



LAZAROS GRAMMATIKOPOULOS

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Web : [Personal page](#)
[Tasking Team page](#)

RESEARCH INTERESTS

Photogrammetry, Computer Vision, Remote Sensing, Deep Learning, Geoinformatics, Large-Scale 3D Photogrammetric Surveys, Development of Computer Vision Applications (SfM / SLAM via UAV and Mobile Mapping), Navigation of Robotic Systems, Satellite Data Analysis and Generation of Base maps, Precision Agriculture with Multispectral and Hyperspectral Sensors, Geometric Documentation of Archaeological Monuments/Findings, Metrology, Geographic Information Systems, Fusion of Photogrammetry and Lidar Scanning, Aerial Triangulation (GPS/INS), Development of Sensor Calibration Systems, Extraction of 3D Information from Single Images.

PUBLICATIONS

62 publications in scientific journals and conferences

1090 citations ([Google Scholar](#))

Reviewer for 9 scientific journals

PATENT

[US20230114231A1](#): "Method, computer device and computer programme for extracting information about staircase"

EDUCATION

1999 Diploma in Rural and Surveying Engineering, National Technical University of Athens (NTUA).

2007 PhD, NTUA, School of Rural and Surveying Engineering. Thesis: "Geometric Information from Single Images in Photogrammetry and Computer Vision".

CURRENT TEACHING ACTIVITY

2022 – present Associate Professor, Department of Surveying and Geoinformatics Engineering, University of West Attica (UNIWA) – faculty member since 2010. Teaching/co-teaching of undergraduate courses: "Analytical Photogrammetry", "Photogrammetry and Computer Vision", "3D Data Processing and Visualization", "Mobile Mapping Systems – Unmanned Vehicles", "Introduction to Machine Learning".

2020 – present Teaching in the MSc Programme "Artificial Intelligence and Visual Computing".

2024 – present Coordination and teaching of the Thematic Unit "Photogrammetry" in the MSc Programmes "Documentation and Modeling of Monuments and Archaeological Sites (ATM)" and "Design of Visual Effects and Animation (SOK)" of the Hellenic Open University (HOU).

ADDITIONAL PROFESSIONAL ACTIVITY

2024 – present Head of composition and coordination of the Tasking Team – Earth Observation Satellite Mission Planning and Control Center at the Hellenic Space Center (HSC).

2009 – 2024 Scientific Advisor in Photogrammetry at the company Map (formerly GetMaP), on projects such as: Single Digital Map and National Infrastructure Registry of the Technical Chamber of Greece – TEE (I & II); SPACE 4.0 – Space Technologies and Applications 4.0; LSO/LSO25 for the Hellenic Cadastre; 3D photogrammetric surveys via UAV/Mobile Mapping/Laser Scanner; design and development of specialized photogrammetry, remote sensing and GIS software.

2016 – 2025 Scientific Advisor in Photogrammetry and Computer Vision at the company up2metric, on projects such as: PROTEAS, EPAnEK (*Advanced system for the collection and management of analytical data for the open-to-the-public documentation and conservation of large-scale paintings*); Laser4Twin, Innovation Call of the European programme "Photonics for International Markets and Applications for sustainability"; XR4DRAMA – H2020; MindSpaces (Art-driven adaptive outdoors/indoors design) – H2020; surveys and photorealistic visualizations of monuments and cultural-heritage objects; design and development of specialized Computer Vision software and sensors for robotic systems.

CURRENT RESEARCH PROJECTS

- **VITAFields**: Visual Intelligence for Targeted Agriculture, H2020.
- **3D geometric survey**: Loutró site, Sami, Kefalonia (UAV photogrammetry and TLS)
- **Motion++**: Advance automated vehicle inspection technologies based on 3D Gaussian Splatting
- **Pilot project for orthomosaic production** from high-resolution satellite images – Hellenic Space Center (HSC).
- **Motion**: Combination of Lidar and Images for External Vehicle Inspection – H2020.
- **Meriavino**: ICT AGRIFOOD 2020: Multi-scale Detection and Monitoring of Diseases in Vineyard Production.
- **Laser4Twin**: Development of an Innovative Robotic System for Pipeline Inspection – "Photonics for International Markets and Applications for sustainability".