università degli Studi di Milano, Milano, Italy;  
2 Dipartimento di Neuroscienze Pediatriche, Istituto Neurologico C. Besta, Milano, Italy;  
3 Dipartimento di Neuropsichiatria Infantile, Istituto Neurologico C. Mondino, Pavia, Italy  
17:00-18:30 Technical Session 6: **3D Full Body Scanning Systems I** – Room C
| 17:00      | Size Stream 3DBODY.TECH  | Size Stream LLC, Cary NC, USA                                        |  
17:22 4D Body Scanners which Support Best of Breed Application Integration Needed in Product Innovation  
Chris LANE  
3dMD Ltd., London/Atlanta GA, UK/USA  
17:45 Bodyscanning as an Enabler for Digital Fashion Process  
Author(s)/Presenter(s) n.a.  
Human Solutions GmbH, Kaiserslautern, Germany  
18:08 Unification Process for Uniforms with Use of 3D Body Scanning  
Łukasz MARKIEWICZ1, Elżbieta MIELICKA2, Gabriel WASLEWSKI3,  
Krzysztof MULARCYZK1, Lidia NAPIERALSKA2, Robert SITNIK1  
1 Warsaw University of Technology, Mechatronics Faculty, Warsaw, Poland;  
2 Textile Research Institute, Knitting and Clothing Research Department, Lodz, Poland;  
3 Medcore Sp. z o.o, Warsaw, Poland  
15:00  Reimagining Design of Golf Clothing: Addressing the Asymmetrical Pose  
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3 Department of Biomedical Engineering, The University of Texas at Austin, Austin TX, USA;  
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1 Dipartimento di Scienze Biomediche per la Salute, Università degli Studi di Milano, Milano, Italy;  
2 Dipartimento di Neuroscienze Pediatriche, Istituto Neurologico C. Besta, Milano, Italy;  
3 Dipartimento di Neuropsichiatria Infantile, Istituto Neurologico C. Mondino, Pavia, Italy  
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Chris LANE  
3dMD Ltd., London/Atlanta GA, UK/USA  
17:45 Bodyscanning as an Enabler for Digital Fashion Process  
Author(s)/Presenter(s) n.a.  
Human Solutions GmbH, Kaiserslautern, Germany  
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Łukasz MARKIEWICZ1, Elżbieta MIELICKA2, Gabriel WASLEWSKI3,  
Krzysztof MULARCYZK1, Lidia NAPIERALSKA2, Robert SITNIK1  
1 Warsaw University of Technology, Mechatronics Faculty, Warsaw, Poland;  
2 Textile Research Institute, Knitting and Clothing Research Department, Lodz, Poland;  
3 Medcore Sp. z o.o, Warsaw, Poland  

Thursday 12th October 2017

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

09:00-10:30  **Technical Session 7: Anthropometry & Scan Data Processing** – Room B

09:00  Automatic Detection of Body Landmarks in Human Body Scans – Lower Limb Analysis for Biomedical and Footwear Applications
Alessandra TURSI, Gregorj KURILLO, Ruzena BAJCSY
University of Berkeley, Berkeley CA, USA #29

09:22  Torso Shape Extraction from 3D Body Scanning Data using Automatic Segmentation Tool
Ola AHMAD1,2, Philippe DEBANNE1,2, Stefan PARENT2, Hubert LABELLE2, Farida CHERIET1,2
1 Polytechnique Montréal, Montreal, Canada;
2 CHU Saint-Justine, Montreal, Canada #23

09:45  3D Bodyscanning as a Tool for Sports Diagnostics and Orthopedics
Author(s)/Presenter(s) n.a.
VITRONIC Dr.-Ing. Stein Bildverarbeitungssysteme GmbH, Wiesbaden, Germany #59

10:08  Segmentation of 3D Full Body Scans for Posture Analysis and Anatomical Interaction
Andrew AUBREY
3dMD Ltd., Atlanta GA, USA #66

09:00-10:30  **Technical Session 8: 3D Technologies for Apparel I** – Room C

09:00  An Exploratory Study of Clothing Fit for Male Consumers: Body Type, Clothing Fit and Anthropometric Scan Data
Osmud RAHMAN, Henry NAVARRO
Ryerson University, Toronto ON, Canada #06

09:22  NATO Research Task Group: 3D Scanning for Clothing Fit and Logistics
Allan KEEFE1, James KUANG2, Hein DAANEN3
1 Defence Research and Development Canada - Toronto Research Centre, Toronto, Canada;
2 Department of National Defence, Canada;
3 Vrije University Amsterdam, Amsterdam, The Netherlands #35

09:45  Online Virtual Fit is not yet Fit for Purpose: An Analysis of Fashion e-Commerce Interfaces
Monika JANUSZKIEWICZ, Christopher J. PARKER, Steven G. HAYES, Simeen GILL
The University of Manchester, Manchester, UK #22

10:08  Fast, Portable and Low-Cost 3D Foot Digitizers: Validity and Reliability of Measurements
Alfredo BALLESTER, Ana PIÉROLA, Eduardo PARRILLA, Mateo IZQUIERDO, Jordi URIEL,
Beatriz NACHER, Vicent ORTIZ, Juan C. GONZÁLEZ, Álvaro F. PAGE, Sandra ALEMANY
Instituto de Biomecánica de Valencia, Universitat Politècnica de València, Valencia, Spain #37

10:30-11:00  **Coffee Break** – Foyer

11:00-12:30  **Technical Session 9: Medical Applications II** – Room B

11:00  Third-Based Facial Similarities and Differences of Monozygotic Twins: A Stereophotogrammetric 3D Assessment
Valentina PUCCHIARELLI1, Daniele GIBELL1, Danilo DE ANGELIS2, Pasquale POPPA2,
Marco CUMMAUDU2, Marina CODARI3, Claudia DOLCI1, Chiarella SFORZA1
Fien BURG2, Saartje DUERINCK2, Jan SIJBERS1, Toon HUYSMANS1
1 Dipartimento di Scienze Biomediche per la Salute, Università degli Studi di Milano, Milano, Italy;
2 LABANOF - Laboratorio di Antropologia e Odontologia Forense, Sezione di Medicina Legale,
Dipartimento di Scienze Biomediche per la Salute, Università degli Studi di Milano, Milano, Italy;
3 Unit of Radiology, IRCCS Policlinico San Donato, San Donato Milanese, Milan, Italy #19

11:22  Three-dimensional Thermal Imaging in Medicine
Adam CHROMY, Ludek ZALUD
CEITEC - Central European Institute of Technology, Brno University of Technology, Brno, Czech Republic #17

11:45  A Survey of Measurement Templates used for Assessing Pre-Operative Body Contours and Evaluating Cosmetic Surgery Results using a 3D Whole-Body Scanner
David B. STEFAN1, David A. GILBERT2
1 Novaptus Systems, Inc. Chesapeake VA, USA;
2 The Hague Plastic and Cosmetic Surgery Center, Norfolk VA, USA #49

12:08  Mirroring Procedures for the Assessment of Asymmetry of Different Anatomical Structures of the Cranium: A Protocol Based on 3D-3D Superimposition
Daniele GIBELL1, Valentina PUCCHIARELLI1, Marina CODARI2, Luca PISONI1, Claudia DOLCI1, Chiarella SFORZA1
1 Dipartimento di Scienze Biomediche per la Salute, Università degli Studi di Milano, Milano, Italy;
2 Unit of Radiology, IRCCS Policlinico San Donato, San Donato Milanese, Milan, Italy #20
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<td>11:00-12:30</td>
<td>Technical Session 10: 3D Full Body Scanning Systems II – Room C</td>
<td>Room C</td>
<td>Styku Insight: Exploring Collaborative Opportunities with Styku’s New API and Analytics Portal</td>
<td>Styku LLC, Los Angeles CA, USA #41</td>
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<td>11:00</td>
<td>Applications for a Laser Triangulated Bodyscanning Solution</td>
<td></td>
<td>VITRONIC Dr.-Ing. Stein Bildverarbeitungssysteme GmbH, Wiesbaden, Germany #58</td>
<td></td>
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<tr>
<td>11:22</td>
<td>Photogrammetry - The Fastest Way to Rebuild the Reality</td>
<td></td>
<td>botspot GmbH, Berlin, Germany #63</td>
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<td>11:45</td>
<td>Towards Automatic Human Body Model Fitting to a 3D Scan</td>
<td></td>
<td>Interdisciplinary Centre for Security, Reliability, and Trust, University of Luxembourg, Luxembourg, Luxembourg; Computer Science department, Faculty of Computers and Informatics, Suez Canal University, Egypt; Artec Europe S.à.r.l., Luxembourg, Luxembourg #51</td>
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<td>11:50</td>
<td>Shape Customisation of Human Subjects Based on Human Parsing Technology</td>
<td></td>
<td>Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hunghom, Hong Kong #36</td>
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<td>12:30-14:00</td>
<td>Lunch Break</td>
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<td>14:00-16:00</td>
<td>Technical Session 11: Body Scanning with Clothes on – Room B</td>
<td>Room B</td>
<td>New Improvements to Millimeter-Wave Body Scanners</td>
<td>Pacific Northwest National Laboratory, Richland WA, USA #45</td>
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<td>14:00</td>
<td>BodiData's Multi-Sensors Handheld 3D Body Scanner</td>
<td></td>
<td>Tuoc LUONG, Albert CHARPENTIER, Michael BOYLAN, Young HARVILL</td>
<td>BodiData Inc., Sunnyvale CA, USA #12</td>
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<tr>
<td>14:24</td>
<td>Towards Automatic Human Body Model Fitting to a 3D Scan</td>
<td></td>
<td>Byoung-Keon D. PARK, Matthew P. REED</td>
<td>University of Michigan, Transportation Research Institute, Ann Arbor MI, USA #09</td>
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<tr>
<td>15:12</td>
<td>A Model-based Approach to Rapid Estimation of Body Shape and Postures Using Low-Cost Depth Cameras</td>
<td></td>
<td>Shuaiyin ZHU, Yanghong ZHOU, P.Y. MOK</td>
<td>Institute of Textiles and Clothing, The Hong Kong Polytechnic University, Hunghom, Hong Kong #36</td>
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<tr>
<td>15:36</td>
<td>Shape Customisation of Human Subjects Based on Human Parsing Technology</td>
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<td>14:00-16:00</td>
<td>Technical Session 12: 3D Technologies for Apparel II – Room C</td>
<td>Room C</td>
<td>The Digital (R)evolution - Solutions to Drive through Tumults Times</td>
<td>Sabrina COVE, EFI Optitex, New York NY, USA #42</td>
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<td>14:00</td>
<td>Slow Adoption of Technology in the Apparel Manufacturing Industry’s Implementation of Mass Customization</td>
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<td>Jocelyn BELLEMARE</td>
<td>University of Quebec in Montreal (UQAM), Department of Management &amp; Technology Management, Montreal QC, Canada #60</td>
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<td>14:48</td>
<td>3D Body Scanning has Suitable Reliability: An Anthropometric Investigation for Garment Construction</td>
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<td>Christopher J. PARKER, Simeon GILL, Steven G. HAYES</td>
<td>The University of Manchester, Manchester, UK #02</td>
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<td>15:12</td>
<td>Panel - Discussion: Retail &amp; 3D Tech: Bridging the Gap</td>
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<td>Stephen CROSSLAND1, Joe DIXON2, Mark PISZCZOR3, Sabrina COVE4, Elizabeth STEFANKA5</td>
<td>Occipital Inc., San Francisco CA, USA; EFI Optitex, New York NY, USA; STEFANKA, Montreal QC, Canada #65</td>
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<td>16:00-16:30</td>
<td>Coffee Break</td>
<td>Foyer</td>
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16:30-18:00  **Technical Session 13: Scanning Methods & Technologies** – Room B

16:30  Deep Learning based Aesthetic Evaluation of State-Of-The-Art 3D Reconstruction Techniques  
Gernot STUEBL, Christoph HEINDL, Harald BAUER, Andreas PICHLER  
PROFACTOR GmbH, Steyr-Gleink, Austria #18

16:52  Design and Development of a Rotary 3D Scanner for Human Body Scanning  
Khaliil KHALILI, Mojtaba ZERAATKAR  
Mechanical Engineering, University of Birjand, Birjand, Iran #08

17:15  Multi-Projector Multi-Camera Structured Light 3D Body Scanner  
Tomislav PETKOVIC1, Tomislav PRIBANIĆ1, Matea ĐONLIĆ1, Nicola D’APUZZO2  
1 University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia;  
2 Hometrica Consulting, Ascona, Switzerland #13

17:38  High Speed Measurement for Handheld 3D Imaging System Based on Triple Epipolar Constraint  
Qijian TANG1, Xiaoli LIU1, Yang YANG1, Chang LIU1, Menglong LIU2, Kaibing XIANG2, Xiang PENG1,2  
1 Key Laboratory of Optoelectronic Devices and Systems of Ministry of Education and Guangdong Province,  
College of Optoelectronic Engineering, Shenzhen University, Shenzhen Guangdong, China;  
2 Shenzhen ESUN Co. Ltd., Shenzhen Guangdong, China #46

16:30-18:00  **Technical Session 14: 3D Body Processing** – Room C

16:30  Working Group Progress for IEEE P3141 - Standard for 3D Body Processing  
Carol MCDONALD1, Luciano OVIEDO2, Alfredo BALLESTER3  
1 Gneiss Concept, Woodinville WA, USA;  
2 Intel, Santa Clara CA, USA;  
3 Instituto de Biomecánica, Universitat Politècnica de València, Valencia, Spain #14

16:52  Statistical Learning of Human Body through Feature Wireframe  
Jida HUANG1, Tsz-Ho KWOK2, Chi ZHOU1  
1 Industrial and Systems Engineering, University at Buffalo, SUNY, Buffalo NY, USA;  
2 Mechanical, Industrial and Aerospace Engineering, Concordia University, Montreal QC, Canada #25

17:15  Body Type Classification of the Three-Dimensional Torso Shape of Japanese Men Aged 20 to 70 Years for Efficient Clothing Design  
Keiko WATANABE  
Kyoto Women's University, Kyoto, Japan #31

17:38  Cloud Services for Processing 3D Full Body Scans  
Yannick FRANCKEN, Stijn LIGOT  
3D Body Cloud, Antwerpen, Belgium #68

18:00-18:15  **Closing Session** – Room B1

18:00  Closing Speech and Announcements for 2018 from the Conference Director  
Nicola D’APUZZO  
Hometrica Consulting, Switzerland

**Conference Venue**

Venue  Plaza Centre-Ville (by Evo Vieux-Montreal), floor level C (2 floors below the lobby)  
777 Blvd. Robert-Bourassa, Montréal QC, H3C 3Z7, Canada,  
[www.plazacentreville.com](http://www.plazacentreville.com)  
Subway station: Square-Victoria-OACI (exit B). Underground parking available