

# CONFERENCE PROGRAM



## 9<sup>th</sup> 3DBODY.TECH Conference & Expo Lugano, Switzerland · 16-17 October 2018

Organized by HOMETRICA CONSULTING · Switzerland

[www.3dbody.tech/2018](http://www.3dbody.tech/2018)

### Program Outline

3DBODY.TECH 2018 9th International Conference and Exhibition on 3D Body Scanning and Processing Technologies Lugano, Switzerland, 16-17 October 2018, <a href="http://www.3dbody.tech/2018">www.3dbody.tech/2018</a>				
Time	Tuesday 16 October 2018		Wednesday 17 October 2018	
08:00	Registration		Registration	
09:00	Opening Session		Exhibition Setup	Exhibition Setup
10:00				
11:00	Coffee Break		Coffee Break	
12:00	Technical Session 1 Medical Applications	Technical Session 2 3D Full Body Scanning I	Technical Session 7 Digital Anthropometry & Ergonomics	Technical Session 8 Full Body Scanning, Measurement & AI
13:00	Lunch Break		Lunch Break	
14:00	Coffee Break		Exhibition	Exhibition
15:00				
16:00	Coffee Break		Coffee Break	
17:00	Coffee Break		Exhibition Breakdown	Exhibition Breakdown
18:00				
19:00	Welcome Cocktail		Technical Session 13 3D Technologies for Apparel	Technical Session 14 Anthropometric Surveys & Studies
			Closing Session	

### Conference Office

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

Via Collegio 28, CH-6612 Ascona, Switzerland

Conference website: [www.3dbody.tech](http://www.3dbody.tech) [info@3dbody.tech](mailto:info@3dbody.tech)

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HOMETRICA CONSULTING - Dr. Nicola D'Apuzzo  
Ascona, Switzerland [www.hometrica.ch](http://www.hometrica.ch)

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## Tuesday 16<sup>th</sup> October 2018

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

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

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  
t.b.d.

10:30-11:10 **Coffee Break** – Foyer

11:10-13:00 **Technical Session 1: Medical Applications** – Room C

11:10 Processing 3D Scans Using Statistical Shape Analysis and Automatic Pose Correction for Subsequent Orthosis Fitting  
Max THALMEIER, Khoi LAM, Max SCHNAUBELT, Felix GUNDLACK  
Mecuris GmbH, Munich, Germany #44

11:32 A New Method for Finding the Shoulder Complex Rotation Centre Using 3D Body Scanning  
S.G. Rozevink 1, I. Kingma 1, D. Spies 2, M.I. Paalman 2, J. Molenbroek 3,  
B. Naagen 3, M. Maas 4, G. Streekstra 4, H.A.M. Daanen 1  
1 Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands;  
2 Yumen Bionics, Amsterdam, The Netherlands; 3 Industrial Design Engineering, Technical University Delft, The Netherlands;  
4 Dept. of Radiology & Nuclear Medicine, Division of Musculoskeletal Radiology,  
Univ. of Amsterdam, Academic Medical Center, The Netherlands #16

11:54 3D Profilometer Combined with Hyperspectral Camera for Simplified Rheumatoid Arthritis Diagnostics  
Urban PAVLOVČIČ 1, Jošt STERGAR 2, Luka ROGELJ 2, Jure KOŠIR 1, Matija JEZERŠEK 1, Matija MILANIČ 2,3  
1 Faculty of Mechanical Engineering, University of Ljubljana, Ljubljana, Slovenia;  
2 Faculty of Mathematics and Physics, University of Ljubljana, Ljubljana, Slovenia;  
3 Jozef Stefan Institute, Ljubljana, Slovenia #47

12:16 Smart Scar Care  
Authors n.a.  
Avalution GmbH, Kaiserslautern, Germany #63

12:38 New Virtual Tool for Accurate Evaluation of Facial Volume  
Rodrigo de Faria Valle DORNELLES, Nivaldo ALONSO  
Department of Plastic Surgery, University of São Paulo, São Paulo, Brazil #27

11:10-13:00 **Technical Session 2: 3D Full Body Scanning I** – Room B1

11:10 Title n.a.  
Mark NEUMANN  
Size Stream LLC, Cary NC, USA #01

11:32 Title n.a.  
Chris LANE  
3dMD Ltd., London / Atlanta GA, UK / USA #06

11:54 BodiData's Patented Kora Scanner and Software System  
Tuoc LUONG  
BodiData Inc., Saratoga CA, USA #12

12:16 Title n.a.  
Alewijn MEDENDORP  
Scanlogics BV, Amsterdam, The Netherlands #18

12:38 Title n.a.  
Patrick FRÖSCHL  
twinster GmbH, Traun, Austria #41

13:00-14:30 **Lunch Break** – Foyer

14:30-16:20 **Technical Session 3: 3D Face & Body Scanning in Medicine** – Room C

- 14:30 Novel 4D Whole Body Scanning Solution and its Medical Application  
Pawel LIBERADZKI, Łukasz MARKIEWICZ, Marcin WITKOWSKI, Robert SITNIK  
Mechatronics Faculty, Warsaw University of Technology, Warsaw, Poland #21
- 
- 14:52 Potential of 3D Surface Imaging for Quantitative Analysis of Fat Grafting  
Audrey L. CHEONG 1, Summer E. HANSON 2, Gregory P. REECE 2, Mia K. MARKEY 3,4, Fatima MERCHANT 1,5  
1 Dep. of Electrical and Computer Engineering, Univ. of Houston, USA; 2 Dep. of Plastic Surgery, The Univ. of Texas MD Anderson Cancer Center, Houston TX, USA; 3 Dep. of Biomedical Engineering, The Univ. of Texas at Austin, USA; 4 Dep. of Imaging Physics, The Univ. of Texas MD Anderson Cancer Center, Houston TX, USA; 5 Dep. of Engineering Technology, Univ. of Houston, USA #57
- 
- 15:14 Challenges with Life Surface Imaging  
Lifong ZOU 1, Robin RICHARD 2, John BLYTHE 3, Nikolaos DONOS 4  
1 The Bioengineering Centre, Bart's and The London School of Medicine and Dentistry, Queen Mary University of London, UK; 2 Cavendish Implants Ltd, London, UK; 3 Bart's and The London Dental Hospital, NHS Trust, UK; 4 Bart's and The London School of Medicine and Dentistry, Queen Mary University of London, UK #22
- 
- 15:36 RhinOnBlender  
Rodrigo de Faria Valle DORNELLES 1, Cícero André da Costa MORAES 2,  
Juan Pablo Borges MARICEVITCH 3, Everton Luis Santos da ROSA 4  
1 Department of Plastic Surgery, Univ. of São Paulo, Brazil; 2 Arc-Team, Cles, Italy;  
3 Hospital da Clínicas, Univ. Federal de Pernambuco, Recife, Brazil; 4 Hospital de Base do Distrito Federal, Brasília, Brasil #28
- 
- 15:58 Why 3D Matters in the Patient Journey  
Jordan MILLS  
MirrorMe3D, New York NY, USA #73

14:30-16:20 **Technical Session 4: 3D Full Body Scanning II** – Room B1

- 14:30 Title n.a.  
Authors n.a.  
VITRONIC Dr.-Ing. Stein Bildverarbeitungssysteme GmbH, Wiesbaden, Germany #37
- 
- 14:52 Title n.a.  
Authors n.a.  
Photuro3D, Tel Aviv, Israel #68
- 
- 15:14 Title n.a.  
Authors n.a.  
botspot GmbH, Berlin, Germany #74
- 
- 15:36 Digital Processing of 3D Full Body Scans for 3D Printing  
Yannick FRANCKEN, Stijn LIGOT  
3D Body Cloud, Antwerpen, Belgium #69
- 
- 15:58 Volumetric Content Live Broadcasting - The Challenges and the Market Use Cases  
Shabtay NEGRY  
Mantis Vision, Petach Tikva, Israel #39

16:20-17:00 **Coffee Break** – Foyer

17:00-19:12 **Technical Session 5: 3D Scanning Systems & Applications** – Room C

- 17:00 Title n.a.  
Michel BABIN  
TechMed 3D Inc., Lévis QC, Canada #03
- 
- 17:22 Title n.a.  
Chris LANE  
3dMD Ltd., London / Atlanta GA, UK / USA #60
- 
- 17:44 Title n.a.  
Xiang ZHOU  
Xi'an Chishine Optoelectronics Technology Co. Ltd., Xi'an, Shaanxi, China #17
- 
- 18:06 Scanning Procedure of Female Torso Using Low-Cost Hand-Held Sense™ 3D Scanner  
Michaela HASSMANN 1, Seraphina STÖGER 1, Jacqueline DASTL 2, Wolfgang KRACH 2  
1 University of Vienna, Vienna, Austria;  
2 CAE Simulation & Solutions GmbH, Vienna, Austria #32
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- 18:28 Title n.a.  
Sergey KLIMENTYEV  
Texel LLC, Moscow, Russia #23
- 
- 18:50 Title n.a.  
Authors n.a.  
DI4D Dimensional Imaging Ltd., Glasgow, Scotland UK #76

**17:00-19:12 Technical Session 6: 3D Body Scanning for Apparel I – Room B1**

- 17:00 The Volumetric Analysis of the Human Body as Starting Point for Clothing Pattern Design  
Slavenka PETRAK, Ivana ŠPELIĆ, Maja MAHNIĆ NAGLIĆ  
Faculty of Textile Technology, University of Zagreb, Zagreb, Croatia #10
- 17:22 Three-Dimensional Quantification of Foundation Garment's Shaping Effects  
Anke KLEPSEK, Angela MAHR-ERHARDT, Simone MORLOCK  
Hohenstein Institut fuer Textilinnovation gGmbH, Boennigheim, Germany #15
- 17:44 The Distribution of Air Gap Thickness and the Contact Area During Alpine Skiing  
Emel MERT 1, Agnes PSIKUTA 1, Ankit JOSHI 1, Marlène ARÉVALO 2, Caecilia CHARBONNIER 3,  
Christiane LUIBLE-BÄR 2, Simon ANNAHEIM 1, Rene M. ROSSI 1  
1 Empa, Swiss Federal Laboratories for Materials Science and Technology, Biomimetic Membranes and Textiles, Switzerland;  
2 Haute Ecole d'Art et de Design Genève, University of Geneva, Switzerland; 3 Artanim Foundation, Geneva, Switzerland #30
- 18:06 3D Digital Anthropometry in Case of Fit and Ergonomics of Army Uniform  
Inga DABOLINA, Eva LAPKOVSKA  
Riga Technical University, Faculty of Material Science and Applied Chemistry, Institute of Design Technologies, Riga, Latvia #26
- 18:28 Best Practice of Body scanning: Optimization of Clothing Processes in Companies and Institutions  
Ulrich BOTZENHARDT  
Avalution GmbH, Kaiserslautern, Germany #61
- 18:50 Measurement Tables for Overweight and Obese Portuguese Children  
Raquel DE CAMPOS 1,2, Miguel Angelo CARVALHO 2, Bugao XU 3  
1 Federal Institute of Rio Grande do Sul, Erechim, Brasil; 2 Univ. of Minho, Portugal; 3 Univ. of North Texas, Danton TX, USA #31

**19:15-21:00 Welcome Cocktail**

**Wednesday 17<sup>th</sup> October 2018**

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

**08:30-10:20 Technical Session 7: Digital Anthropometry & Ergonomics – Room C**

- 08:30 Anthropometric Investigation of Head Measurements for Indian Adults  
Parth SHAH 1, Yan LUXIMON 1, Fang FU 1, Vividh MAKWANA 2  
1 School of Design, The Hong Kong Polytechnic Univ., Hong Kong; 2 Navneet Hi-Tech Hospital and Research Centre, India #19
- 08:52 Designing of Standard-Size Shapes of Heads for Selection from Customized and Mass-Produced Headwear  
Konstantin KARAVAEV, Maxim TRUPHANOV  
Elasizer Srl., Milan, Italy #07
- 09:14 Process Considerations in 3D Hand Anthropometric Data Collection  
Linsey GRIFFIN 1, Susan L. SOKOLOWSKI 2  
1 University of Minnesota, St. Paul MN, USA; 2 University of Oregon, Portland OR, USA #54
- 09:36 RAMSIS Defense / Anthropometric Data for Ergonomic Applications - Benefits for Developing Defense Vehicles  
Hans-Joachim WIRSCHING, Andreas DIVIVIER, Anton PREISS  
Human Solutions GmbH, Kaiserslautern, Germany #64
- 09:58 3D Fit Scanning - Custom Fitting Hockey Skates for All  
Michel BABIN  
TechMed 3D Inc., Lévis QC, Canada #72

**08:30-10:20 Technical Session 8: Full Body Scanning, Measurement & AI – Room B1**

- 08:30 Statistical Model for Human Measurements  
Georgii MOLYBOGA, Ivan MAKEEV  
3DLOOK, San Mateo CA, USA #05
- 08:52 Acquiring Accurate Body Measurements on a Smartphone from Supplied Colored Garments for Online Apparel Purchasing Platforms and E-Retailers  
Sibei XIA, Andre WEST, Cynthia ISTOOK, Jiayin LI  
North Carolina State University, Raleigh, NC, USA #08
- 09:14 Applying Deep-Learning to Reconstruct Accurate 3D Body Maps Using Mobile Phones  
Suran GOONATILAKE 1,2, Mark RANSLEY 1  
1 University College London, London, UK; 2 Bodymetrics, London, UK #52
- 09:36 3D Human Models from 1D, 2D & 3D Inputs: Reliability and Compatibility of Body Measurements  
Alfredo BALLESTER, Ana PIÉROLA, Eduardo PARRILLA, Jordi URIEL,  
Ana V. RUESCAS, Cristina PÉREZ, Juan V. DURÁ, Sandra ALEMANY  
Instituto de Biomecánica de Valencia (IBV), Universitat Politècnica de València, Spain #36
- 09:58 Developing and Deploying Predictive Technologies atop 3D Body Scans  
Greg MOORE  
Fit3D Inc., San Mateo CA, USA #77

10:20-11:00 **Coffee Break** – Foyer

11:00-12:50 **Technical Session 9: 3D Hands & Foot Scanning** – Room C

- 11:00 Current Technology Landscape for Collecting Hand Anthropometric Data  
Susan L. SOKOLOWSKI 1, Linsey GRIFFIN 2, Sandeep CHANDRASEKHAR 1  
1 University of Oregon, Portland OR, USA; 2 University of Minnesota, St. Paul MN, USA #53
- 11:22 Grasping Hand Pose Estimation from RGB Images Using Digital Human Model by Convolutional Neural Network  
Kentaro INO 1, Naoto IENAGA 1, Yuta SUGIURA 1, Hideo SAITO 1, Natsuki MIYATA 2, Mitsunori TADA 2  
1 Keio University, Yokohama, Japan; 2 Digital Human Research Group, Human Informatics Research Institute, National Institute of Advanced Industrial Science and Technology, Tokyo, Japan #20
- 11:44 A Simple 3D Scanning System of the Human Foot Using a Smartphone with a Depth Camera  
Takumi KOBAYASHI 1, Naoto IENAGA 1, Yuta SUGIURA 1, Hideo SAITO 1, Natsuki MIYATA 2, Mitsunori TADA 2  
1 Keio University, Yokohama, Japan; 2 Digital Human Research Group, Human Informatics Research Institute, National Institute of Advanced Industrial Science and Technology, Tokyo, Japan #25
- 12:06 Fast Foot Measurement System Based on 3D Measurement Network  
Qijian TANG 1, Xinyun LIU 1, Chang LIU 1, Xiaoli LIU 1, Menglong LIU 2, Xiang PENG 1,2  
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 #45
- 12:28 The Reliability Of Using The Artec Eva Hand Held 3 Dimensional Scanner on Children's Feet  
Matyas VARGA 1, Stewart C. MORRISON 1, Juliet MCCLYMONT 1, Carina PRICE 2  
1 School of Health Sciences, Univ. of Brighton, Eastbourne, UK; 2 School of Health and Society, Univ. of Salford, UK #71

11:00-12:50 **Technical Session 10: Full Body Scanning & Processing** – Room B1

- 11:00 Working Group Progress for IEEE P3141 - Standard for 3D Body Processing, 2017-2018  
Carol MCDONALD 1, Alfredo BALLESTER 2, Randy K. RANNO 3, Maxim FEDYUKOV 4, Susan SOKOLOWSKI 5  
1 Gneiss Concept, Woodinville WA, USA; 2 Instituto de Biomecánica, Universitat Politècnica de València, Spain;  
3 Silverdraft Supercomputing, Boise ID, USA; 4 Texel Inc., Moscow, Russia; 5 University of Oregon Portland, USA #34
- 11:22 Fitting Close-to-Body Garments with 3D Soft Body Avatars  
Darcy HARRISON 1, Ye FAN 1,2, Egor LARIONOV 1,2, Dinesh K. PAI 1,2  
1 Vital Mechanics Research, Canada; 2 University of British Columbia, Vancouver BC, Canada #35
- 11:44 Title n.a.  
Warren WRIGHT  
Size Stream LLC, Cary NC, USA #59
- 12:06 Web3D Consortium  
Chris LANE  
3dMD Ltd., London / Atlanta GA, UK / USA #66
- 12:28 Consumer Attitudes and Acceptance of 3D Scanning Solutions in Apparel  
Ed GRIBBIN  
Alvanon Inc., New York NY, USA #75

12:50-14:10 **Lunch Break** – Foyer

14:10-16:00 **Technical Session 11: 3D Body Scanning for Health & Sport** – Room C

- 14:10 Breathing Cycle and Posture Affect Magnitude and Anatomic Measurement Site of Waist Girth in Healthy Adults: An Insight from 3D Scanning  
Clinton O. NJOKU 1, Arthur D. STEWART 2  
1 Dep. of Anatomy, Ebonyi State Univ., Abakaliki, Nigeria; 2 School of Health Sciences, Robert Gordon Univ., Aberdeen, UK #04
- 14:32 Prediction of Fat Mass and Validation Using 3D-Whole Body Scanner in Healthy Indian Males  
Robert VARTE, Shweta RAWAT, Inderjeet SINGH, Shilpa CHOUDHARY, Suchitra SINGH, Deepika KAKKAR, Yashmita CHAUDHARY, Usha PANJWANI, Bhuvnesh KUMAR  
Defence Inst. of Physiology and Allied Sciences (DIPAS), Defence Research and Development Organisation (DRDO), Delhi, India #11
- 14:54 Estimating Body Fat from Depth Images: Hand-Crafted Features vs Convolutional Neural Networks  
Marco CARLETTI 1, Marco CRISTANI 1, Valentina CAVEDON 2, Chiara MILANESE 2, Carlo ZANCANARO 2, Andrea GIACHETTI 1  
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 #48
- 15:16 Breast Segmentation Procedure from Upper Body 3D Scans Using Open Source Software Blender  
Michaela HASSMANN 1, Jacqueline DASTL 2, Wolfgang KRACH 2  
1 University of Vienna, Vienna, Austria; 2 CAE Simulation & Solutions GmbH, Vienna, Austria #33
- 15:38 Using the 3D Body Scanner in Elite Sports  
Axel SCHÜLER, Ina FICHTNER, Olaf UEBERSCHÄR  
Institute for Applied Training Science, Leipzig University, Leipzig, Germany #65

14:10-16:00 **Technical Session 12: 3D Body Scanning for Apparel II** – Room B1

- 14:10 Title n.a.  
Marc C. CLOSE  
Bespokify Pte Ltd, Singapore, Singapore #09
- 
- 14:32 Landmarking and Measuring for Critical Body Shape Analysis Targeting Garment Fit  
Emma SCOTT 1, Abu Sadat Muhammad SAYEM 2  
1 Fashion Should Empower Research Group, Vancouver Island BC, Canada;  
2 Manchester Fashion Institute, Manchester Metropolitan University, Manchester, UK #24
- 
- 14:54 Scan to Pattern: How Body Scanning Can Help Transform Traditional Methods of Creating Pattern Blocks  
Simeon GILL, Yuting WANG, Maryam AHMED, Steven G. HAYES, Adrian R. G. HARWOOD, James GILL  
The University of Manchester, Oxford Road, Manchester, UK #51
- 
- 15:16 Efficient Virtual Garment Fit Evaluation Infrastructure based on Synthetic Avatar Target Customer Groups for MtM Application  
Michael ERNST 1, Monika BOEHM 1, Antje CHRISTOPHERSEN 1, Guido HANSEN 2, Ulrich BOTZENHARDT 2, Bettina SEIDER 2, Susanne WAGNER 3  
1 Niederrhein University of Applied Sciences, Germany; 2 Avalution GmbH, Kaiserslautern, Germany;  
3 Assyst GmbH, München, Germany #62
- 
- 15:38 Digitize Your CAD-Processes from the ECommerce Shop to the Marker for the Production  
Stefan GERTSCH  
Gertsch Consulting & Mode Vision, Zofingen, Switzerland #67

16:00-16:30 **Coffee Break** – Foyer

16:30-18:20 **Technical Session 13: 3D Technologies for Apparel** – Room C

- 16:30 Virtual Prototype of Clothing in Academic Environment  
Rachel S. BOLDT, Miguel A. CARVALHO  
Minho University, Department of Textile Engineering, Portugal #56
- 
- 16:52 The Design of Vocal Performance Dress Based on 3D Technology  
Zifei LI, Wei XIONG, Li ZHOU  
College of Textile & Garment, Southwest University, Chongqing, China #40
- 
- 17:14 Study of Fashion Accessories Design Based on 3D Printing Technology  
Siyu CHEN, Zifei LI, Li ZHOU  
College of Textile & Garment, Southwest University, Chongqing, China #55

17:36 *Available*

16:30-18:20 **Technical Session 14: Anthropometric Surveys & Studies** – Room B1

- 16:30 Foot Scanning in UK, USA and China  
Zach ARMITAGE  
SATRA Technology, Kettering, UK #14
- 
- 16:52 Analysis of 1 Million 3D Foot Scans from North America, Europe, Asia and Australia  
Ales JURCA 1,2, Jure ZABKAR 3, Saso DZEROSKI 4,2  
1 Volumental AB, Stockholm, Sweden; 2 Jožef Stefan International Postgraduate School, Ljubljana, Slovenia;  
3 Faculty of Computer and Information Science, Univ. of Ljubljana, Slovenia; 4 Jozef Stefan Institute, Ljubljana, Slovenia #70
- 
- 17:14 3D Digital Anthropometric Study on Chinese Head and Face  
Haining WANG 1, Wenxiu YANG 1, Yang YU 1, Wanrong CHEN 1, Roger BALL 1,2  
1 School of Design, Hunan Univ., Changsha, China; 2 School of Industrial Design, Georgia Inst. of Technology, Atlanta, USA #42
- 
- 17:36 AVALYTICS PORTAL - A New Access Point for Anthropometric Data. Benefits for Data Owners and Data Analysts  
Anke RISSIEK, Tim GUENZEL  
Avalution GmbH, Kaiserslautern, Germany #38
- 
- 17:58 The Anthropometric Study of the Portuguese Population Using the 3D Body Scanning Technology - Its Contribution to the Improvement of Size Tables  
Ana Florinda RAMÔA 1, Ana BARROS 1, José MORGADO 1, Ana Paula DINIS 2  
1 CITEVE - Centro Tecnológico das Indústrias Têxtil e do Vestuário de Portugal, Vila Nova de Famalicão, Portugal;  
2 ATP - Associação Têxtil e Vestuário de Portugal, Vila Nova de Famalicão, Portugal #13

18:20-18:30 **Closing Session** – Room B1

- 18:20 Closing Speech from the Conference Director and Announcements for 3DBODY.TECH 2019:  
*The 10<sup>th</sup> 3DBODY.TECH Conference & Expo will be held on 22-23 Oct. 2019, in Lugano, Switzerland*  
Nicola D'APUZZO  
Hometrica Consulting, Switzerland