Curriculum Vitæ

Filippo Bergamasco

Personal data

Full name:	Filippo Bergamasco
Position:	Researcher – Italian Law n. 240/10 RTDA
Place and date of birth:	Verona (IT), 18th September 1985
Nationality:	Italian
Marital status:	Married
Permanent address:	via Pantelleria 2, 30174 Zelarino (Venice), Italy

Affiliation

DAIS
Università Ca' Foscari Venezia
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Biographical Sketch

Filippo Bergamasco is a researcher at the Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice, Italy. He is currently interested in high-precision photogrammetry, camera calibration, polarization and multispectral imaging, ego-motion estimation and 3D reconstruction applied to moving/nonrigid objects.

Since 2014, he collaborates with the Italian research institute CNR ISMAR in the field of 3D stereo reconstruction of sea waves from offshore platforms and vessels. He studied novel vision-based techniques to provide fast and reliable space-time estimation of sea wave spectrum, crucial to study complex phenomena such the likelihood of oceanic rogue waves or the energy transfer between atmosphere and sea.

Actively involved in technology transfer, Dr. Filippo Bergamasco is the CEO of DigitalMetrix s.r.l and co-founder of DigitalViews s.r.l, academic spin-offs of the University of Venice. He has been involved in many privately founded computer vision projects for industry and entertainment, including structured light scanner solutions, Deep Learning applications for industrial quality inspection, interactive vision-based museum exhibitions and applications for embedded devices. Finally, He has published more than 50 technical papers in in international refereed journals and conference proceedings.

Education

Sept 2011 - Feb 2015
PhD in Computer Science
Università Ca' Foscari Venezia
Supervisor: prof. Andrea Torsello
Thesis: "High-Accuracy Camera Calibration and Scene Acquisition"

April 2008 - March 2011
Master's degree in Computer Science *(summa cum laude)*
Università Ca' Foscari Venezia
Supervisor: Prof. Andrea Torsello
Thesis: "Novel Techniques and Algorithms for 3D Data Acquisition and Processing"

September 2004 - April 2008
Bachelor's degree in Computer Science *(summa cum laude)*
Università Ca' Foscari Venezia
Supervisor: Prof. Agostino Cortesi
Thesis: "Sistema di authoring, reporting ed erogazione multicanale di questionari per l'analisi della customer satisfaction"

September 1999 - July 2004
High School diploma *(94/100)*
Liceo Scientifico Giordano Bruno (Indirizzo P.N.I.)
Mestre (VE), Italy

Visiting appointments

November 2013 - March 2014
Institution: ***NICTA***
Australia's Information and Communications Technology (ICT) Research Centre of Excellence (http://nicta.com.au/)
Location: Canberra, ACT, Australia
Activities: Dichromatic model recovery from Multi-spectral images

Employment

Academic positions

November 2018 - Today
Researcher (RTDa) *(Computer Science, INF/01)*
DAIS, Università Ca' Foscari Venezia, Italy.
Type: art. 24, c. 3, lett. a, L. 240/10

March 2018 - November 2018
Post-doc position *(Computer Science)*
DAIS, Università Ca' Foscari Venezia, Italy.
Type: art. 22 L. 240/2010
Project: Ricostruzione 3D su scala urbana

November 2017 - March 2018
Post-doc position *(Computer Science)*

DAIS, Università Ca' Foscari Venezia, Italy. (Co-founded by CNR ISMAR)
Type: art. 22 L. 240/2010
Project: Registazione e georeferenziazione multi sensore attraverso processi accoppiati su gruppi di Lie

November 2016 - November 2017
Post-doc position *(Computer Science)*
DAIS, Università Ca' Foscari Venezia, Italy. (Co-founded by CNR ISMAR)
Type: art. 22 L. 240/2010
Project: Registazione e georeferenziazione multi sensore attraverso processi accoppiati su gruppi di Lie

November 2015 - November 2016

Post-doc position *(Computer Science)*
DAIS, Università Ca' Foscari Venezia, Italy. (Co-founded by CNR ISMAR)
Type: art. 22 L. 240/2010
Project: Photometric 3D Ocean Wave Reconstruction and whitecapping tracing for oceanographic measurements

November 2014 - November 2015

Post-doc position *(Computer Science)*
DAIS, Università Ca' Foscari Venezia, Italy. (Co-founded by CNR ISMAR)
Type: art. 22 L. 240/2010
Project: Photometric 3D Ocean Wave Reconstruction and whitecapping tracing for oceanographic measurements

Industrial positions

September 2016 - Today
CEO and co-founder
DigitalMextrix s.r.l.
Business sector: Information Technology
Activities: R&D of structured-light scanning solutions

October 2010 - Today
Senior scientific advisor and co-founder
DigitalViews s.r.l.
Academic Spin-off of Ca'Foscari University of Venice
Business sector: Information Technology
Activities: Technological transfer, R&D of computer vision solutions

January 2010 - July 2010
Mobile solutions consultant
AlittleB.it s.r.l.
Business sector: Information Technology
Activities: photo-editing mobile applications consultant

October 2008 - June 2009
Software developer
Evolvenda s.r.l.
Business sector: Information Technology

Activities: Lead developer of an OpenGL-based mesh editing application.

June 2008 - July 2008
Software developer
Evolvenda s.r.l.
Business sector: Information Technology, e-government
Activities: Development of a web-based service-oriented application for customer satisfaction analysis

October 2008 - December 2008
Software developer
System5 s.r.l.
Business sector: Information Technology, e-government
Activities: Data back-end developer for the e-Gif system.

Qualifications

- National Scientific Qualification (ASN) to function as associate professor (Professore di II fascia) in Italian Universities, academic recruitment field 09/H1 (Information processing systems), (art.16 of the law 30 December 2010, n.240) obtained on date 09/09/2019.
- National Scientific Qualification (ASN) to function as associate professor (Professore di II fascia) in Italian Universities, academic recruitment field 01/B1 (Informatics), (art.16 of the law 30 December 2010, n.240) obtained on date 11/09/2019.

Research projects and technology transfer

Patents

Italian patent N.102015000082942
METODO ED APPARATO PER LA MISURA SPAZIALE NEL TEMPO DELLA SUPERFICIE DEL MARE DA PIATTAFORME MOBILI
Pubishing date: 15 June 2017

Academic spin-offs

- CEO of DigitalMetrix s.r.l., start-up and academic spin-off focused on the development of structured-light based 3D scanning solutions
- Co-founder of 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

Public funded projects

- Ca'Foscari University of Venice, *programma di Incentivi alla Ricerca InDividualE* (IRIDE). Project "Polar3D". **Role:** Principal investigator, total founding EUR 2.400,00 (2019)

- Partecipation to the Italian project *RITMARE*, financed by the Ministry of University and Research (MIUR), to the research units:

  1. *"Sviluppo di sistemi ottici-stereofotogrammetrici per la misura di spettri ondosi da piattaforme fisse e da navi"*
  2. *"Sistemi evoluti di rilevazione onde estreme"*

  Role: Scientific advisor, assigned by CNR-ISMAR through an agreement between the Ca'Foscari University of Venice and CNR-ISMAR (Prot. ISMAR-CNR 13196 del 20/11/2014 e rinnovo Prot. ISMAR-CNR 8525 del 4/11/2015) (2015)

- DigitalMetrix s.r.l., POR FESR 2014-2020 AZIONE 1.1.4 "Sostegno alle attività collaborative di R&S per lo sviluppo di nuove tecnologie sostenibili, di nuovi prodotti e servizi". Project title: *"Tecniche di Deep Machine Learning per l'analisi di qualità di superfici in pietra sinterizzata"*. **Role:** Principal Investigator (DigitalMetrix s.r.l. capofila), total founding EUR 496.868 (2017)

- DigitalMetrix s.r.l., POR FESR 2014-2020 Azione 1.1.2 "Sostegno per l'acquisto di servizi per l'innovazione tecnologica, strategica, organizzativa e commerciale delle imprese". Project title: *"SmartGlass per la ricostruzione 3D di oggetti"*. **Role:** Principal Investigator (DigitalMetrix s.r.l. capofila), total founding EUR 24.000 (2017)

- DigitalMetrix s.r.l., POR FESR 2014-2020 Azione 1.4.1 "Sostegno alla creazione e al consolidamento di start-up innovative ad alta intensità di applicazione di conoscenza e alle iniziative di spin-off della ricerca". Project title: *"Visione Artificiale per l'Ispezione In Linea di Componenti Meccanici"*. **Role:** Principal Investigator (DigitalMetrix capofila), total founding EUR 40.000 (2017)

- DigitalViews s.r.l., POR FESR 2014-2020 Azione 1.1.2 "Sostegno per l'acquisto di servizi per l'innovazione tecnologica, strategica, organizzativa e commerciale delle imprese". Project title: *"Calibro ottico telecentrico bi-assiale"*. **Role:** Principal Investigator (DigitalViews s.r.l. capofila), total founding EUR 24.000 (2017)

- Regione Veneto (Direzione Sistemi Informativi). Project title: *"Sistemi collaborativi e portali di servizi ai cittadini: strumenti di orchestrazione e di misurazione della qualità"*, **Role:** participant. (2008-2009)

- Regione Veneto (Direzione Sistemi Informativi). Project title: *" eGovernment Inquiry Framework (action 7.3 of the project "Citizens iTV" – digital TV / internet integration)"*. **Role:** participant. (2006-2007)

Privately funded projects

- Korea Institute of Science and Technology (KIOST). Project *"WAVESENSE - Multi-sensor Directional Wave Sensing"*. Total founding EUR 20.000,00, (Type: "Conto terzi", **Role:** Principal investigator) (2019)

- Participant of the project "Analysis of Stereo Wave Imaging Data for the Characterization of Rogue Waves During Extreme Wave Conditions, Including Typhoon", developed with CNR ISMAR and Korea Institute of Science and Technology (KIOST). **Role:** Co-PI. (2017)

- Pertoldi S.r.l., *"Real-time quality control for silkscreen printed dashboards"*, total funding EUR 12.500 (Type: "Conto terzi", **Role:** Scientific advisor) (2015)

- Dynamic Technologies S.p.a., *"Production quality control for aluminium pipes"*, total funding EUR 24.860 (Type: "Conto terzi", **Role:** Scientific advisor) (2015)
- Raco S.p.a., *"Non-contact measurement for in-line quality control"*, total funding EUR 15.000. **Role:** scientific advisor (2012)
- Telecom Italia S.p.a., *"Software-based sensor for depth measurement on mobile phones"*, total funding EUR 20.000. **Role:** director of the project (2011)
- CiGraph S.p.a., *"Unsupervised scene reconstruction from a sequence of images"*, total funding EUR 70.000. **Role:** software developer (2011)
- Luxottica S.p.a., *"Fully automated 3D scanning system for small objects"*, total funding EUR 160.000. **Role:** software developer (2009-2010)
- Luxottica S.p.a., *"Engineering distance based shape search engine"*, total funding EUR 10.000. **Role:** software developer (2008)

Interdisciplinary projects

- First Institute of Oceanography, Quingdao (China) (FIO) and CNR-ISMAR, Venice (Italy). *"FIOSMAR Project"*. **Project goal:** Develop state-of-the-art techniques for 3D stereo reconstruction of the moving water surface (and the corresponding space-time wave spectrum) in a large wind tank. **Role:** Senior scientist (2017-2018)
- Korea Institute of Ocean Science and Technology (Korea) and CNR-ISMAR, Venice (Italy). *"Analysis of stereo wave imaging data for the characterization of rogue waves during extreme wave conditions, including typhoons"*. **Project goal:** 3D reconstruction of sea waves to characterize rogue wave events during typhoons. **Role:** Senior scientist (2017-2018)

Teaching

General activities

- Supervisor of a PhD student (ciclo XXXV, borsa ministeriale). Research topic: "Polarization imaging" (2019-today)
- Supervisor of a PhD student (ciclo XXXII, borsa ministeriale). Research topic: "3D structured light scanning" (2018-2020)
- Member of the Teaching Committee of the International PhD Programme in Computer Science of the Ca'Foscari University of Venice. (since 2018).
- Member of the Teaching Committee of the degree course in Computer Science of the Ca'Foscari University of Venice. (since 2018)
- "*Delegato all'orientamento in ingresso*" for the degree course in Computer Science (since 2018)

Upper-division undergraduate courses

- *Geometric and 3D Computer Vision* (48 hours), Università Ca' Foscari Venezia (2020)
- *Computer Vision* (48 hours), Università Ca' Foscari Venezia (2019)
- *Data science (part of the Master in Digital Humanities)* (12 hours), Università Ca' Foscari Venezia (2018)
- *Computer science applications to cultural heritage* (48 hours), Università Ca' Foscari Venezia (2018)
- *Computer Vision* (30 hours), Università Ca' Foscari Venezia (2018)
- *Computer science applications to cultural heritage* (48 hours), Università Ca' Foscari Venezia (2017)
- *Data science (part of the Master in Digital Humanities)* (12 hours), Università Ca' Foscari Venezia (2018)
- *Computer Vision* (30 hours), Università Ca' Foscari Venezia (2017)
- *Data science (part of the Master in Digital Humanities)* (12 hours), Università Ca' Foscari Venezia (2017)
- *Data mining and pattern recognition (part of the Master in Digital Humanities)* (8 hours), Università Ca' Foscari Venezia (2016)

Lower-division undergraduate courses

- *Tecnologie e applicazioni Web* (48 hours), Università Ca' Foscari Venezia (2020)
- *Lab of Web Technologies* (30 hours), Università Ca' Foscari Venezia (2019)
- *Tecnologie e applicazioni Web* (48 hours), Università Ca' Foscari Venezia (2019)
- *Tecnologie e applicazioni Web* (48 hours), Università Ca' Foscari Venezia (2018)
- *Preparatory course on mathematics* (20 hours), Università Ca' Foscari Venezia (2016)
- *Discrete Mathematics* (18 hours), Università Ca' Foscari Venezia (2015)

Post-diploma courses

- *Data Science* (4 hours), course for high school teachers offered as part of the "*Progetto Lauree Scientifiche*" (PLS). 2019
- *JQuery Mobile and Apache Cordova* (8 hours), FTE course managed by Sive Formazione S.r.l. (2017)
- *Introduction to Node.js* (4 hours), FTE course managed by Sive Formazione S.r.l. (2017)
- *Android App Programming* (12 hours), Istituto Tecnico Industriale Statale "Max Planck" (2016)

Teaching assistant

- *Linguaggi per la Rete* (30 hours), Università Ca' Foscari Venezia (2015)
- *Computer Vision* (20 hours), Università Ca' Foscari Venezia (2014)
- *Calcolo 2* (30 hours), Università Ca' Foscari Venezia (2013)
- *Calcolo 1* (30 hours), Università Ca' Foscari Venezia (2012)

Thesis advisory or co-advisory

PhD thesis

- Pistellato Mara, *"Structured-Light 3D Reconstruction and Applications"*, 2020. **Supervisor**

Master thesis

- Melanciuc Doina, *"Melting Sources Meta Library"*, 2018. **Supervisor**

Bachelor thesis

- Yeh Riccardo Xu, *"Sviluppo progetto Android in linguaggio kotlin per gestione comande di un ristorante"*, 2020. **Supervisor**
- Ormitti Filippo, *"Integrazione tra Sugarcrm e LivePerson"*, 2020. **Supervisor**
- Carraro Matteo, *"Web Application per la visualizzazione e previsione di PM10 e Ozono"*, 2019. **Supervisor**
- Cecchini Davide, *"Sviluppo di un'applicazione web per il cheating detection nei sondaggi online"*, 2019. **Supervisor**
- Jasari Besar, *"Sistema di Parcheggio Automatico"*, 2019. **Supervisor**
- De Liberali Giacomo, *"Sistema di Gestione Intership"*, 2018. **Supervisor**
- Dainsese Fabio, *"Una web application per la didattica della Computer Vision"*, 2018. **Supervisor**

Awards and recognitions

Scientific awards

- Winner of the best paper award for the journal "Computers & Geosciences" (impact factor 2.56, 5-year impact factor 2.89, SJR 1.35). Manuscript title: *WASS: An open-source pipeline for 3D stereo reconstruction of ocean waves.* (2017)
- Winner of *Premi alla Ricerca 2015 categoria "dottorandi e/o neodottori di ricerca"*, issued by Università Ca' Foscari Venezia to young researchers and PhD students (2015)
- Winner of the best research work, issued by Università Ca' Foscari Venezia, for the scientific achievements obtained during PhD studies (2011 and 2013)

Industrial awards

- Winner of the #WCAP start-up accelerator program issued by "TIM S.p.A" to support the initial development of structured light scanning solutions of DigitalMetrix s.r.l. (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 3 post-doc positions at Università Ca' Foscari Venezia (2014-2017)
- PhD studies funded by national grant (2012-2014)

Editorial boards membership

- Editor of the special issue *"Spatially Distributed Sea Wave Measurements"*. Journal "Marine Science and Engineering" IF. 1.73. (2020)
- Editor of the special issue *"Applications and Challenges of Internet of Underwater Things"*. Journal "Sensors" IF. 3.03. (2020)
- Local chair of *IAPR Joint International Workshops on Statistical techniques in Pattern Recognition (SPR 2020) and Structural and Syntactic Pattern Recognition (SSPR 2020).*
- Member of the program committee for the *"International Aerial Archaeology Conference"* (AARG 2018), focusing on technologies for 3D reconstruction of archaeological sites, remote sensing and coastal environment monitoring. (2018)

International conferences and workshops

- Oral presentation at the ECCV workshop "4th Workshop on Computer Vision for Art Analysis" (VISART2018). Keynote title: "Saliency-Driven Variational Retargeting for Historical Maps". 09/09/2018
- Oral presentation at the workshop "Measuring, Modelling and Predictiong Marine Environments: State of the Art and Challenges" (THEMES 2017). Keynote title: "A new technique for sea-current estimation from 3D stereo data". 15-17/11/2017.
- Invited speaker to the "2nd Ocean Surface Waves and Wave-Coupled Processes", Quingdao, China. Keynote topic was the development of a stereo system for the 3D reconstruction of water surface in a water tank. 10-12/10/2017.
- Invited speaker to the "19 th Pacific Asian Marginal Seas meeting" (PAMS2017). Keynote title: "Accurate space-time observation of oceanic extreme waves using stereo wave imaging systems". 11-13/04/2017

- Oral presentation at the workshop "Measuring, Modelling and Predictiong Marine Environments: State of the Art and Challenges" (THEMES 2016). Keynote title: "A Surface Regression Approach for Sea Temperature and Salinity Enforcing Hydrostatic Equilibrium". 23-25/11/2016

- Oral presentation at the conference "Software and Emerging Technologies for Education, Culture, Entertainment , and Commerce" (SETECEC 2012). Keynote title: "A Practical Setup for Projection-Based Augmented Maps". 28-29/03/2012

- Oral presentation at the conference "Software and Emerging Technologies for Education, Culture, Entertainment , and Commerce" (SETECEC 2012). Keynote title: "Learning Computer Vision Through the Development of a Camera-Trackable Game Controller". 28-29/03/2012

- Oral presentation at the "First Joint Conf. 3D Imaging, Modeling, Processing, Visualization, Transmission" (3DIMPVT2011). Keynote title: "Image-Space Marker Detection and Recognition using Projective Invariants". 16-19/05/2011

Events, communication and science popularization

Newspaper articles

- *"Osservare il mare in tre dimensioni - una nuova tecnologia italiana"*, published on the italian newspaper *"Corriere della Sera"*, 2017 February 1^{st}
http://www.corriere.it/video-articoli/2017/02/01/osservare-mare-tre-dimensioni/bdf3c360-e872-11e6-b85e-cfb9b1bcef6b.shtml

TV appearances

- Geo&Geo, RAI 3 (Italian national public channel), Illustration of the basic principles of contact-less 3D reconstruction and presentation of a prototype scanning machine developed at Università Ca' Foscari Venezia (2012)

Events and exhibitions

- VenetoNight 2017 (European Commission Funded Researchers' Night), Computer Vision and 3D reconstruction demo, *"Sea-waves 3D reconstruction"*, Università Ca' Foscari Venezia (2017)

- VenetoNight 2014 (European Commission Funded Researchers' Night), Computer Vision and Artificial Intelligence demo, *"Virtual Book"*, Università Ca' Foscari Venezia (2014)

- VenetoNight 2013 (European Commission Funded Researchers' Night), Computer Vision and Artificial Intelligence demo, *"3D Interactive table"*, 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)

- 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)

Technical Skills

- 3D reconstruction and Camera calibration
- Image processing
- Machine learning
- Computational geometry
- Linear and non-linear numerical optimization

Software development

- Matlab® technical computing language
- C++, C, Javascript, Python, Objective-C, C# and Java programming languages (in order of proficiency)
- KERAS Deep-Learning framework
- GPGPU frameworks (Thrust, ArrayFire, Tensorflow, etc.)
- Qt and .NET framework
- Javascript-based web stacks
- CMake build system and git VCS

Mobile/embedded applications development

- Google Android and Apple iOS
- OpenGL ES frameworks, shaders programming
- ARM programming for embedded platforms
- Embedded Linux

Computer graphics

- OpenGL and DirectX frameworks
- Unity game engine

Professional services

Conferences referee

European Conference of Computer Vision (ECCV) 2018, 23rd ACM Symposium on Virtual Reality Software and Technology (VRST 2017), 26th IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2013), 23th International Joint Conference on Artificial Intelligence (IJCAI 2013), 11th Int. Conf. on Information Systems and Industrial Management (CISIM 2012).

Journals referee

IET Computer Vision; IET Image Processing; Pattern Recognition; Pattern Recognition Letters; Machine Vision and Application.

Scientific collaborations

- *CNR ISMAR*, Italy, Dr. Alvise Benetazzo
- *Imperial College*, UK, Dr. Adrian Callaghan
- *First Institute of Oceanography (FIO)*, Qingdao, P.R. China, Prof. Dr. Fangli Quiao
- *Korea Institute Of Ocean Science and Technology (KIOST)*, Korea. Dr. Jeseon Yoo

Bibliometrics[1]

H-index: 12

Number of publications: 54

Number of citations: 473 (in 350 documents)

Orcid ID: orcid.org/0000-0001-6668-1556

Scopus Author ID: 39261114300

[1]Data according to Scopus (Author ID 39261114300). Last update February 21, 2020

Publications

International journals

1. Pistellato, M., Bergamasco, F., Albarelli, A., Cosmo, L., Gasparetto, A., Torsello, A. *"Robust phase unwrapping by probabilistic consensus"*, Optics and Lasers in Engineering, vol. 121, pp. 428-440, 2019
   DOI: 10.1016/j.optlaseng.2019.05.006

2. Benetazzo, A., Cavaleri, L., Ma, H., Jiang, S., Bergamasco, F., Jiang, W., Chen, S., Qiao, F. *"Analysis of the effect of fish oil on wind waves and implications for air-water interaction studies"*, Ocean Science, vol. 15, pp. 725-743, 2019
   DOI: 10.5194/os-15-725-2019

3. Benetazzo, A., Bergamasco, F., Yoo, J., Cavaleri, L., Kim, S.-S., Bertotti, L., Barbariol, F., Shim, J.-S. *"Characterizing the signature of a spatio-temporal wind wave field"*, Ocean Modelling, vol. 129, pp. 104-123, 2018
   DOI: 10.1016/j.ocemod.2018.06.007

4. Benetazzo, A., Serafino, F., Bergamasco, F., Ludeno, G., Ardhuin, F., Sutherland, P., Sclavo, M., Barbariol, F. *"Stereo imaging and X-band radar wave data fusion: An assessment"*, Ocean Engineering, vol. 152, pp. 346-352, 2018
   DOI: 10.1016/j.oceaneng.2018.01.077

5. Benetazzo, A., Ardhuin, F., Bergamasco, F., Cavaleri, L., Guimarães, P.V., Schwendeman, M., Sclavo, M., Thomson, J., Torsello, A. *"On the shape and likelihood of oceanic rogue waves"*, Scientific Reports, vol. 7, 2017
   DOI: 10.1038/s41598-017-07704-9
   [5-year IF: 4.84]

6. Bergamasco, F., Torsello, A., Sclavo, M., Barbariol, F., Benetazzo, A. *"WASS: An open-source pipeline for 3D stereo reconstruction of ocean waves"*, Computers and Geosciences, vol. 107, pp. 28-36, 2017
   DOI: 10.1016/j.cageo.2017.07.001
   [5-year IF: 2.81]

7. Alvise , B., Barbariol , F., Bergamasco , F., Carniel , S., Sclavo , M. *"Space-time extreme wind waves: Analysis and prediction of shape and height"*, Ocean Modelling, vol. 113, pp. 201-216, 2017
   DOI: 10.1016/j.ocemod.2017.03.010

8. Barbariol, F., Alves, J.-H.G.M., Benetazzo, A., Bergamasco, F., Bertotti, L., Carniel, S., Cavaleri, L., Y. Chao, Y., Chawla, A., Ricchi, A., Sclavo, M., Tolman, H. *"Numerical modeling of space-time wave extremes using WAVEWATCH III"*, Ocean Dynamics, vol. 67, pp. 535-549, 2017
   DOI: 10.1007/s10236-016-1025-0
   [IF: 1.59]

9. Bergamasco, F., Albarelli, A., Cosmo, L., Rodola, E., Torsello, A. *"An Accurate and Robust Artificial Marker Based on Cyclic Codes"*, IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 38, pp. 2359-2373, 2016
   DOI: 10.1109/TPAMI.2016.2519024
   [5-year IF: 8.32]

10. Bergamasco, F., Benetazzo, A., Barbariol, F., Carniel, S., Sclavo, M. *"Multi-view horizon-driven sea plane estimation for stereo wave imaging on moving vessels"*, Computers and Geosciences, vol. 95, pp. 105-117, 2016
DOI: 10.1016/j.cageo.2016.07.012
[5-year IF: 2.81]

11. Benetazzo, A., Barbariol, F., Bergamasco, F., Torsello, A., Carniel, S., Sclavo, M. *"Stereo wave imaging from moving vessels: Practical use and applications"*, Coastal Engineering, vol. 109, pp. 114-127, 2016
DOI: 10.1016/j.coastaleng.2015.12.008
[5-year IF: 3.404]

12. Albarelli, A., Cosmo, L., Bergamasco, F., Sartoretto, F., Torsello, A. *"A 5 degrees of freedom multi-user pointing device for interactive whiteboards"*, Pattern Analysis and Applications, vol. 19, pp. 237-250, 2016
DOI: 10.1007/s10044-015-0457-3
[IF: 1.22]

13. Albarelli, A., Cosmo, L., Bergamasco, F., Sartoretto, F. *"Phase-based spatio-temporal interpolation for accurate 3D localization in camera networks"*, Pattern Recognition Letters, vol. 63, pp. 1-8, 2015
DOI: 10.1016/j.patrec.2015.05.014
[5-year IF: 2.16]

14. Sclavo, M., Barbariol, F., Bergamasco, F., Carniel, S., Benetazzo, A. *"Italian seas wave extremes: a preliminary assessment"*, Rendiconti Lincei, vol. 26, pp. 25-35, 2015
DOI: 10.1007/s12210-015-0380-y

15. Leckler, F., Ardhuin, F., Peureux, C., Benetazzo, A., Bergamasco, F., Dulov, V. *"Analysis and interpretation of frequency-wavenumber spectra of young wind waves"*, Journal of Physical Oceanography, vol. 45, pp. 2484-2496, 2015
DOI: 10.1175/JPO-D-14-0237.1
[IF: 3.13]

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Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base art. 13 del D. Lgs. 196/2003

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