<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:00-09:00</td>
<td>Registration – Welcome desk</td>
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<tr>
<td>09:00-10:00</td>
<td>Opening Session – Conference Room</td>
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<td></td>
<td>Welcome speech from the workshop director</td>
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<td></td>
<td>Nicola D’APUZZO</td>
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<td>Hometrica Consulting, Zurich/Ascona, Switzerland</td>
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<td></td>
<td>Body surface deformation modeling for sports garment design</td>
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<td></td>
<td>Masaaki MOCHIMARU, Sang-Il PARK</td>
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<td></td>
<td>a Digital Human Research Center, AIST, Tokyo, Japan</td>
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<td>b Sejong University, Seoul, South Korea</td>
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<td></td>
<td>Latest innovations in 3D and 4D medical simulation technology</td>
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<td></td>
<td>Chris LANE</td>
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<td>3dMD LLC, Atlanta (GA), USA</td>
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<td>10:30-12:00</td>
<td>Technical Session 1: Body Scanning for Apparel I – Room</td>
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<tr>
<td></td>
<td>i-Fashion implementation with 3D body scanning system</td>
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<td>Chang Kyu PARK, Yongsoo Park</td>
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<td>i-Fashion Technology Center, Konkuk University, Seoul, Korea</td>
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<td></td>
<td>iSize - The new international online-portal for size and fit optimization in worldwide markets</td>
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<td>Rainer TRIEB, Anke RISSIEK</td>
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<td>Human Solutions GmbH, Germany</td>
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<td>3D body scanning method for close-fitting garments in sport and medical applications</td>
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<td>Olga TROYNIKOV and E. ASHAYERI</td>
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<td>School of Fashion and Textiles, RMIT University, Brunswick, Australia</td>
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<td>An online fitting simulation system of a garment using 3D body data</td>
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<td>Ran CHOI, Chang-Suk CHO</td>
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<td>Dept. of Digital Convergence, Hanshin University, Gyeonggi-do, Korea</td>
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<td>13:30-15:00</td>
<td>Technical Session 2: Body Scanning for Medicine and Health – Conference Room</td>
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<td>Keynote presentation:</td>
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<td>Three-dimensional imaging for orthodontics and maxillofacial surgery</td>
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<td>Chung How KAU</td>
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<td>Department of Orthodontics and Dentofacial Orthopedics, University of Alabama at Birmingham, USA</td>
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<td>Deploying reconfigurable 3D scanning for complex anatomical measurements</td>
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<td>Chris LANE</td>
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<td>3dMD LLC, Atlanta (GA), USA</td>
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<td></td>
<td>Analysis of foot shape features using multi-dimensional scaling method for classification of foot type in elderly with hallux valgus</td>
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<td>SungHyek KIM</td>
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<td>Health Science University, Yamanashi, Japan</td>
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15:00-15:30 **Coffee Break**

15:30-17:00 **Technical Session 3: 3D Body Modeling and Avatars** – Conference Room

**Automated generation of human models from scan data in anatomically correct postures for rapid development of close-fitting, functional garments (###03)**
Christine MEIXNER, Sybille KRZYWINSKI, Hartmut ROEDEL
ITM - Institut fuer Textilmaschinen und textile Hochleistungswerkstofftechnik, TU Dresden, Germany

**Web-based human body modeling by restricted number of anthropometric data (###18)**
Igor GONCHARENKO a, Heiichi UEKI a, Katsuaki TAKASHIBA a, Masaaki MOCHIMARU b, Makiko KOUCHI c, Satoko USUI c, Masakazu ODAMURA c
a I-Net Corp., Tokyo, Japan
b AIST, Tokyo, Japan
c Nihon Unisys Ltd., Tokyo, Japan

**Body trunk shape estimation from silhouettes by using homologous human body model (###06)**
Shunta SAITO a, Makiko KOCHI b, Masaaki MOCHIMARU b, Yoshimitsu AOKI a
a Keio University, Tokyo, Japan
b Digital Human Research Center, AIST, Tokyo, Japan

**3D Face modeling with passive photogrammetry (###22)**
Lorant SZABO
Pantomat Kft., Budapest, Hungary

17:00-18:30 **Poster Session** – Poster Room

**An analysis of digital 3-D body imaging technology (###12)**
Shu-Hwa LIN, Kelly MAMMEL
Department of Family & Consumer Sciences, University of Hawaii at Manoa, Honolulu, USA

**High-speed human body 3D scanning technique and systems (###26)**
Shota KIYOTA a, Naoki ASADA a, Ryosuke SAGAWA a, Ryo FURUKAWA a, Hiroshi KAWASAKI a, Yasushi YAGI a
a Faculty of Information Science and Biomedical Engineering, Kagoshima University, Japan

**Automatic measurement of body sizes based on depth camera (###02)**
Qiu BO, Ishtiaq Rasool KHAN, Arthur NISWAR
Institute for Infocomm Research (I2R), A-Star, Singapore

**A point-structured geometric approach to foot measurements (###21)**
Ming J. TSAI, Hung W. LEE, Hsueh Y. LUNG
Department of Mechanical Engineering, National Cheng Kung University, Taiwan

**Estimation of center of gravity obtained from 3D whole body scanning anthropometry method (###24)**
Noriko HAKAMADA, Kazuo FUNATO
Nippon Sport Science University, Tokyo, Japan

**Deformation of raw 3D scan surfaces via multi-resolution RBF networks (###09)**
Seung-Yeob BAEK a, Ju-sung Lee a, Kunwoo Lee b
a Human Centered CAD Laboratory, Seoul National University, Korea
b School of Mechanical and Aerospace Engineering, Seoul National University, Korea

**Development of tight-fitting clothing for sport (power) walking by using 3-dimensional data (###05)**
Jae-Hoon JEONG, Jun Woo JO
Korea Research Institute for Fashion Industry, Dong-gu, Daegu, Korea

**3D body scanning technology for virtual design of system "body-clothes" (###23)**
V.E. KUZMICHEV, N.A. SAKHAROVA
Clothes Design Department, GOU VPO “Ivanovo State Textile Academy”, Ivanovo, Russia
Wednesday 20th April 2011

08:30-10:30  Technical Session 4: Body Scanning Systems and Technologies – Conference Room

- Challenges of simple shape-from-shading in body surface measurement (#28)
  Harvey MITCHELL
  Civil, Surveying and Environmental Engineering, University of Newcastle, Australia

- Human body measurement by digital photogrammetry system (#17)
  Nobuo KOCHI, Kazuo KITAMURA, H. WATANABE, M. YAMADA
  TOPCON Corp., Tokyo, Japan

- Real-time 3D content creation of 3D human body using a handheld 3D imager and/or synchronized sensors platform (#33)
  Shabtay NEGRY
  Mantis Vision Ltd., Tel Aviv, Israel

- 3D body scanning by Artic 3D scanner (#14)
  Tomohide IMADA
  DataDesign, Nagoya, Japan

- Shape completion and modeling of 3D foot shape while walking using homologous model fitting (#29)
  Yuji YOSHIDA, Shunta SAITO, Yoshimitsu AOKI, Makiko KOUCHI, Masaaki MOCHIMARU
  a Faculty of Science and Technology, Keio University, Tokyo, Japan
  b Digital Human Research Center, AIST, Tokyo, Japan

10:30-11:00  Coffee Break

11:00-12:30  Technical Session 5: Body Scanning for Apparel II – Conference Room

- 3D body scanning applications in apparel (#37)
  Presenter/author not known yet
  Shangai Yin Science and Technology Co.Ltd., China

- Revolutionising the apparel industry in Thailand (#11)
  Supiya CHAROENSIRIWATH
  National Electronics and Computer Technology Center, Pathumtani, Thailand

- 3-D body measurements using active millimeter wave technology (#06)
  M. F. KARIM, B. LUO, L. C. ONG, I. R. KHAN, and M. CASSIM
  Institute for Infocomm Research (I2R), Singapore

- New generation of the 3D body scanning technology SYMCAD™ (#36)
  Jean-Loup RENNESSON
  TELMAT Industrie SA, France

12:30-13:30  Lunch Break

14:00-15:30  Technical Session 6: Digital Anthropometry and Ergonomics – Conference Room

- Body surface area and body volume measurements in the fields of health and sports sciences (#32)
  Kazuo FUNATO, Noriko HAKAMADA, Hidehiko NAGASHIMA, Chiyoharu HORIGUCHI
  a Laboratory for Human Movement Sciences, Nippon Sport Science University, Yokohama, Japan
  b Hamamatsu Photonics K.K., Japan

- Implementation and analysis of the 2010 size Korea survey project (#31)
  Chang Kyu PARK, Yongsoo PARK
  i-Fashion Technology Center, Konkuk University, Seoul, Korea

- Anthropometric study on chinese head (#04)
  Roger BALL, Yan LUXIMON, Eric CHOW
  Asian Ergonomic Lab, The Hong Kong Polytechnic University, Hong Kong

- ANTHROSCAN - An integrated solution for planning, evaluation and dissemination of 3D scan surveys (#43)
  Jochen BALZULAT, Rainer TRIEB
  Human Solutions GmbH, Germany
15:30-16:00  **Coffee Break**

16:00-17:30  **Technical Session 7: Full Body Scanning** – Conference Room

- **Update on the deployment of 3MD’s modular body scanning system** (#39)
  Chris LANE
  3dMD LLC., Atlanta (GA), USA

- **[TC]²’s full body scanning systems** (#41)
  Presenter/author not known yet
  [TC]² Corp., Cary (NC), USA

- **Web-based human body modeling by restricted number of anthropometric data** (#27)
  Hideyo KAMESHIMA a, Yugi NISHIO a, Yukio SATO b
  a Spacevision, Inc., Japan
  b Keio University, Tokyo, Japan

- **VITUS 3D body scanner** (#42)
  Markus MAURER
  VITRONIC GmbH, Wiesbaden, Germany

17:30-18:30  **Closing Session with Discussion** – Conference Room

- **Closing speech and announcements for 3D Body 2011**
  Nicola D’APUZZO
  Hometrica Consulting, Zurich/Ascona, Switzerland

- **Discussion on validation methods for 3D body scanners**
  Moderator: Masaaki MOCHIMARU
  Digital Human Research Center, AIST, Tokyo, Japan

### Exhibitors and sponsors (preliminary list)

- **3dMD (USA) – www.3dmd.com**
  3dMD is the world leader in 3D body scanning for medical applications, with well more than 800 3D cameras worldwide. The ultra-fast high-precision 3D surface imaging devices and the powerful software application software will be demonstrated at the conference exhibition.

- **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. At the workshop exhibition, Human Solutions will demonstrate full body scanning systems.

- **DataDesign (Japan) – www.datadesign.co.jp**
  DataDesign is a solutions provider specialized in 3D CAD/CAM, 3D scanning, 3D data processing and 3D printing. DataDesign is commercial partner of Artec Group Inc. (USA) and will demonstrate Artec’s 3D scanning equipment at the workshop exhibition.

- **SpaceVision (Japan) – www.spacevision.com**
  SpaceVision is a leading manufacturer of innovative 3D imaging solutions used in various application fields. SpaceVision will demonstrate at the workshop exhibition the world’s smallest, lightest and fastest 3D body scanner.

- **Shanghai Yin Science and Technology (China) – www.yingroup.com**
  Shanghai Yin Science and Technology is market leader in Asia for CAM/CAD/CAS systems. At the exhibition of the workshop, will be demonstrated the new 3D body scan system YIN HY-Scanner310 developed especially for the garment industry.

- **[TC]² (USA) – www.tc2.com**
  [TC]² is a world leader in 3D body scanning hardware and software. [TC]² provides 3D body scanning solutions in apparel, virtual fashion, health/fitness, medical, gaming, and online virtual worlds applications. [TC]²’s body scanning solutions will be presented at the exhibition.

- **TOPCON (Japan) – www.topcon.co.jp**
  TOPCON Corporation is a world leader in positioning equipment and eye care instruments. At the exhibition, TOPCON will demonstrate a 3D body scanning system based on photogrammetric techniques, with instant data acquisition and ability to acquire surface and texture.
Program outline:

Asian Workshop on 3D Body Scanning Technologies, Tokyo, Japan, 19-20 April 2011

Time | Tuesday 19th April 2011 | Wednesday 20th April 2011
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08:00 | Registration | Registration Desk Setup
09:00 | Opening Session HC – DHRC – 3DMD | Technical Session 4 Body Scanning Systems and Technologies
10:00 | Coffee Break | Coffee Break
11:00 | Technical Session 1 Body Scanning for Apparel I | Technical Session 5 Body Scanning for Apparel II
12:00 | Lunch Break | Lunch Break
13:00 | Technical Session 2 Body Scanning for Medicine and Health | Technical Session 6 Digital Anthropometry and Ergonomics
14:00 | Coffee Break | Coffee Break
15:00 | Technical Session 3 3D Body Modeling and Avatars | Technical Session 7 Full Body Scanning
16:00 | Poster Session | Exhibition Breakdown
17:00 | | Closing Session with Discussion Validation of 3D Body Scanners
18:00 | | |

Contact information:

Workshop venue: National Institute of Advanced Industrial Science and Technology (AIST) Waterfront 3F
Digital Human Research Center
2-3-26, Aomi, Koto-ku, Tokyo 135-0064, Japan

Workshop office: HOMEOMETICA CONSULTING - Dr. Nicola D'Apuzzo
Via Collegio 28, CH-6612 Ascona, Switzerland

Workshop website: www.3dbodyscanning.org/asia
Workshop e-mail: asia@3dbodyscanning.org