

Curriculum Vitae

Personal information



Name/Surname

Andrea Giachetti

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Current position (09/2016)

Associate Professor, Department of Computer Science, University of Verona.

Other

He is president of the **Italian chapter of Eurographics association** (www.eg-italy.org)

He is president of **Circolo di Trento di Legambiente** (www.legambientetrento.it)

Previous experiences

2004 - 2010

Scientific consultant at **Centro di Ricerca Sviluppo e Studi Superiori in Sardegna (CRS4)**

2004-2006

Assistant professor in the department of Computer Science of the University of Cagliari

2002-2004

Head of the **"Image processing and physical simulation"** in the Biomedical Application Area of CRS4

1999-2001

Expert researcher at CRS4

1997-1999

Researcher at CRS4

11/96-1/97

Consultant at CNR-ICB, Genova

11-96

Teaching activity in High schools

7/96

Scientific consultant at CRS4 Cagliari

4/93-9/93

Elsag Bailey research fellow

Background

He received the Master Degree in 1993 and the Ph. D. degree in **Physics from the University of Genova, Italy**, in **1997**. Since 1997 he has worked with **CRS4 (Center for Advanced Studies, Research and Development, Sardinia)**, where he has been **head of the Medical Image Processing area** (coordinating a group of 4 people), and key staff of various EU funded projects. His research activity is mainly focused on **Computer Vision, Medical Image Processing, Shape Analysis, Computer Graphics and Human-Computer Interaction**. He is author of more than 100 publications in peer reviewed journals and conference proceedings.

He is also a **qualified Mathematics and Physics teacher for the Secondary School in Italy** (qualification obtained in **Bozen** in 2000).

He attended a professional course on **Imaging in Radiology and RIS-PACS integration** in 2000.

Teaching

He currently holds the course "**Analysis of Images and Volumetric data**" for the Master Degree in Engineering and Computer Science, the course "**Human-Computer interaction**" of the Master Degree in Engineering and Computer Science, the course of "**Computer Graphics**" of the bachelor degree in Computer Science and the course "**Fundamentals of Computer Graphics**" for the Master in Computer Game Development.

In 2016 he also held a Ph.D. course on "**Medial representations for 3D shape analysis**".

He held several courses in the past years at the Universities of Verona (also at the Faculty of Education, and also for doctorate and masters) and at the University of Cagliari.

He was also among the teachers of the tutorial "**Towards the virtual physiological human**" at the Eurographics 2007 conference. He organized the "**First Summer School of the EU Project 3D anatomical human**" held in Pula (CA, Italy) in May 2008.

He is currently supervisor of the Ph.D activity of F.M. Caputo. With prof. Zancanaro he previously co-supervised the Ph.D. thesis of C. Lovato and was co-tutor of the Ph.D activity of B.Podda at the University of Cagliari.

At the University of Verona he supervised 12 Master theses in Computer Science and more than 20 bachelor theses in Computer Science, as well as 3 bachelor and 2 Master theses at the faculty of Education.

He has been supervisor of 3 master theses in Computer Science at the University of Cagliari.

He has been external reviewer for 5 PhD theses (University of Cagliari, University of Venice, University of Genoa, University of Rome-La Sapienza)

Department roles

- He is member of the **Committee (Giunta) of the Department of Computer Science** of UNIVR, of **joint commission (Commissione Paritetica)** and of the **spinoff commission**.
- He has been president of the Spinoff commission of the department of Computer Science, contact person for Quality Evaluation (AVA) for the Master Degree in Engineering and Computer Science, and in the commission for the evaluation of applications for teaching contracts.

Research Projects management and contributions

- He is responsible of the UNIVR unit in the PRIN2015 project **DSurf**: scalable Computational method for 3D printing surfaces
- He is currently co-responsible of the Verona unit of the Horizon 2020 project **Scan4Reco** Grant Agreement No: 665091 [H2020-REFLECTIVE-7-2014] Advanced 3D modelling for accessing and understanding European cultural assets
- He collaborated to the Marie Curie RTN **3D Anatomical Human (MRTN-CT-2006-035763 October 2006 - September 2010)**.
- He has been Technical Project Manager of the European project **AQUATICS**, part of the cluster **EUTIST-M (IST-1999-20226/AQUATICS)**,
- He has been key personnel in the project URBAN (MIUR D. D. 784 Ric. 24/07/2001) aimed at the reconstruction of functional brain models from histological sections, in the project **COHERENT (IST-FP6-510166)**,
- He has been key personnel in the project **ViVa** (Virtual Vascular, Eureka program 1997-99) in the project MedOW (funded by MIUR) and of the project **IERAPSI (IST-1999-12175)**.
- He was in the Cagliari Unit of the PRIN 2006 Tecniche di Indicizzazione e Reperimento di Forme Tridimensionali (3-SHIRT)
- He has been coordinator of a FP7 STREP proposal (**SANDMED**, Virtual Physiological Human) positively evaluated but not funded in 2012.
- He was the head of the Verona unit in another STREP proposal positively scored but not funded (SINEMA).
- He was in the Verona unit in the PRIN 2009 proposal SHAMAN and was the leader of the Verona Unit in the proposal PRIN 2010-2011 ATMAN that passed the first selection but

was not funded.

Research grants

- 72736 Euros for UNIVR unit in **DSurf**: scalable Computational method for 3D printing surfaces
- 379000 Euros together with Claudia Daffara for the Verona Unity of the European Project (RIA Action) **Scan4Reco** [H2020-REFLECTIVE-7-2014] Advanced 3D modelling for accessing and understanding European cultural assets
- Principal Investigator for an industrial-research project named "**Analisi e codifica compatta di video tennistici**" funded by Fondo Sociale Europeo, 24000 Euros, 1 temporary research associate hired (2014)
- Principal Investigator for an industrial-research project named "**Ricostruzione e 3D e analisi della forma del piede per l'industria calzaturiera**" funded by Fondo Sociale Europeo, 24000 Euros, 1 temporary research associate hired (2013)
- 1456 Euros from the University of Verona for the PRIN 2012 proposal ATMAN
- 2903 Euros from University of Verona for the SANDMED 2012 European proposal
- 1500 Euros for a UNIVR-Cooperint type B grant (2013), project **Detection and localization of retinal diseases: analyzing experts' annotations to develop robust automatic techniques.**

Project reviewing

He is an **expert reviewer for the European commission** for evaluation and monitoring of research projects, he is also Member of the Register of Experts of the Italian ministry of University and Scientific Research.

Other roles

- Program chair of **STAG 2017** (Smart Tools and Applications in computer Graphics) Catania September 2017
- **Program chair** of the Eurographics Workshop on **3D Object Retrieval 2016, Lisbon.**
- **Doctoral Consortium Chair CHItaly 2017, Cagliari**
- **Best thesis award chair STAG Smart Tools and Apps for Graphics 2016, Genova.**
- Program chair for the conference **STAG Smart Tools and Apps for Graphics 2014** Cagliari - September 22-23, 2014).
- **Local Chair** of the conference **STAG 2015** (Smart Tools and Applications in computer Graphics, Verona, 15-16/10 2015)
- Co-organizer of **Eurographics Italian Chapter Conference 2009**, Verona
- **Associate editor** of Computers and Graphics for special issue on STAG 2015 and of Journal of Graphics Tools for special issue on STAG 2014.
- Member of the editorial committee of the journal ISRN Signal Processing
- **Program committee member** of the following conferences: Eurographics CGH 2016, STAG 2016, 2015, 2014, Eurographics Workshop on 3D Object Retrieval 2015, 3D Body Scanning Technologies 2012-2016, AVSS2013, NORDIA 2012, IARIA-ICDT 2009-2013, HSI2010 track on Human Machine Interaction, 3D Physiological Human 2009, 3D Physiological Human 2008.
- **Contests organization.** He organized the contest on **Retrieval of Human Subjects from Depth Sensor Data** within the Eurographics Workshop on 3D Object Retrieval 2016. He organized the contest on **Retrieval of nonrigid and textured shapes from low quality scans** within the Eurographics Workshop on 3D Object Retrieval 2015. He organized the contest on **Automatic Location of Landmarks used in Manual Anthropometry** within the Eurographics Workshop on 3D Object Retrieval 2014.
- **Schools organization.** He organized the "**First Summer School of the EU Project 3D anatomical human**" in Pula (CA) in May 2008.

- **Reviewing.** He served as a reviewer for the journals:

Medical Image Analysis, Journal on Computing and Cultural Heritage, Image and Vision Computing, IEEE Transactions on Image Processing, IEEE Transactions on Medical Imaging, IEEE Transactions on Biomedical Engineering, Computer Graphics Forum, Pattern Recognition Letters, Computer Vision and Image Understanding, Plos ONE, Computers and Graphics, IEEE Journal of Biomedical and Health Informatics, Journal of Visual Communication and Image Representation, Artificial Intelligence in Medicine, IEEE Transactions on circuits and systems for video technology, Computer Methods and Programs in Biomedicine, Signal, Image and Video Processing; Computer-Aided Design; International Journal of Biomedical Imaging, Computers in Biology and Medicine, Journal of Medical and Biological Engineering, IET Image Processing, Parallel Computing, ETRI Journal, EURASIP Journal on Image and Video Processing, ELCVIA, CAIM Journal, 3D Research, Image Communication

and for the conferences:

MICCAI 2016, British Machine Vision Conference 2011-2016, BMVC 2005-2007, ICIAP 2015, ACM Siggraph 2005, VRYPHYS 2005, SPBG 2006, IASTED CGIM 2007, 3D Physiological Human 2008, 2009.

- **Memberships** He is member of Eurographics and GIRPR

Visiting experiences

Feb-March 2014 University of Dundee (UK), CVIP group (prof. E.Trucco) 1 month

Invited talks

- Robust methods for shape analysis - University of Lugano (2012)
- 3D shape analysis methods and applications (2014) - University of Dundee
- Processing human 3D models and extracting measurements for indirect body fat estimation - Robert Gordon University, Aberdeen (2014)
- 3D shape analysis methods and applications IMATI - Genova (2015)
- 3D shape analysis methods and applications IIT - Genova (2016)

Research topics

Shape analysis He is developing methods for salient points recognition, skeleton extraction and segmentation of 3D models, with relevant applications on anthropometric studies [B45,B47,B48,B53,B56]. In particular he developed method to characterize radial (spherical and cylindrical) symmetries in 3D models [A17], useful also to compute shape signatures and a novel graph-based shape characterization method [A26]. He also worked on algorithms for curve skeleton estimation, [B47,B65], pose estimation, salient points and global shape characterization [B45,B47,B48,B53,B56,B67,B68,B69,A25,A26, A27]. Mathematical tools applied for these tasks are, related to spectral analysis on the Riemannian manifold, graph encoding of shapes, and graph matching. He organized three shape retrieval contests in the framework of the Eurographics 3D object retrieval workshops.

Analysis of Cultural Heritage objects and materials In the framework of the EU project Scan4Reco he is developing acquisition and processing methods to characterize appearance of materials used in artworks. In particular reflectance capture and modelling using multiple and multispectral illumination are investigated, also coupled with high resolution geometry capture (optical microprofilometry). He developed processing methods for RTI (Reflectance Transform Imaging) stacks. [B81,B80,B74,B63]

Human-Computer interaction He is currently starting a research activity aimed at developing novel gestural interaction paradigms for interaction in immersive virtual reality (particularly manipulation) [B76,B79]. This research is carried on in collaboration with the University of Lisbon and University of Cagliari.

Medical segmentation and 3D model reconstruction He worked in several projects in tasks related to the reconstruction of 3D organ models from medical datasets [A4, A8, B29]. He is currently involved in the VAMPIRE project [B53,B54,B56,B57], lead by the University of and developing software tool for retinal image analysis.

Image Processing He developed artifact free 2D and 3D image interpolation methods. The ICBI algorithm is quite popular and the implementations available on the site www.andreagiachetti.it have been downloaded more than 500 times [A16, B42, B43]. He developed texture analysis methods applied to medical images for classification and segmentation of tissues [B33,B36].

Visualization and interaction He worked in projects employing light-field displays to create 3D visualization [A3,B6,B8], and developed a gesture based interface for the interaction with 3D models [B40]. He worked on rich sed visualization for medical applications and neurophysiological studies [A14].

Surgical simulation He contributed to the activity of research projects developing surgical simulation through integration of tissue classification into the interaction framework [A9]

Medical data management and PACS systems He worked in the development of systems for the handling of medical information in hospitals, testing DICOM connection, supporting connectivity and data interchange in different application, also web based [B8,B11].

Blood flow simulation He worked in projects aimed at the simulation of blood flow inside vessels, not only reconstructing patient specific vascular models but also working with commercial simulators and tetrahedral mesh builders [A5,B9].

Computer Vision He has a large experience on motion analysis (e.g. development of optical flow estimation algorithms [A6,C7] and motion parameters estimation technique [A2]) applying the techniques developed to several practical applications, like road sequences interpretation for autonomous vehicles [A3,C6], tracking in medical images [A4], biological tissues analysis [A7], satellite images analysis [A11].

Public codes

Demo codes of selected works are available at the web site www.andreagiachetti.it. In particular, the Matlab, C and CUDA implementation of ICBI upscaling code and the c++ code for the estimation of Multiscale Area Projection Transform.

Publications list

Journal Papers

- A29)** A Giachetti, I Ciortan, C Daffara, G Marchioro, R Pintus, E Gobbetti **A Novel Framework for Highlight Reflectance Transformation Imaging** Computer Vision and Image Understanding (online first 2017)
- A28)** S Biasotti, A Giachetti, M Tarini **Foreword to the Special Section on Smart Tools and Applications in Computer Graphics 2015** Computers & Graphics 60, A3-A4
- A27)** Giachetti A, Isaia L. Garro, V **Multiscale descriptors and metric learning for human body shape retrieval** The Visual Computer 32(6-8): 693-703 (2016)
- A26)** Garro, V., Giachetti, A., **Scale space graph representation and kernel matching for non rigid and textured 3D shape retrieval** «IEEE Transactions on Pattern Analysis and Machine Intelligence» 38(6): 1258-1271 (2016)
- A25)** David Pickup, Xianfang Sun, Paul L. Rosin, Ralph R. Martin, Z. Cheng, Zhouhui Lian, Masaki Aono, A. Ben Hamza, Alexander M. Bronstein, Michael M. Bronstein, S. Bu, Umberto Castellani, S. Cheng, Valeria Garro, Andrea Giachetti, Afzal Godil, Luca Isaia, J. Han, Henry Johan, L. Lai, Bo Li, C. Li, H. Li, Roe Litman, X. Liu, Z. Liu, Y. Lu, L. Sun, Gary K. L. Tam, Atsushi Tatsuma, J. Ye: **Shape Retrieval of Non-rigid 3D Human Models**. International Journal of Computer Vision 120(2): 169-193 (2016)
- A24)** Biasotti, S.; Cerri, A.; Aono, M.; Hamza, A. Ben; Garro, V.; Giachetti, A.; Giorgi, D.; Godil, A.; Li, C.; Sanada, C.; Spagnuolo, M.; Tatsuma, A.; Velasco-Forero, S., **Retrieval and classification methods for textured 3D models: a comparative study** «THE VISUAL COMPUTER», Volume 32, Issue 2, pp 217-241, 2016
- A23)** Asuni, Nicola; Giachetti, Andrea, **TESTIMAGES: A Large Data Archive For Display and Algorithm Testing** «JOURNAL OF GRAPHICS TOOLS», vol. 17 , n. 4 , 2013 , pp. 113-125
- A22)** Giachetti A, Lovato C, Piscitelli F, Milanese C, Zancanaro C, **Robust automatic measurement of 3D scanned models for human body fat estimation**. «IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS», 19 (2), 660-667 (2015)
- A21)** Andrea Giachetti, Lucia Ballerini, Emanuele Trucco, **Accurate and reliable segmentation of the optic disc in digital fundus images** «JOURNAL OF MEDICAL IMAGING», vol. 1 , n. 2 , 2014, pp. 1-11, SPIE
- A20)** Christian Lovato, Umberto Castellani, Carlo Zancanaro, Andrea Giachetti, **Automatic labelling of anatomical landmarks on 3D body scans** «GRAPHICAL MODELS», vol. 76 , 2014, pp. 648-657 Elsevier
- A19)** C Milanese, A Giachetti, V Cavedon, F Piscitelli, C Zancanaro **Digital three-dimensional anthropometry detection of exercise-induced fat mass reduction in obese women**, Sport Sciences for Health, 2014, pp. 1-5 Elsevier.
- A18)** A. Giachetti, L. Ballerini, E. Trucco, P.J. Wilson, **The use of radial symmetry to localize retinal landmarks** «COMPUTERIZED MEDICAL IMAGING AND GRAPHICS», vol. 37 , n. 5-6 , 2013, pp. 369-376, Elsevier.
- A17)** Andrea Giachetti, Christian Lovato **Radial Symmetry Detection and Shape Characterization with the Multiscale Area Projection Transform**. COMPUTER GRAPHICS FORUM, vol. 31, p. 1669-1678, ISSN: 0167-7055, doi: 10.1111/j.1467-8659.2012.03172.x (2012) Blackwell Publishing
- A16)** Giachetti, A. Asuni, N. **Real-Time Artifact-Free Image Upscaling** IEEE Transactions on Image Processing, Volume 20, Number 10, pp. 2760 - 2768 Oct. 2011 IEEE Computer Society Press
- A15)** M. Agus, F. Bettio, A. Giachetti, E. Gobbetti, J.A. Iglesias Guitián, F. Marton, J. Nilsson, and G. Pintore. **An interactive 3D medical visualization system based on a light field display**. The Visual Computer, 25, 2009.
- A14)** R. Mongeau, M.A. Casu, L. Pani, G. Pillolla, L. Lianas, A. Giachetti, **Building a virtual archive using brain architecture and Web 3D to deliver neuropsychopharmacology content over the Internet**. Comp. methods and programs in biomedicine, Elsevier, 90(2):124-36, (2008)
- A13)** A. Giachetti and G. Zanetti, **Vascular Modeling from Volumetric Diagnostic Data: A Review** Current Medical Imaging Reviews Volume 2, Number 4, November 2006 pp. 415-423
- A12)** E. Neri, I. Bargellini, M.l Rieger, A. Giachetti, C. Vignali, M. Tuveri, W. Jaschke, C. Bartolozzi. **Abdominal aortic aneurysms: virtual imaging and analysis through a remote web server**. European Radiology, Volume 15, Number 2, pp. 348 – 352, Feb.2005 Springer Verlag
- A11)** P.Boi, M. Marrocu, A.Giachetti, **Rainfall estimation from infrared data using an improved version of the Auto-Estimator Technique** Int. J. on Remote Sensing, 25.: 21, 4657–4673 (2004), Taylor&Francis
- A10)** M. Agus, A. Giachetti, E. Gobbetti, G.Zanetti, and A. Zorcolo, **Real-time Haptic and Visual Simulation of Bone Dissection**, Presence: Teleoperators and Virtual Environments, 12:1, 110-122 (2003) MIT Press
- A9)** A. Giachetti, M. Tuveri and G. Zanetti, **Reconstruction and Web Distribution of Measurable Arterial Models** Medical Image Analysis, 7,1:79-93 March 2003, Elsevier
- A8)** M. Agus, A. Giachetti, E. Gobbetti, G. Zanetti, A.Zorcolo. **A multiprocessor decoupled system for the simulation of temporal bone surgery**. Computing and Visualization in science, vol. 5 n. 1, pp. 35-43, 2002, Springer

- A7)** D. Zoccolan, A. Giachetti and V. Torre, **The use of Videomicroscopy and Computer Vision to monitor muscle contraction.** J. Neuroscience Methods 180 65-80 (2001), Elsevier Science B V
- A6)** A. Giachetti, **"Matching Techniques to compute Image Motion"** Image and Vision Computing,18:3 245-258(2000) Elsevier Science, NL
- A5)** G..Abdulaev, S.Cadeddu, G.DeLussu, M.Donizelli, L.Formaggia, A. Giachetti, E.Gobbetti, A. Leone, C. Manzi, P.Pili, A.Scheinine, M. Tuveri, A.Varone, A.Veneziani,G.Zanetti and A.Zorcolo, **ViVa: The Virtual Vascular Project.** IEEE trans. on Information Technology in medicine, 14: 1 34--48 (1998). IEEE Computer Society Press
- A4)** A. Giachetti **On line analysis of Echocardiographic Image Sequences.** Medical Image Analysis 2(3) 261-284 (1998), Oxford University Press
- A3)** A. Giachetti, M. Campani & V. Torre, **"The Use of Optical Flow for Road Navigation"** IEEE trans. on Robotics and Automation 14:1 34--49 (1998). IEEE Computer Society Press
- A2)** A. Giachetti & V. Torre, **The use of optical flow for the analysis of non-rigid motion.** International Journal of Computer Vision, 18-3 255-279 (1996), Kluwer Academic Press Norwell, MA, USA
- A1)** A.Giachetti, M. Campani & V. Torre, **Optic Flow and Autonomous Navigation.** Perception vol.24, 253--267 (1995), Pion LTD

Conference papers and book chapters

- B88)** Fabio Marco Caputo, Marco Emporio and0 Andrea Giachetti **The Smart Pin: A Novel Object Manipulation Technique for Immersive Virtual Environments** VRST 2017 Demo papers, Gothenburg
- B87)** Fabio Marco Caputo, Pietro Prebianca, Alessandro Carcangiu, Lucio D. Spano, and Andrea Giachetti **A 3 Cent Recognizer: Simple and Effective Retrieval and Classification of Mid-air Gestures from Single 3D Traces-** EG Smart Tools and Apps in computer Graphics 2017 – Catania, Sept 11-12 2017 - **Best paper award**
- B86)** Fabio Marco Caputo, Marco Emporio, and Andrea Giachetti **Single-Handed vs. Two Handed Manipulation in Virtual Reality: A Novel Metaphor and Experimental Comparisons** – EG Smart Tools and Apps in computer Graphics 2017 – Catania, Sept 11-12 2017
- B85)** A Giachetti, I Ciortan, C Daffara, R Pintus, E Gobbetti **Multispectral RTI analysis of heterogeneous artworks** proc. GCH 2017 Graz the Eurographics Association - **Best paper award**
- B84)** R Pintus, A Giachetti, G Pintore, E Gobbetti **Guided Robust Matte-Model Fitting for Accelerating Multi-light Reflectance Processing** Technique Proc. BMVC 2017 British Machine Vision Association
- B83)** FA Limberger, RC Wilson, M Aono, N Audebert, A Boulch, B Bustos, ... A. Giachetti et al **SHREC'17 Track: Point-Cloud Shape Retrieval of Non-Rigid Toys** proc. 10th Eurographics workshop on 3D Object retrieval, Lyon 2017
- B82)** S Biasotti, EM Thompson, M Aono, AB Hamza, B Bustos, S Dong, B Du, ...and A. Giachetti **Shrec'17 Track: Retrieval of surfaces with similar relief patterns** 10th Eurographics Workshop on 3D Object Retrieval
- B81)** R Pintus, I Ciortan, A Giachetti, E Gobbetti **Practical Free-form RTI Acquisition with Local Spot Lights** Proc. Smart Tools and Apps in Computer Graphics (STAG'16), Genova, Oct. 3-4, 2016
- B80)** Ciortan, I., Pintus, R., Marchioro, G., Daffara, C., Giachetti, A., & Gobbetti, E. **A Practical Reflectance Transformation Imaging Pipeline for Surface Characterization in Cultural Heritage.** Proc. GCH 2016 Genova, Oct. 5-7, 2016
- B79)** Caputo, F. M., Ciortan, I. M., Corsi, D., De Stefani, M., & Giachetti, A. (2016). **Gestural interaction and navigation techniques for virtual museum experiences.** proc. Advanced Visual Interfaces for Cultural Heritage (AVI*CH 2016), Bari, Italy, 7-10 June 2016.
- B78)** A. Giachetti, F. Fornasa, F. Parezzan, A. Saletti, L. Zambaldo, L. Zanini, F. Achilles, A. E. Ichim, F. Tombari, N. Navab, S. Velasco-Forero **Shrec'16 Track: Retrieval of Human Subjects from Depth Sensor Data** Proc. 3DOR 2016, Lisbon
- B77)** Giachetti, Andrea; Caputo, Fabio Marco; Spano, Lucio Davide; Scateni, Riccardo; Carcangiu, Alessandro; **Position paper: Shape Retrieval and 3D Gestural Interaction** Proc. 3DOR 2016, Lisbon
- B76)** Caputo, Fabio Marco; Giachetti, Andrea, **Evaluation of basic object manipulation modes for low-cost immersive Virtual Reality** ,proc."CHIItaly 2015" , Roma , September 28-30 , 2015 , ACM , pp. 74-77
- B75)** E Trucco, A Giachetti, L Ballerini, D Relan, A Cavinato, T MacGillivray **Morphometric Measurements of The Retinal Vasculature in Fundus Images with Vampire** Biomedical Image Understanding, Methods and Applications, 91-111 John Wiley & Sons, Inc
- B74)** A Giachetti, C Daffara, C Reghelin, E Gobbetti, R Pintus **Light calibration and quality assessment methods for Reflectance Transformation Imaging applied to artworks' analysis** SPIE Optical Metrology, 95270B-95270B-10, Munchen, June 2015

- B73)** A. Giachetti; F. Farina; F. Fornasa; A. Tatsuma; C. Sanada; M. Aono; S. Biasotti; A. Cerri; S. Choi, **Retrieval of Non-rigid (textured) Shapes Using Low Quality 3D Models** in Eurographics Workshop on 3D Object Retrieval, The Eurographics Association, Atti di "Eurographics Workshop on 3D Object Retrieval", Zurich, 2015, 2015, pp. 137-144
- B72)** Z. Lian; J. Zhang; S. Choi; H. ElNaghy; J. El-Sana; T. Furuya; A. Giachetti; R. A. Guler; L. Lai; C. Li; H. Li; F. A. Limberger; R. Martin; R. U. Nakanishi; A. P. Neto; L. G. Nonato; R. Ohbuchi; K. Pevzner; D. Pickup; P. Rosin; A. Sharf; L. Sun; X. Sun; S. Tari; G. Unal; R. C. Wilson, **Non-rigid 3D Shape Retrieval** in Eurographics Workshop on 3D Object Retrieval, The Eurographics Association, Atti di "Eurographics Workshop on 3D Object Retrieval", Zurich, 2015, 2015, pp. 107-120
- B71)** C. Lovato, E. Bissolo, N. Lanza, A. Stella, A. Giachetti, **A low cost and easy to use setup for foot scanning** In: 5th International Conference on 3D Body Scanning Technologies. Lugano, 2014
- B70)** P. Erbizzi, G. Bronzato, S. F. Storti, A. Giachetti, P. Manganotti, G. Menegaz, **Towards the assessment of motor network's behavioral correlates by Video-EEG**, Atti di "IEEE International Conference on Healthcare Informatics (IHCI 2014)", Verona, Italy, Sept. 15-17, 2014, 2014, pp. 1-1
- B69)** A. Giachetti, E. Mazzi, F. Piscitelli, M. Aono, A. B. Hamza, T. Bonis, P. Claes, A. Godil, C. Li, M. Ovsjanikov, V. Patraucean, C. Shu, J. Snyders, P. Suetens, A. Tatsuma, D. Vandermeulen, S. Wuhner, P. Xi, **Automatic Location of Landmarks used in Manual Anthropometry**, Atti di "Eurographics Workshop on 3D Object Retrieval", Strasbourg, France, April 6, 2014, Eurographics Association, pp. 93-100
- B68)** V. Garro, A. Giachetti, **TreeSha: 3D Shape Retrieval with a Tree Graph Representation based on the Autodiffusion Function Topology**, Atti di "Eurographics Workshop on 3D Object Retrieval", Strasbourg, France, April 6, 2014, Eurographics Association, pp. 17-24
- B67)** S. Biasotti, A. Cerri, M. Abdelrahman, M. Aono, A. B. Hamza, M. El-Melegy, A. Farag, V. Garro, A. Giachetti, D. Giorgi, A. Godil, C. Li, Y. Liu, H. Y. Martono, C. Sanada, A. Tatsuma, S. Velasco-Forero, C. Xu, **Retrieval and Classification on Textured 3D Models**, Atti di "Eurographics Workshop on 3D Object Retrieval", Strasbourg, France, April 6, 2014, Eurographics Association, pp. 111-120
- B66)** D. Pickup, X. Sun, P. L. Rosin, R. R. Martin, Z. Cheng, Z. Lian, M. Aono, A. B. Hamza, A. Bronstein, M. Bronstein, S. Bu, U. Castellani, S. Cheng, V. Garro, A. Giachetti, A. Godil, J. Han, H. Johan, L. Lai, B. Li, C. Li, H. Li, R. Litman, X. Liu, Z. Liu, Y. Lu, A. Tatsuma, J. Ye, **Shape Retrieval of Non-Rigid 3D Human Models**, Atti di "Eurographics Workshop on 3D Object Retrieval", Strasbourg, France, 2014, Eurographics Association, pp. 101-110
- B65)** Valeria Garro, Andrea Giachetti, **A Tracking Approach for the Skeletonization of Tubular Parts of 3D Shapes** in Modeling & Visualization, Eurographics Association, proc. "VMV 2013: Vision, Modeling & Visualization", Lugano, Switzerland, September 11-13, 2013, pp. 73-80
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