



Alessio Calantropio

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ABOUT MYSELF

I graduated in Architecture at Politecnico di Torino, with a thesis on the use of UAVs for safety applications in construction sites and technical measures for seismic emergency response. In 2023 I obtained a Ph.D in Geomatics—Architectural and Landscape Heritage, with a thesis focused on Geomatic techniques for the documentation of the Underwater Cultural Heritage. I have extensive experience of underwater data acquisition and processing, marine and coastal 2D and 3D mapping, and drones and their application for research, survey, humanitarian relief, public safety, built heritage monitoring and damage assessment.

EDUCATION AND TRAINING

05/2019 – 05/2023 Torino, Italy

PHD IN ARCHITECTURAL AND LANDSCAPE HERITAGE Politecnico di Torino

Laboratory of Geomatics for Cultural Heritage (Lab G4CH).
PoliTO Interdepartmental Centre for Service Robotics (PIC4SeR).

Field of study ICAR/06 Topography and Cartography | **Final grade** Cum laude |

Thesis Geomatic techniques for the documentation of the Underwater Cultural Heritage

08/2021 – 12/2021 Limassol, Cyprus

ERASMUS+ PROGRAMME CUT - Τεχνολογικό Πανεπιστήμιο Κύπρου (Cyprus University of Technology)

Visiting researcher at the Photogrammetric Vision Lab

2014 – 2017 Torino, Italy

MASTER OF SCIENCE IN ARCHITECTURE CITY & CONSTRUCTION Politecnico di Torino

Field of study LM-4: Architecture and architectural engineering | **Final grade** 110/110 cum laude |

Thesis Drones application for safety in construction sites and in technical measures for seismic emergency response (Mentioned by the degree committee and published by AiFOS)

08/2015 – 06/2016 Stockholm, Sweden

ERASMUS+ PROGRAMME KTH - Kungliga Tekniska Högskolan (Royal Institute of Technology)

2011 – 2014 Torino, Italy

BACHELOR'S DEGREE IN ARCHITECTURE Politecnico di Torino

Field of study L-17: Architecture | **Final grade** 101/110

WORK EXPERIENCE

01/09/2023 – CURRENT Sassari, Italy

RESEARCH FELLOW UNIVERSITY OF SASSARI

- Research activities in the framework of the Italian PRIN MANATEE: Monitoring and Mapping of Marine Habitat with Integrated Geomatics Technologies.
- Research activities for the NAUTILUS Project: uNder And throUgh waTer datasets for geospatial stUdies

Research topics: underwater data acquisition and processing, marine and coastal 2D and 3D mapping, benchmark datasets, web-GIS

Business or Sector Professional, scientific and technical activities | **Department** DUMAS - Dipartimento di Scienze Umanistiche e Sociali |

Email acalantropio@uniss.it

2023 – 2024 Sassari, Italy

TEACHING ASSISTANT UNIVERSITY OF SASSARI

- Topography and Cartography - Security and International cooperation (40005038)
- Prof. Erica Nocerino (2023/2024)
- Topography and Cartography - Languages, Cultures and Techniques for Tourism (40005038)
- Prof. Erica Nocerino (2023/2024)
- Geomatics - Land and Environment Management (A001802)
- Prof. Erica Nocerino (2023/2024)
- Geomatics - Planning, Management, and Tourism Promotion of Cultural and Natural Itineraries (A001802)
- Prof. Erica Nocerino (2023/2024)

Business or Sector Education | **Website** www.uniss.it

01/12/2017 – 30/04/2019 Torino, Italy

RESEARCH FELLOW POLITECNICO DI TORINO

- Research activities for the Torino 1911 Project: Geomatics and 3D modeling for the development of Web-Based applications for the visualization of point clouds.
- Research activities in the framework of the Italian PRIN GAMHer: Geomatics Data Acquisition and Management for Landscape and Built Heritage in a European Perspective.

Research topics: Drones and their application for research, survey, humanitarian relief, public safety, built heritage monitoring and damage assessment.

Business or Sector Professional, scientific and technical activities | **Department** DAD - Dipartimento di Architettura e Design |

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2014 – 2022 Torino, Italy

TEACHING ASSISTANT POLITECNICO DI TORINO

- PCTO - Rischi Naturali Digi-Tech (01DZOSN)
- Prof. Andrea Maria Lingua (2021/2022)
- Restoration and integrated conservation A - Module of Geomatics (01VNWPX)
- Prof. Filiberto Chiabrando (2021/2022)
- Atelier Compatibility and sustainability of architectural restoration D - Module of Geomatics (02UPEQN)
- Dr. Erik Costamagna (2020/2021)
- Laboratory of Geomatics for Architecture modeling (01PRYLU - 01PRUPM)
- Prof. Filiberto Chiabrando (2020/2021)
- Prof. Antonia Teresa Spanò (2019/2020)
- Prof. Fulvio Rinaudo (2018/2019)
- Prof. Filiberto Chiabrando (2016/2017)
- Prof. Antonia Teresa Spanò (2014/2015)
- Fundamentals of Architectural Technology (01SPXPM)
- Prof. Elena Piera Montacchini (2014/2015)
- Architectural construction Studio (02NBKPM)
- Prof. Laura Sasso (2013/2014)

Business or Sector Education | **Website** <https://www.polito.it>

2016 – 2020 Frankfurt, Germany

STUDENT AMBASSADOR DJI GMBH

Industrial representative of DJI at Politecnico di Torino.

Website www.dji.com

05/2017 – 06/2017 Catania, Italy

LECTURER DTN GROUP S.R.L.

Lecturer of "Health & Safety at workplaces" in training courses accredited to the Sicily Region

Business or Sector Education | **Website** www.dtn.it

2016 – 2017 Torino, Italy

IT STAFF - INFORMATION TECHNOLOGY AREA POLITECNICO DI TORINO

Prepare, maintain and re-order the documentation and the equipment needed to carry out laboratory tests and the very functioning of the laboratory. Support activities in laboratories, vigilance on the correct use of the equipment, support for users and maintenance.

Website <https://www.polito.it>

2016 – 2016 Torino, Italy

JUDICIARY POLICE SUPPORT STAFF (INTERNSHIP) A.S.L. TORINO 1 (S.PRE.S.A.L.)

Supervision and control in construction sites, for verification of compliance with legislation on health and safety at work (D.Lgs. 81/08 e s.m.i)

Website <http://www.asl102.to.it>

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**




Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
SWEDISH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

Digital Skills - Test Results

 Information and data literacy	ADVANCED	Level 6 / 6
 Communication and collaboration	ADVANCED	Level 6 / 6
 Digital content creation	ADVANCED	Level 6 / 6
 Safety	ADVANCED	Level 6 / 6
 Problem solving	ADVANCED	Level 6 / 6

Results from a [self-assessment](#) based on [The Digital Competence Framework 2.1](#)

JOB-RELATED SKILLS

Skills

The main job-related skills are connected to the knowledge, documentation and monitoring of the architectural, archaeological and environmental heritage. These are mainly related to:

- Underwater data acquisition and processing;
- Marine and coastal 2D and 3D mapping;
- Survey and 3D modeling and analysis (3DReshaper, CloudCompare, MeshLab);
- Topography and Cartography;
- Photogrammetry and image matching processing (MicMac, Photoscan, Pix4D);
- Laser scanner and ToF cameras;
- GIS and remote sensing;
- UAV - Unmanned Aerial Vehicle (or Drones);
- SLAM - Simultaneously localization mapping;
- Rapid Mapping;
- Development and analysis of open-source systems for web navigation of 3D meshes and point clouds based on HTML, CSS & JavaScript.

Certificates

- PADI Open Water (2008UQ9308)
- PADI Advanced Open Water (2008UU6234)

- PADI Enriched Air Diver (2108UB9150)
- PADI Diver Propulsion Vehicle (2108UC7514)
- PADI Deep (2408UZ6306)
- PADI EFR – Primary Care (CPR) & Sec Care (1st) w/ AED (2408UH8740)
- PADI Rescue Diver (2408UH8769)
- PADI Emergency Oxygen Provider (2409UM7143)
- UAV Pilot (attestation N° I.APRA.012801);
- Health & safety at workplaces trainer (crit. 2 of D.M. 6/3/2013);
- Safety coordinator in construction sites (art. 98, par. 4 of D.Lgs. n. 81/2008).

MANAGEMENT & LEADERSHIP SKILLS

MOU - Memorandum of Understanding - facilitated

- Politecnico di Torino & Soprintendenza del Mare Regione Sicilia (09/2022-09/2024)
- Politecnico di Torino & World Food Programme (11/2020 - 07/2022)
- Politecnico di Torino & UNICEF (10/2019 - 10/2022)
- Politecnico di Torino & DJI (11/2018 - 11/2021)
- Politecnico di Torino & ACISMOM (11/2020 - 11/2022)

Events organized

- Co-Organizer in the second edition of the ISPRS and SIFET Summer School "SUNRISE - Seashore and Underwater documentation of aRchaeological heritage palimpSests and Environment" (08-14/09/2024).
- Co-organizer of the ISPRS tutorial "Benchmarking underwater photogrammetry" at the ISPRS Technical Commission II Symposium in Las Vegas, USA (10/06/2024).
- Co-organizer of the ISPRS WG II/7 & NAUTILUS project - Online user meeting (15/01/2024).
- Co-Organizer in the fist edition of the ISPRS-SC Summer School "SUNRISE - Seashore and Underwater documentation of aRchaeological heritage palimpSests and Environment" (03-09/09/2022).
- Co-organizer of the course "MicMac in a Nutshell" (08-11/05/2020).
- Organizer and chair of the seminar "La Geomatica e il rilievo metrico 3D: tecniche avanzate per la documentazione dell'architettura" at RESTRUCTURA 2019 (14/11/2019).
- Co-organizer of the conference "DRONES: Current application and future perspectives" at the Politecnico di Torino (18/05/2018).
- Co-organizer and tutor of the 2nd MicMac course at the Politecnico di Torino (19-22/02/2018).
- Organizer and chair of the seminar "UAV DAY" at the Politecnico di Torino (25/05/2017).

Social and political activities

- Head of the Public Relations Committee and press director at the Provincial Students' Council of Siracusa (2009/2010).
- Member of the Guarantee Committee and Student Representative at Liceo Scientifico Statale Luigi Einaudi High School of Siracusa (2009/2010).

PATENTS

Italian

[Pending] CONETTO (CONical markEr for underwaTer Topographic Operations)
 Italian patent - request n. 102023000026709 of 14/12/2023
 Rif. 2023-076 - Prot. Num. 100096/ VI/18 - 27/10/2023 (Politecnico di Torino)
 Inventorship: Alessio Calantropio, Iosif Horea Bendea, Filiberto Chiabrando
 Ownership: Politecnico di Torino

HONOURS AND AWARDS

Honours and awards

- AUTeC - AUTeC PhD Thesis Award – 2024.
- IEEE - Best poster paper Award at the International Conference on Interactive Media, Smart Systems and Emerging Technologies (IMET) - 2022.
- ISPRS - Travel Grant for attending the Geospatial Week - 2019.
- SIFET - Società Italiana di Fotogrammetria E Topografia. Best poster paper Award for "Unconventional Positioning and Mapping" - 2019.
- AiFOS - Associazione Italiana Formatori ed Operatori della Sicurezza sul lavoro. Best Master Thesis Award for "Health & Safety at workplaces" - 2017.
- SIFET - Società Italiana di Fotogrammetria E Topografia. Best poster paper Award for "Earthquakes and Emergencies" - 2017.

NETWORKS & MEMBERSHIPS

Memberships

- ISPRS WG II/9: Underwater Data Acquisition and Processing (Member).
- ISPRS SC - The International Society for Photogrammetry and Remote Sensing Student Consortium (Member).

- ECOP - Early Career Ocean Professional - UN Ocean Decade (Member).
- SIFET - Società Italiana di Fotogrammetria E Topografia (Member of the "Communication, Media & Social" commission).
- CIPA EP - Comité International de Photogrammétrie Architecturale - Emerging Professionals (Regular member).
- WFP UAS TWG - World Food Programme Unmanned Aircraft System Technical Working Group (Co-Chair of the Imagery Thematic Area).
- IEDO - International Emergency Drone Organisation (Regular member).
- GEER - Geotechnical Extreme Events Reconnaissance (Regular member).
- AIFES - Associazione Italiana Formatori Esperti in Sicurezza sul Lavoro (Trainer).
- DIRECT - Disaster REcovery Team (Tutor member).

INTERNATIONAL RESEARCH PROJECTS

International research projects

- (2024) Recipient of the Youth Research Mobility project GRASS – Geomatics for Research and vAlorization of Submerged Sites, as visiting scholar at the Cultural Heritage Engineering Initiative (CHEI), Qualcomm Institute, University of California San Diego in California.
- (2023) Collaboration with the ISPRS Scientific Initiative "NAUTILUS" (uNder And throUgh waTer datasets for geospatiaL stUdieS).
- (2020) Co-Investigator in the ISPRS Educational and Capacity Building Initiative "UP4DREAM" (UAV Photogrammetry for Developing Resilience and Educational Activities in Malawi).
- (2020) Collaboration with the Submerged Resource Center of the US National Park Service and the University of California San Diego on the image-processing experimentation of shipwrecks datasets in Biscayne National Park.
- (2020) Involvement in the Interreg Italy-Croatia project "UnderwaterMuse", for the valorization, promotion and fruition of the underwater archaeological heritage in the Adriatic Sea.
- (2019) Member of the Steering Committee in the pilot "Sustained UAV Operations Malawi" (UK Department For International Development - DFID).
- (2018/2020) Involvement in the project "The Complete Geophysical Survey of the Valley of the Kings", for the realization of multi-sensor and multi scale 3D models of The Valley of the Kings in Luxor, Egypt.
- (2017/2018) Collaboration with IGN (French National Geographic Institute) and ENSG (French national school for geographic sciences) for the realization of the "GEMINI" MicMac GUI.

THESIS (AS AUTHOR)

PhD Thesis

Calantropio, A. (2023). Geomatic techniques for the documentation of the Underwater Cultural Heritage

Link <https://iris.polito.it/handle/11583/2978503>

Master thesis

Calantropio, A. (2017). *L'utilizzo dei Droni per la Sicurezza nei Cantieri e negli Interventi Tecnici in Emergenza Sismica*

Link <https://webthesis.biblio.polito.it/6053/>

THESIS (AS SUPERVISOR)

Master thesis

Sara Moradi

Photogrammetric Underwater and UAS Surveys of Archeological Sites: The Case Study of the Roman Columns of Porto Cesareo. Rel. Filiberto Chiabrando, Alessio Calantropio. Politecnico di Torino, Corso di laurea magistrale in Architettura Per Il Progetto Sostenibile, 2023

Mehmet Ali Kurt

The Contribution of UAV Photogrammetry for 3D Documentation. Accuracy evaluation using the Euro SDR Benchmark and Villa Ghia test sites.

Rel. Filiberto Chiabrando, Alessio Calantropio, Lorenzo Teppati Lose'. Politecnico di Torino, Corso di laurea magistrale in Architettura Per Il Progetto Sostenibile, 2022

Bachelor thesis

Erica Forti

Fotogrammetria subacquea: il molo di Augusto

Rel. Filiberto Chiabrando, Alessio Calantropio. Politecnico di Torino, Corso di laurea magistrale in Ingegneria Civile, 2023

SCIENTIFIC PUBLICATIONS

2024

A. Calantropio and F. Chiabrando, "Georeferencing Strategies in Very Shallow Waters: A Novel GCPs Survey Approach for UCH Photogrammetric Documentation," *Remote Sensing*, vol. 16, iss. 8, p. 1313, 2024.

F. Menna, E. Nocerino, and A. Calantropio, "High-accuracy height differences using a pressure sensor for ground control points measurement in underwater photogrammetry," *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. 48, p. 273–279, 2024.

F. Menna, S. McAvoy, E. Nocerino, B. Tanduo, L. Giuseffi, A. Calantropio, F. Chiabrando, L. Teppati Losè, A. M. Lingua, S. Sandin, and others, "POSER: an oPen sOurce Simulation platform for tEaching and tRaining underwater photogrammetry," *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. 48, p. 265–272, 2024.

M. Grömer, E. Nocerino, A. Calantropio, F. Menna, A. Dreier, L. Winiwarter, and G. Mandlbürger, "High-detail and low-cost underwater inspection of large-scale hydropower dams," *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. 48, p. 115–120, 2024.

A. Calantropio, F. Menna, D. Skarlatos, C. Balletti, G. Mandlbürger, P. Agrafiotis, F. Chiabrando, A. M. Lingua, A. Giaquinto, and E. Nocerino, "Under and Through Water Datasets for Geospatial Studies: the 2023 ISPRS Scientific Initiative "NAUTILUS"," *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. 10, p. 33–40, 2024.

A. Calantropio, F. Chiabrando, F. Menna, and E. Nocerino, "Quantitative Evaluation of Color Enhancement Methods for Underwater Photogrammetry in Very Shallow Water: a Case Study," *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. 10, p. 25–32, 2024.

A. Calantropio and F. Chiabrando, "Underwater Cultural Heritage Documentation Using Photogrammetry," *Journal of Marine Science and Engineering*, vol. 12, iss. 3, 2024.

2023

A. Calantropio, F. Chiabrando, «The Evolution of the Concept of Underwater Cultural Heritage in Europe: A Review of International Law, Policy, and Practice», in *Heritage*, 6(12), 7660-7673, 2023.

C. Balletti, A. Capra, A. Calantropio, F. Chiabrando, *et al.*, «THE SUNRISE SUMMER SCHOOL: AN INNOVATIVE LEARNING-BY-DOING EXPERIENCE FOR THE DOCUMENTATION OF ARCHAEOLOGICAL HERITAGE», in *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 48, 147-154, 2023.

2022

M. Vlachos, D. Skarlatos, A. Calantropio, e F. Chiabrando, «An adhoc UW image colour correction method and the impact on image feature matching & SfM-MVS 3D reconstruction», in *2022 International Conference on Interactive Media, Smart Systems and Emerging Technologies (IMET)*, IEEE, 2022, pp. 1–2.

M. Vlachos, A. Calantropio, D. Skarlatos, e F. Chiabrando, «MODELLING COLOUR ABSORPTION OF UNDERWATER IMAGES USING SFM-MVS GENERATED DEPTH MAPS», *The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, vol. 43, pp. 959–966, 2022.

2021

A. Calantropio, D. Rissolo, e E. Kovacs, «Pre- and self-calibration of underwater cameras for photogrammetric documentation of archaeological sites», in *Proceedings of the ARQUEOLÓGICA 2.0 - 9th International Congress & 3rd GEORES - GEomatics and pREservation Lemma: Digital Twins for Advanced Cultural Heritage Semantic Digitization.*, Valencia: Editorial Universitat Politècnica de València, 2021, pp. 512–514. doi: [10.4995/arqueologica9.2021.13259](https://doi.org/10.4995/arqueologica9.2021.13259).

A. Calantropio, F. Chiabrando, J. Comino, A. M. Lingua, P. F. Maschio, e T. Juskauskas, «UP4DREAM capacity building project: UAS based mapping in developing countries», *INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES*, vol. XLIII-B5-2021, pp. 65–72, 2021, doi: [10.5194/isprs-archives-XLIII-B5-2021-65-2021](https://doi.org/10.5194/isprs-archives-XLIII-B5-2021-65-2021).

A. Calantropio, F. Chiabrando, M. Codastefano, e E. Bourke, «Deep learning for automatic Building Damage Assessment: Application in post-disaster scenarios using UAV data», in *V-1-2021*, ISPRS, 2021, pp. 113–120. doi: [10.5194/isprs-annals-V-1-2021-113-2021](https://doi.org/10.5194/isprs-annals-V-1-2021-113-2021).

A. Calantropio, F. Chiabrando, e R. Auriemma, «Photogrammetric Underwater and UAS surveys of Archaeological Sites: the case study of the roman shipwreck of Torre Santa Sabina», in *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Copernicus GmbH, giu. 2021, pp. 643–650. doi: [10.5194/isprs-archives-XLIII-B2-2021-643-2021](https://doi.org/10.5194/isprs-archives-XLIII-B2-2021-643-2021).

R. Auriemma *et al.*, «Underwater archaeological surveys in Salento waters: results and methods», in *FOG special volume: Proceedings of the 6th European Conference on Scientific Diving 2021*, Freiberg: Broder Merkel & Mandy Hoyer, 2021, pp. 96–105.

R. Auriemma, A. Calantropio, F. Chiabrando, e L. Coluccia, «Photogrammetric techniques for digitalization of underwater cultural assets: The case study of the Torre Santa Sabina's Shipwreck», in *Book of Abstracts of the 2nd International Conference on the Promotion of Accessible Underwater Cultural Heritage Sites "Dive in Blue Growth"*, MeDryDive project, COSME Programme, 2021, pp. 63–63.

R. Auriemma *et al.*, «Shipwrecks stories in a "trap bay": Research and valorization in Torre S. Sabina (Brindisi, Italy)», in *DEGUWA Annual Meeting on Underwater Archaeology IN POSEIDON'S REALM XXVI «Safety and Waterways»*, TRANSMARE Institut of the University of Trier, 2021, pp. 7–7.

F. Porcelli *et al.*, «Integrated Geophysics and Geomatics Surveys in the Valley of the Kings», *Sensors*, vol. 20, fasc. 6, p. 1552, mar. 2020, doi: [10.3390/s20061552](https://doi.org/10.3390/s20061552).

E. Pontoglio *et al.*, «UAV data acquisition and analysis for a Cultural Landscape Heritage: the emergency area of the Vallone d'Elva.», in *PROSPETTIVE MULTIPLE: STUDI DI INGEGNERIA, ARCHITETTURA E ARTE*, Pavia: Pavia University Press, 2020, pp. 296–305.

A. Calantropio, F. Chiabrando, e D. Einaudi, «UAV multi-image matching approach for architectural survey in complex environments», in *D-SITE, Drones - Systems of Information on cultural hEritage. For a spatial and social investigation*, Pavia: Pavia University Press, 2020, pp. 98–105.

A. Calantropio, F. Chiabrando, V. De Ruvo, A. Lingua, P. Maschio, e N. Spanò, «Il rilievo metrico integrato della Valle dei Re: software open-source per la documentazione del patrimonio archeologico in Egitto», in *FOSS4G Italia 2020 Raccolta Abstract*, FOSS4G Italia 2020 - Free and Opens Source Software, 2020, pp. 33–34. doi: [10.5281/zenodo.3647630](https://doi.org/10.5281/zenodo.3647630).

A. Calantropio, «L'impiego dei droni per la sicurezza nei cantieri post-sisma», *QUADERNI DELLA SICUREZZA AIFOS*, vol. anno XI, pp. 39–45, 2020.

2019

L. Teppati Lose' *et al.*, «Mappatura speditiva tridimensionale e multi-temporale mediante UAV. I casi di Pescara del Tronto e Accumoli», *ATTI E RASSEGNA TECNICA*, pp. 54–67, 2019.

G. Patrucco, A. Calantropio, G. Sammartano, e L. Teppati Lose', «Tecniche di acquisizioni fotogrammetriche per il rilievo speditivo utilizzando una steadycam commerciale», *ATTI E RASSEGNA TECNICA*, vol. LXXIII, pp. 212–216, 2019.

A. Calantropio, F. Matrone, e A. M. Lingua, «L'integrazione di tecniche fotogrammetriche e MMS nel rilievo metrico dei Beni Culturali», in *Atti della Conferenza Nazionale #ASITA2019*, Milano: Federazione delle Associazioni Scientifiche per le Informazioni Territoriali e Ambientali, 2019, pp. 157–164.

A. Calantropio, F. Chiabrando, e A. T. Spano', «Impiego di tecniche di fotogrammetria digitale speditiva a supporto delle opere provvisorie negli interventi tecnici in emergenza sismica», *BOLLETTINO DELLA SOCIETÀ ITALIANA DI FOTOGRAMMETRIA E TOPOGRAFIA*, vol. 2018, 2019.

A. Calantropio, F. Chiabrando, e A. T. Spano', «Fotogrammetria digitale speditiva a supporto degli interventi di realizzazione di opere provvisorie», *ATTI E RASSEGNA TECNICA*, vol. LXXIII, pp. 198–201, 2019.

A. Calantropio, «The use of UAVs for performing safety-related tasks at post-disaster and non-critical construction sites», *Safety*, vol. 5, fasc. 4, p. 64, set. 2019, doi: [10.3390/safety5040064](https://doi.org/10.3390/safety5040064).

A. Calantropio, F. Matrone, e A. M. Lingua, «Data integration of photogrammetric and laser-visual-inertial odometry based sensors in the metric survey of Cultural Heritage», in *Proceedings of the International Workshop «R3 in GEOMATICS: Research, Results and Review»*, Amsterdam: IOS Press, 2019.

A. Calantropio, F. Chiabrando, D. Einaudi, e L. Teppati Losè, «360° images for UAV multisensor data fusion: first tests and results», *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, vol. 42, fasc. 2/W13, pp. 227–234, 2019.

2018

L. Dezzani, E. Maggi, e A. Calantropio, «Ricostruzione della struttura tardo antica della Porta Piemonte a Susa supportata da tecniche image-based di rilievo 3D», *SEGUSIUM*, vol. 56, pp. 282–294, 2018.

A. Calantropio, G. Patrucco, G. Sammartano, e L. Teppati Losè, «Low-cost sensors for rapid mapping of Cultural Heritage: first tests using a COTS Steadicamera», *APPLIED GEOMATICS*, vol. 10, pp. 31–45, 2018, doi: [10.1007/s12518-017-0199-6](https://doi.org/10.1007/s12518-017-0199-6).

A. Calantropio, F. Chiabrando, e A. T. Spano', «UAV photogrammetry and thematic maps for environmental risk assessment in construction safety», in *Geophysical Research Abstracts (GRA)*, Göttingen: Copernicus GmbH (Copernicus Publications), 2018, pp. 19692–19692.

A. Calantropio, M. P. Deseilligny, F. Rinaudo, e E. Rupnik, «Evaluation of photogrammetric block orientation using quality descriptors from statistically filtered tie points», *INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES*, vol. XLII-2, pp. 185–191, 2018, doi: [10.5194/isprs-archives-XLII-2-185-2018](https://doi.org/10.5194/isprs-archives-XLII-2-185-2018).

A. Calantropio, F. Chiabrando, G. Sammartano, A. Spanò, e L. T. Losè, «UAV strategies validation and remote sensing data for damage assessment in post-disaster scenarios», *INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES*, vol. 42, pp. 121–128, 2018, doi: [10.5194/isprs-archives-XLII-3-W4-121-2018](https://doi.org/10.5194/isprs-archives-XLII-3-W4-121-2018).

A. Calantropio, F. Chiabrando, F. Rinaudo, e L. Teppati Losè, «Use and evaluation of a short range small quadcopter and a portable imaging laser for Built Heritage 3D documentation», *INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES*, vol. XLII-1-71-2018, pp. 71–78, 2018, doi: [10.5194/isprs-archives-XLII-1-71-2018](https://doi.org/10.5194/isprs-archives-XLII-1-71-2018).

A. Calantropio, G. Patrucco, G. Sammartano, e L. TEPPATI LOSE', «Sensori Low-Cost per il mapping speditivo di Beni Culturali. Primi test su di una steadycam Low-Cost», *BOLLETTINO DELLA SOCIETÀ ITALIANA DI FOTOGRAMMETRIA E TOPOGRAFIA*, vol. 3, 2017.

A. Calantropio, E. Colucci, e L. Teppati Losè, «Rapid mapping for Built Heritage at risk using Low-Cost and COTS sensors. A test in the Duomo Vecchio of San Severino Marche», *INTERNATIONAL ARCHIVES OF THE PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCES*, vol. XLII-2/W8, pp. 59-66, 2017, doi: [10.5194/isprs-archives-XLII-2-W8-59-2017](https://doi.org/10.5194/isprs-archives-XLII-2-W8-59-2017).

PEER REVIEW ACTIVITIES

International scientific journals

- [Elsevier] ISPRS Journal of Photogrammetry and Remote Sensing (ISSN 0924-2716)
- [MDPI] Remote Sensing (ISSN 2072-4292)
- [MDPI] Applied Science (ISSN 2076-3417)
- [Elsevier] Environmental Research (ISSN 1096-0953)
- [SISEF] iForest (ISSN 1971-7458)
- [MDPI] Buildings (ISSN 2075-5309)

CONFERENCES & SEMINARS

Conferences

- 11/06/2024 - 14/06/2024 ISPRS Technical Commission II Symposium, Las Vegas, USA
- 14/12/2023 - 15/12/2023 GeoAI: Artificial Intelligence for Geospatial data, Torino, Italy.
- 06/06/2022 - 11/06/2022 XXIVth On-Site Edition ISPRS Congress (International Society for Photogrammetry and Remote Sensing)
- 05/07/2021 - 09/07/2021 XXIVth Digital Event ISPRS Congress (International Society for Photogrammetry and Remote Sensing)
- 26/04/2021 - 28/04/2021 ARQUEOLÓGICA 2.0 & 3rd GEORES 2021
- 31/08/2020 - 02/09/2020 XXIVth Virtual Event ISPRS Congress (International Society for Photogrammetry and Remote Sensing)
- 18/02/2020 - 22/02/2020 FOSS4G-it 2020: Free and Open Source Software for Geospatial. Torino, Italy.
- 12/12/2019 - 13/12/2019 AI4CH: Artificial Intelligence in Geomatics for Cultural Heritage. Torino, Italy.
- 12/11/2019 - 14/10/2019 #ASITA2019. Trieste, Italy.
- 10/10/2019 - 11/10/2019 R3 in GEOMATICS: Research, Results and Review. Napoli, Italy.
- 19/06/2019 - 21/06/2019 64° Convegno Nazionale SIFET. Venezia, Italy.
- 10/06/2019 - 14/06/2019 ISPRS Geospatial Week 2019. Enschede, The Netherlands.
- 06/02/2019 - 08/02/2019 62° 8th International Workshop 3D-ARCH. Bergamo, Italy.
- 30/11/2018 - TOPO@DRONE 2018 - Invited speaker. Athens, Greece.
- 04/06/2018 - 07/06/2018 ISPRS TC II Symposium - Towards Photogrammetry 2020. Riva del Garda, Italy.
- 08/04/2018 - 13/04/2018 EGU - European Geosciences Union - General Assembly 2018. Vienna, Austria.
- 04/09/2017 - 07/09/2017 4th International Conference on Unmanned Aerial Vehicles in Geomatics UAV-g 2017. Bonn, Germany.
- 21/06/2017 - 23/09/2017 62° Convegno Nazionale SIFET. Ragusa, Italy.

Seminars and workshops

- 04/04/2019 - 05/04/2019 - Dronitaly 2019 "Working with Drones". Milano, Italia.
- 25/02/2019 - 27/02/2019 - Workshop PARTHENOS - "Share - Publish - Store - Preserve.
- Methodologies, tools and challenges for 3D use in Social Sciences and Humanities". Marseille,
- 12/12/2018 - 14/12/2018 - Seminar "Introduzione al Python: Deep Learning for Beginners".
- Ancona, Italia.
- 19/02/2018 - 22/02/2018 - "MicMac for UAV & Close Range". Torino, Italia.

Autorizzo il trattamento dei miei dati personali ai sensi della normativa vigente in materia di protezione dei dati personali (GDPR e D.lgs 196/2003).

Siracusa , 14/09/2024



Alessio Calantropio