

# Curriculum Vitæ

Andrea Albarelli

## Personal data

*Place and date of birth:* Venice (IT), 15th December 1975  
*Nationality:* Italian  
*Marital status:* married  
*Permanent address:* via Ghetto 102, 30174 Chirignago (VE), Italy

## Affiliation

DAIS - Università Ca' Foscari Venezia  
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## Research and professional interests

My research interests are in the area of *Artificial Intelligence*, with a special focus on the design of disruptive data-driven methodologies to be applied on real-world scenarios. To this end, I work in close collaboration with companies willing to undertake a radical digital transformation process. My approach is end-to-end, spanning from the co-design of digital-first business models to the scientific advising needed to fulfill their methodological and technological infrastructure.

I lead the digital team at the LAB (Lab for Artifacts and Business models), a joint technological transfer center participated by Ca' Foscari and IUAV universities, with the goal of supporting the practical implementations required to put the projects devised into effect. I take part in three academic spin-offs, offering technical solutions in the fields of Artificial Intelligence, Data Analytics and Cybersecurity. The overall ecosystem of the LAB, the spin-offs and a strong network of external technological partners, is designed to work seamlessly to cover all the scientific and execution aspects of digital transformation.

I led several technological transfer projects, resulting in more than 70 research papers published in top international journals and presented in key Engineering conferences. I received several scientific and industrial recognitions, including the Nvidia best paper award, for my research on 3D data processing, and innovation grants from companies like Electrolux and TIM, for the technical contributions from my spin-offs. I regularly serve as a reviewer in high-ranking Computer Science and Engineering journals and in the program committee of several conferences. I'm currently a professor for the multidisciplinary Master Program in Data Analytics for Business and Society, where I'm responsible for the Artificial Intelligence teaching.

## Italian Scientific Qualifications (ASN)

- FULL PROFESSOR - COMPUTER ENGINEERING - SC: 09/H1 SDD: ING-INF/05

## Bibliometric Indices (Scopus)

- H-Index: 17
- Citations: 912

## Education

**Jan. 2007 - Mar. 2010**

*PhD in Computer Science*

Università Ca' Foscari Venezia

Supervisor: prof. Andrea Torsello

Thesis: "A game-theoretic approach to matching and robust inlier selection"

**Oct. 2005 - Oct. 2006**

*Master's degree in Computer Science (summa cum laude)*

Università Ca' Foscari Venezia

Supervisor: prof. Marcello Pelillo

Thesis: "Una Formulazione Continua per il Matching di Grafi"

**Dec. 2004 - Oct. 2005**

*Bachelor's degree in Computer Science (summa cum laude)*

Università Ca' Foscari Venezia

Supervisor: prof. Massimo Marchiori

Thesis: "Adozione di protocolli e strutture dati standard nel software OpenXDI"

**Sep. 1989 - Jun. 1994**

*High School diploma in Computer Science (full marks)*

Istituto Tecnico Industriale Preside Carlo Zuccante

Supervisor: prof. Gabriella Pellegrini, Maurizio Borsi

Thesis: "Fast3D: proiezione e rasterizzazione poligonale con matematica a virgola fissa"

## Employment

### Academic positions

**Feb. 2021 - Today**

*Associate Professor* (Computer Engineering)

DAIS, Università Ca' Foscari Venezia, Italy

Type: L. 240/10

**Apr. 2019 - Jan. 2021**

*Associate Professor* (Computer Science)

DAIS, Università Ca' Foscari Venezia, Italy

Type: L. 240/10

**Apr. 2016 - March 2019**

*Tenured Assistant Professor (RTDb)* (Computer Science)

DAIS, Università Ca' Foscari Venezia, Italy

Type: art. 24, c. 3, lett. b, L. 240/10

**Nov. 2013 - Mar. 2016**

***Assistant Professor (RTDa)*** (Computer Science)

DAIS, Università Ca' Foscari Venezia, Italy

Type: art. 24, c. 3, lett. a, L. 240/10

**Apr. 2013 - Nov. 2013**

***Post-doc position*** (Computer Science)

DAIS, Università Ca' Foscari Venezia, Italy

Project: "Modelli congiunti per registrazione e calibrazione di camera"

Type: art. 22 L. 240/2010

Supervisor: prof. Andrea Torsello

**Mar. 2012 - Mar. 2013**

***Post-doc position*** (Computer Science)

DAIS, Università Ca' Foscari Venezia, Italy

Project: "Tecnologie ICT per collaborazioni aperte tra PMI su modelli di Business innovativi"

Type: art. 22 L. 240/2010

Supervisor: prof. Salvatore Orlando

**Mar. 2011 - Mar. 2012**

***Post-doc position*** (Computer Science)

DAIS, Università Ca' Foscari Venezia, Italy

Project: "Modelli di teoria dei giochi per ricostruzione ed elaborazione di oggetti 3D"

Type: art. 51, c. 6, L. 449/1997

Supervisor: prof. Andrea Torsello

**Mar. 2010 - Mar. 2011**

***Post-doc position*** (Computer Science)

Dipartimento di Informatica, Università Ca' Foscari Venezia, Italy

Project: "Modelli di teoria dei giochi per ricostruzione ed elaborazione di oggetti 3D"

Type: art. 51, c. 6, L. 449/1997

Supervisor: prof. Andrea Torsello

**Jan. 1995 - Oct. 1997**

***Research fellow*** (Bioinformatics)

CRIBI, Università di Padova, Italy

Project: "Systematic sequencing and characterization of human c-dna's from skeletal muscle"

Supervisor: prof. Giorgio Valle

## **Industrial positions**

**Feb. 2019 - Today**

***Co-founder and Scientific Advisor***

10Sec S.r.l.

Business sector: Information Technology

Activities: Computer systems security

**Sep. 2016 - Today**

***Co-founder and Scientific Advisor***

DigitalMetrix S.r.l.

Business sector: Information Technology

Activities: Design and production of contactless metrological instruments

**Oct. 2010 - Today**

***Co-founder and CEO***

DigitalViews S.r.l.

Business sector: Information Technology

Activities: Technological transfer, research and development of computer vision solutions

**Jun. 2008 - Oct. 2010**

***Chief technical officier***

Evolvenda S.r.l.

Business sector: Information Technology

Activities: Development of custom IT solutions for electronic documents exchange

**Nov. 2001 - Jun. 2008**

***Project manager***

System 5 S.r.l.

Business sector: Information Technology

Activities: Development of C++ and Java web-based and mobile applications

**Feb. 1996 - Nov. 2001**

***Software developer***

Side 7 S.n.c.

Business sector: Information Technology

Activities: Development of web sites and intranet applications

## Academic Appointments

- Member of the advisory board for the Master's Degree Programme in Data Analytics for Business and Society with Università Ca' Foscari Venezia from October 2020
- Advisor for digital transformation activities and member of the scientific steering committee at the Laboratory for Artifacts and Business models (LAB) founded by Ca' Foscari and IUAV universities from January 2020
- Coordinator of the Ca' Foscari Research Institute for Innovation Management from October 2019 to October 2020
- Member of the Computer Science courses advisory board with Università Ca' Foscari Venezia from November 2017 to October 2019
- Member of the PhD advisory board for Computer Science with Università Ca' Foscari Venezia from October 2016

## Awards and recognition

### Scientific awards

- Winner of the Best Young Researcher award issued by Università Ca' Foscari Venezia for the scientific and technological achievements obtained within the field of contactless 3D reconstruction (2011)
- Nvidia Best Paper Award for "Robust Game-Theoretic Inlier Selection for Bundle Adjustment" at the Fifth International Symposium on 3D Data Processing, Visualization and Transmission (3DPVT 2010)
- Best Paper Runner Up award for "Three-Layered QoS for eGovernment Web Services" at the 11th Annual International Digital Government Research Conference on Public Administration Online (DGO 2010)

## Industrial awards

- Winner of a open innovation grant issued by “Electrolux S.p.a.” for the design of an inline quality control approach (2018)
- Winner of a startup grant issued by “TIM S.p.a.” for the creation of a new generation of contactless metrological instruments (2016)
- Winner of the Working Capital award issued by “Telecom Italia S.p.a.” for innovative industrial research on real-time algorithms for the adoption of augmented reality on mobile devices (2011)
- Winner of the “IMPRESA“ grant issued by the Ministry of Economic Development for academic Spin-Offs startups with a business proposal focused on the applications of Computer Vision in industrial scenarios (2010)

## Grants and scholarships

- Winner of the comparative evaluation procedure for a total of four post-doc positions at Università Ca’ Foscari Venezia (2010-2013)
- Phd studies funded by national grant (2007-2010)
- Winner of a research grant within Telethon project B.39 (Bioinformatics) (1997)

## Teaching

### Supervision of PhD students

- *Francesco Pelosin*, Adversarial Learning for Industrial Applications (Cycle 34, 2018)
- *Dalila Ressi*, Deep Learning for Industrial Applications (Cycle 33, 2017)
- *Marco Boschetti*, Multispectral Imaging for Learning Tasks (Cycle 33, 2017)
- *Enrico Ursella*, Tomography Methods for Reconstruction and Classification (Cycle 33, 2017)
- *Mara Pistellato*, Computer Vision for Metrology and Reconstruction (Cycle 32, 2016)

### Upper-division undergraduate courses

- *Artificial Intelligence and Data Analytics*, Università Ca’ Foscari Venezia (2020-2022)
- *Computer Programming and Data Management*, Università Ca’ Foscari Venezia (2020-2021)
- *3D Modelling and Acquisition*, Università Ca’ Foscari Venezia (2016,2017)
- *Advanced Algorithms and Programming*, Università Ca’ Foscari Venezia (2015-2016)
- *Information Systems and Network*, Università Ca’ Foscari Venezia (2014-2020)
- *Programming and Data Management*, Università Ca’ Foscari Venezia (2014-2015)
- *Information Theory*, Università Ca’ Foscari Venezia (2011)
- *Digital Image Processing*, Università di Padova (2011)

## Lower-division undergraduate courses

- *Network Oriented Languages*, Università Ca' Foscari Venezia (2014-2022)
- *Object Oriented Programming*, Università Ca' Foscari Venezia (2017-2019)
- *Computer Science for Management*, Università Ca' Foscari Venezia (2017-2018)
- *Information Systems and Data Management*, Freie Universität Bozen (2015)
- *Operating Systems*, Università Ca' Foscari Venezia (2014)
- *Computer Architecture*, Università Ca' Foscari Venezia (2012)
- *Preparatory course on mathematics*, Università Ca' Foscari Venezia (2007,2009,2010)
- *Assistant teacher in linear algebra*, Università Ca' Foscari Venezia (2007,2013)
- *Assistant teacher in probability and statistics*, Università Ca' Foscari Venezia (2008,2009)
- *Assistant teacher in analysis*, Università Ca' Foscari Venezia (2008)
- *Assistant teacher in physics*, Università Ca' Foscari Venezia (2006)

## Post-diploma courses

- *Javascript developer*, FTE course managed by Sive Formazione S.r.l. (2017)
- *Java and .Net developer*, FTE course managed by Sive Formazione S.r.l. (2015)
- *Java Enterprise Edition Base*, FTE course managed by Sive Formazione S.r.l. (2014)
- *Java Enterprise*, FTE course managed by Sive Formazione S.r.l. (2012)
- *Java and Android mobile applications*, FTE course managed by Kairos S.p.a. (2012)
- *Database systems*, IFTS course managed by ITIS C. Zuccante (2011)
- *Mobile applications*, IFTS course managed by ITIS C. Zuccante (2011)

## Online teaching activities

- *Introduction to Computer Science (MOOC Course)*, Università Ca' Foscari Venezia (2015)
- *Network Oriented Languages (Blended Online)*, Università Ca' Foscari Venezia (2015,2016)

## Research projects and technology transfer

### Public funded projects

- Principal Investigator (P.I.), FSE - Regione Veneto, Competitive project reviewed by external referees, *Metodologie strutturate per l'analisi e il governo delle iniziative di innovazione digitale*, total funding EUR 117.760 (2020- 2021)
- Principal Investigator (P.I.), POR FESR 2014-202 - Regione Veneto, Competitive project reviewed by external referees, *AIPAD - Automatic Installation Process Analysis and Documentation*, total funding EUR 149.672 (2019-2021)
- Principal Investigator (P.I.), FSE - Regione Veneto, Competitive project reviewed by external referees, *(Artificial Intelligence as a competitiveness booster for the industry*, total funding EUR 170.000 (2018-2019)
- Principal Investigator (P.I.), POR FESR 2014-202 - Regione Veneto, Competitive project reviewed by external referees, *Tecniche di Deep Machine Learning per l'analisi di qualità di superfici in pietra sinterizzata*, total funding EUR 496.868 (2017-2018)

- Principal Investigator (P.I.), MIUR - Università Ca' Foscari Venezia, Competitive project reviewed by external referees (rated 65/65, 63/65), *Visual narrative of Venice through the centuries*, total funding EUR 50.000 (2015-2016)
- Participant, Nation project Smart Cities, “*ADAPT - Accessible Data for Accessible Prototypes in Social Sector*”, total funding EUR 1.416.851 (2012-2017)
- Participant, European Commission, FP7 FET-Open (STREP), “*SIMBAD - Beyond Features: Similarity-Based Pattern Analysis and Recognition*”, total funding EUR 2.171.000 (2008-2011)
- Participant, Regione Veneto (Direzione Sistemi Informativi), “*Sistemi collaborativi e portali di servizi ai cittadini: strumenti di orchestrazione e di misurazione della qualità*” (2008-2009)
- Participant, MIUR national project (PRIN), “*Similarity-based methods for Computer Vision and Shape Recognition: Theory, algorithms and applications*”, total funding EUR 83.160 (2007-2009)
- Participant, Regione Veneto (Direzione Sistemi Informativi), “*eGovernment Inquiry Framework (action 7.3 of the project “Citizens iTV” – digital TV / internet integration)*” (2006-2007)

## Technological transfer projects

- Irinox S.p.a., “*Shared ERP Analytics: Confederare i Big Data per orientarsi nelle decisioni strategiche e operative*” (Director of the project) (2022)
- Eurosystem S.p.a., “*Shared ERP Analytics: Confederare i Big Data per orientarsi nelle decisioni strategiche e operative*” (Director of the project) (2022)
- Sapiens Analytics S.r.l., “*AI-Driven Big Data Hub*” (Director of the project) (2021)
- Zamperla S.p.a., “*TDIIE – Trasformazione digitale innovativa nell’industria dell’entertainment*” (Director of the project) (2021)
- DeLonghi S.p.a., “*Coffee Lounge - Building online communities*” (Director of the project) (2021)
- Thetis S.p.a., “*SAFEST - Hyper Spectral Analyzer oF thE infraStrucTures*” (Director of the project) (2021)
- Microtec S.p.a., “*CoNNeCT - Compact Neural Networks for Camera Tasks*” (Director of the project) (2020)
- Gruppo Save S.p.a., “*S2T2 Smart and Semantic Terminal Tracking*” (Director of the project) (2019)
- Gruppo Pam S.p.a., “*DD-Rail - Data Driven RetAIL*” (Director of the project) (2019)
- Keyline S.p.a., “*Unikey - Sistema per la gestione intelligente delle flotte di veicoli in ambito multiutente*” (Director of the project) (2019)
- Gruppo Save S.p.a., “*Terminal Passengers Tracking*” (Director of the project) (2019)
- Electrolux S.p.a., “*RAID - Rapid Automatic Inspection Development*” (Director of the project) (2018)
- Thetis S.p.a., “*ARGOS 2.0 - Vision based boat tracking system*” (Director of the project) (2018)
- Dynamic Technologies S.p.a., “*Online control for non-metrological defects in aluminum pipes*” (Director of the project) (2018)

- Breton S.p.a., “*Quality assessment for synthetic stone surfaces*” (Director of the project) (2017)
- Microtec S.p.a., “*Sensori 3D Stereoscopici per la Sorveglianza Intelligente*” (Director of the project) (2017)
- Pertoldi S.r.l., “*Real-time quality control for silkscreen printed dashboards*” (“Conto terzi”, Director of the project) (2015)
- Dynamic Technologies S.p.a., “*Production quality control for aluminum pipes*” (“Conto terzi”, Director of the project) (2015)
- Gruppo Pam S.p.a., “*Interaction Models for point-of-sale restocking within large-scale distribution*” (2014)
- Raco S.p.a., “*Non-contact measurement for in-line quality control*” (2012)
- Telecom Italia S.p.a., “*Software-based sensor for depth measurement on mobile phones*” (2011)
- CiGraph S.p.a., “*Unsupervised scene reconstruction from a sequence of images*” (2011)
- Luxottica S.p.a., “*Fully automated 3D scanning system for small objects*” (2009-2010)
- Luxottica S.p.a., “*Engineering distance based shape search engine*” (2008)
- Finanziaria Internazionale S.p.a., “*Guidelines for Disaster Recovery in Information Systems*” (2007)

## Academic spin-offs

- 10Sec S.r.l. (with prof. Riccardo Focardi), academic spin-off focused on the development of cybersecurity solutions (2019)
- DigitalMetrix S.r.l., academic spin-off focused on the development of contactless measurement devices, entirely funded by TIM Spa (2016)
- DigitalViews S.r.l., academic spin-off focused on the development of industrial solutions based on the most innovative research results achieved by the Computer Vision group of Università Ca’ Foscari Venezia (2010)

## Event Organization and Participation

### Events and exhibitions

- Stelle e Viaggi (Venice, Accademia di Belle Arti, Magazzino del Sale 3, June 18-September 30), Coordinator for the vision-based subsystem (2017)
- VenetoNight 2015 (European Commission Funded Researchers’ Night), Coordinator for all the activities presented by the department of Environmental Sciences, Computer Science and Statistics, Università Ca’ Foscari Venezia (2015)
- VenetoNight 2014 (European Commission Funded Researchers’ Night), Computer Vision for Cultural Heritage demo, “*Magic Book: virtual page rendering on curved surfaces*”, Università Ca’ Foscari Venezia (2014)
- VenetoNight 2013 (European Commission Funded Researchers’ Night), Computer Vision for Cultural Heritage demo, “*Projected Augmented Reality with User Tracking*”, Università Ca’ Foscari Venezia (2013)



- VenetoNight 2012 (European Commission Funded Researchers' Night), Computer Vision and Artificial Intelligence demo, "*Vision-based non-photorealistic representation and automated hand drawing by a robotic arm*", Università Ca' Foscari Venezia (2012)
- Venezia 2019 Salone Europeo della Cultura (European Cultural Heritage Exposition), Interactive Exposition, "*Exploring Venetian Paintings through an interactive multitouch experience*", Venezia Culture Forum (2012)
- VenetoNight 2011 (European Commission Funded Researchers' Night), Interactive technical demo, "*Projected Augmented Reality: a practical setup for public interactive augmented maps*", Università Ca' Foscari Venezia (2011)
- BBCC Expo 2011 – XV Salone dei Beni e delle Attività Culturali e del Restauro (Cultural Heritage Exposition), Interactive technical demo, "*A tangible interface for a multiuser video presentation tabletop*", Terminal Passeggeri Venezia (2011)
- Digital Week 2011 (European Commission Funded Technological Exposition), Interactive technical demo, "*Automated 3D scanning of small artifacts*", Università Ca' Foscari Venezia (2011)
- VenetoNight 2010 (European Commission Funded Researchers' Night), Interactive technical demo, "*Automatic 3D reconstruction of the human face from a series of webcam shots*", Università Ca' Foscari Venezia (2010)

## Museum installations

- MOCKBA Underground - Pittura astratta dal 1960 (Russian abstract paintings from 1960), Two large multitouch tables that can be used to control the combination of painting in a virtual gallery projected on the surrounding walls, Spazi Espositivi Università Ca' Foscari Venezia (2012)
- Avanguardia Russa: esperienze di un mondo nuovo (Russian avant-garde paintings), An interactive projection setup controlled by a tangible interface augmented by annotated factsheets, Palazzo Leoni Montanari, Vicenza (2012)
- William Congdon a Venezia (1948-1960): Uno sguardo americano (Painting by William Congdon depicting Venice), Three large multitouch tables representing the island of Venice in different historical periods and controlling interactive wall projections, Spazi Espositivi Università Ca' Foscari Venezia (2012)

## TV appearances

- Geo&Geo, RAI 3 (National public channel), Illustration of the basic principles of contactless 3D reconstruction and presentation of a prototype scanning machine developed at Università Ca' Foscari Venezia (2012)
- Italia chiama Italia, Rai International (National public channel), Discussion about the research activities performed and of the opportunities offered by international collaborations (2011)

## Seminars and laboratories

- Frequent formal and informal seminars to disseminate research results and to prompt discussion among colleagues (from 2010)
- Periodical presentations of the Bachelor's and Master's degrees offered by Università Ca' Foscari Venezia (2013)

- Computer Vision laboratory periodically held with High School students introducing the basic concepts of image filtering and objects tracking, “*Learning Computer Vision through the development of a Camera-trackable Game Controller*” (2010-2013)

## Keynotes and Invited Talks

- *Machine learning, Big Data and Allergy*, Invited speech at the 23rd Congress of Italian Society of Pediatric Allergy and Immunology (SIAIP 2021)
- *Game Theory as a tool for Pattern Recognition*, Keynote speech at the 6th International Doctoral Symposium on Applied Computation and Security Systems (ACSS 2019)
- *Design and Evaluation of a Viewer-Dependent Stereoscopic Display*, Keynote speech at Third International Conference on Software and Emerging Technologies for Education, Culture, Entertainment, and Commerce (SETECEC 2014)
- *Computer vision as an enabling technology in museum environments*, Invited Talk at Digital Humanities: a Dialogue between Visual Arts and Sciences (Venice 2013)

## Professional services

### Conference and workshop organization

- *Organizing committee member*, 7th IAPR Workshop on Graph-based Representations in Pattern Recognition (GBR). Venice (2009)
- *Organizing committee member*, International Workshop on Computer Vision (IWCV), Venice (2008)
- *Organizing committee member*, Foundations of Computer Vision: Light, Space, and Matter, Bertinoro (Forli) (2007)
- *Organizing committee member*, 33rd International Colloquium on Automata, Languages and Programming (ICALP), Venice (2006)

### Conferences referee

26th IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2013), 23th International Joint Conference on Artificial Intelligence (IJCAI 2013), The 17th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2013), 12th European Conference on Computer Vision (ECCV 2012), Wireless Days 2012 (WD 2012), 37th International Symposium on Mathematical Foundations of Computer Science (MFCS 2012), 21th International Conference on Pattern Recognition (ICPR 2012), Advanced Visual Interfaces International Working Conference (AVI 2012), 11th Int. Conf. on Information Systems and Industrial Management (CISIM 2012), 25th IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2012), 13th IEEE International Conference on Computer Vision (ICCV 2011), 24th IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2011), 23th IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2010), 20th International Conference on Pattern Recognition (ICPR 2010), International Conference on Digital Image Computing: Techniques and Applications (DICTA 2010), 7th IAPR -TC-15 Workshop on Graph-based Representations in Pattern Recognition (GBR 2009), 7th International Conference on Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR 2009), 9th Asian Conference on Computer Vision (ACCV 2009), 13th International Conference on Computer Analysis of Images and Patterns (CAIP 2009), 33rd Annual IEEE Int. Computer Software and Applications Conference (COMPSAC 2009).

## Journals referee

IEEE Transactions on Pattern Analysis and Machine Intelligence; Pattern Recognition; Pattern Recognition Letters; Machine Vision and Applications; Optical Engineering; IEEE Multimedia; Journal of Electronic Imaging.

## Collaborations and Scientific supervisions

### Visiting Positions

**May 2015 - Aug. 2015 *Visiting Scholar*** (4 months, prof. Josep Lladós) Computer Vision Center, Universitat Autònoma de Barcelona, Barcelona, Spain

**Nov. 2014 - Feb. 2014 *Visiting Scholar*** (4 months, prof. Aleš Vaupotič) Research Centre for Humanities, University of Nova Gorica, Nova Gorica, Slovenia

**Jun. 2014 - Sep. 2014 *Visiting Scholar*** (4 months, prof. Daniel Cremers) Department of Computer Science, Technische Universität München (TUM), Munich, Germany

### Other Collaborations

- *Technion - Israel Institute of Technology, Tel Aviv University*, Israel: Dr. Alex M. Bronstein
- *Imagelab, Università di Modena e Reggio Emilia*, Israel: Prof. A. Prati, Dr. G. Gualdi
- *Multimedia and Telecommunications Lab, Università di Padova*, Italy: Prof. P. Zanuttigh
- *Dip. di Filosofia e Beni Culturali, Università Ca' Foscari Venezia*, Italy: Prof. G. Barbieri
- *Dip. di Management, Università Ca' Foscari Venezia*, Italy: Prof. C. Bagnoli

### Direct supervision of post-doctoral students

- Michele Schiavinato, Università Ca' Foscari Venezia (2018)
- Luca Cosmo, Università Ca' Foscari Venezia (2016-2018)
- Andrea Gasparetto, Università Ca' Foscari Venezia (2017-2019)
- Giulio Zavatta, Università Ca' Foscari Venezia (2016)

### Direct supervision of research projects

- Visual narrative of Venice through the centuries (2015-2016), research group members: Andrea Albarelli, Andrea Torsello, Giuseppe Barbieri, Luca Cosmo, Giulio Zavatta

### Supervision of theses

- Supervisor and co-supervisor of several bachelor and master theses both at Università Ca' Foscari Venezia and Università di Padova
- Collaboration in the supervision of PhD theses of the KIIS (Center for Knowledge, Interaction and Intelligent Systems) at Università Ca' Foscari Venezia

# Publications

## International journals

- [J.16] Giovanna Cilluffo, Salvatore Fasola, Giuliana Ferrante, Amelia Licari, Giuseppe Roberto Marseglia, Andrea Albarelli, Gian Luigi Marseglia, Stefania La Grutta. Machine learning: A modern approach to pediatric asthma. *Pediatric Allergy And Immunology*, Wiley, 2022
- [J.15] Filippo Bergamasco, Mara Pistellato, Andrea Albarelli, Andrea Gasparetto, Andrea Torsello. Cylinders extraction in non-oriented point clouds as a clustering problem. *Pattern Recognition*, Elsevier, 2020
- [J.14] Mara Pistellato, Filippo Bergamasco, Andrea Albarelli, Andrea Gasparetto, Andrea Torsello. Robust phase unwrapping by probabilistic consensus. *Optics and Lasers in Engineering*, Elsevier, 2019
- [J.13] Filippo Bergamasco, Andrea Albarelli, Luca Cosmo, Emanuele Rodolà, Andrea Torsello. An Accurate and Robust Artificial Marker based on Cyclic Codes. *Pattern Analysis and Machine Intelligence (PAMI)*, IEEE, 2016
- [J.12] Luca Cosmo, Emanuele Rodolà, Andrea Albarelli, Facundo Memoli, Daniel Cremers. Consistent Partial Matching of Shape Collections via Sparse Modeling. *Computer Graphics Forum*, Wiley, 2016
- [J.11] Andrea Albarelli, Luca Cosmo, Filippo Bergamasco, Flavio Sartoretto, Andrea Torsello. A 5 degrees of freedom multi-user pointing device for interactive whiteboards. *Pattern Analysis and Applications*, Elsevier, 2016
- [J.10] Andrea Albarelli, Emanuele Rodolà, Andrea Torsello. Fast and Accurate Surface Alignment through an Isometry-Enforcing Game. *Pattern Recognition*, Elsevier, 2015
- [J.9] Albarelli Andrea, Cosmo Luca, Bergamasco Filippo, Sartoretto Flavio. Phase-based spatio-temporal interpolation for accurate 3D localization in camera networks. *Pattern Recognition Letters*, Elsevier, 2015
- [J.8] Emanuele Rodolà, Andrea Albarelli, Daniel Cremers, Andrea Torsello. Simple and Effective Relevance-Based Point Sampling for 3D Shapes. *Pattern Recognition Letters*, Elsevier, 2015
- [J.7] Andrea Albarelli, Emanuele Rodolà, Andrea Torsello. Imposing Semi-local Geometric Constraints for Accurate Correspondences Selection in Structure from Motion: a Game-Theoretic Perspective. *International Journal of Computer Vision*, Springer, 2013
- [J.6] Andrea Torsello, Andrea Albarelli, Emanuele Rodolà. Stable and Fast Techniques for Unambiguous Compound Phase Coding. *Image and Vision Computing*, Elsevier, 2013

- [J.5] Andrea Albarelli, Filippo Bergamasco, Luca Cosmo, Augusto Celentano, Andrea Torsello Using Multiple Sensors for Reliable Markerless Identification through Supervised Learning. *Machine Vision and Applications*, Springer, 2013
- [J.4] Emanuele Rodolà, Andrea Albarelli, Filippo Bergamasco, Andrea Torsello A Scale Independent Selection Process for 3D Object Recognition in Cluttered Scenes. *International Journal of Computer Vision*, Special Issue on 3D Imaging, Processing and Modeling Techniques, Springer, 2012
- [J.3] Filippo Bergamasco, Andrea Albarelli, Andrea Torsello. Pi-Tag: A Fast Image-Space Marker Design Based on Projective Invariants. *Machine Vision and Applications*, Springer, 2012
- [J.2] Filippo Bergamasco, Andrea Albarelli, Andrea Torsello. A Graph-Based Technique for Semi-supervised Segmentation of 3D Surfaces. *Pattern Recognition Letters*, Elsevier, 2012
- [J.1] Antonio Candiello, Andrea Albarelli and Agostino Cortesi. Quality and Impact Monitoring for Local eGovernment Services. *Transforming Government: People, Process and Policy (TGPPP)*, Special Issue on Collaborative Government, Emerald, 2011

## Chapters in books

- [B.4] Andrea Albarelli, Filippo Bergamasco, Andrea Torsello. Learning computer vision through the development of a camera-trackable game controller *Computer Vision: Concepts, Methodologies, Tools, and Applications*, (IGI Global), 2018
- [B.3] Andrea Albarelli, Luca Cosmo, Filippo Bergamasco. Practical Metrics for Error Assessment with Interactive Museum Installations *Handbook of Research on Interactive Information Quality in Expanding Social Network Communications*, (IGI Global), 2015
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- [C.56] Mara Pistellato, Andrea Albarelli and Filippo Bergamasco Calibration of a Telecentric Structured-light Device for Micrometric 3D Reconstruction *International Conference on Pattern Recognition Applications and Methods*, (ICPRAM 2022), 2022
- [C.55] Dalila Ressi, Mara Pistellato, Andrea Albarelli, Filippo Bergamasco A Relevance-Based CNN Trimming Method for Low-Resources Embedded Vision *International Conference Italian Association for Artificial Intelligence*, (AIxIA 2021), 2022
- [C.54] Francesco Pelosin, Andrea Gasparetto, Andrea Albarelli and Andrea Torsello Unsupervised semantic discovery through visual patterns detection *International Conference on Smart Objects and Technologies for Social Good*, (SSPR 2020), 2021
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- [C.52] Mara Pistellato, Filippo Bergamasco, Andrea Albarelli, Luca Cosmo, Andrea Gasparetto, Andrea Torsello Stochastic Phase Estimation and Unwrapping *International Conference on Pattern Recognition Applications and Methods*, (ICPRAM2019), 2019
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(Notices in Italian language required by law)

Il sottoscritto dichiara che quanto sopra dichiarato corrisponde a verità ai sensi degli artt. 46 e 47 del D.P.R. n. 445/2000 e consapevole delle sanzioni penali, nel caso di dichiarazioni non veritiere, di formazione o uso di atti falsi, richiamate dall'art. 76 del D.P.R. 445 del 28 dicembre 2000.

Autorizzo il trattamento dei miei dati personali presenti nel cv ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e del GDPR (Regolamento UE 2016/679)

Data di oggi: 30 gennaio 2022

Firma (Andrea Albarelli)

