

Dr. Vassilis Pagounis currently works as a Professor in the Department of Surveying and Geoinformatics Engineering at the University of West Attica. I am an expertise in Geodesy with emphasis in the collection and processing of 3D data and in integrated documentation of Cultural Heritage. In 2000, I obtained my PhD degree in processing methods of geometrical and physical geodata for signal detection with application to the vertical datum at the National Technical University of Athens. Rich experience and related applications in:

- Marine and land geoid and gravity field determination in local and regional scales
- Use of remote sensing satellites to improve the geophysical corrections in satellite
- Altimetry data
- Experience in field surveying
- Experience in computer aided drawing software (CAD)
- Use of the Global Positioning System (GPS) in surveying and road planning applications
- Combination of GPS with GIS for hydraulics, environmental and cadastral studies.

Administration experience:

- 2005-2008 Head of Geodesy and Surveying Laboratory of the Department of Surveying Engineering.
- 2005-2009 Head of Division of Surveying-Photogrammetry-Cartography of the Department of Surveying Engineering.
- 2008-2018 Department Coordinator of Erasmus+
- 2010-2012 Head of the Department of Surveying Engineering.
- 2015-2019 Head of the Department of Surveying & Geoinformatics Engineering.
- 2016-today Head of the Postgraduate Studies Program entitled "Geospatial Technologies"

I have managed several Research Programs as a Scientific Coordinator, out of which I mention the following:

2005 "Modern Methods for the documentation of the Prehistoric buildings of Apollo Sanctuary in Thermo area"

2008 "Geometric documentation and monitoring of Monuments and Sites. Contribution in the pathology of monuments"

2008 "Generating 3D Models for the geometric documentation of monuments. Investigation of the automatic production of orthophotos from multiple images and comparison with commercial software"

2013 "3D laser scanning for the surveying of the slopes of the Castle of Koroni"

2014 "Investigation of Modern Geodetic Methods and Automation Capabilities for Generating a Heritage Documentation Building Information Modeling System. The case of geometric documentation of Thivaiko Kavirio"

2014 "Investigation of Modern Geodetic Methods for Generating 3D Models. The case of geometric documentation of Tomb Castas (Amphipolis, Serres)"

2014 "Survey of Ancient Theater Fthiotidon Thivon using 3D laser scanning"

2015 "Evaluation of the Hellenic Vertical Network in the frame of the European Systems and Control Networks Interconnection – Application in the areas of Attica and Thessaloniki "

2016 "Investigation of Modern Geodetic Methods and Automation Capabilities for Geometric Documentation of Cultural Heritage Monuments. The Case of Geometric Documentation of Dikteo Andron Cave."

I also participated in some research programs as a partner researcher, out of which I mention the following:

2005 "Automatic multi-image photo-texturing of 3D surface models obtained with laser scanning in cultural heritage recording"

2015 "Intergraded Cultural heritage recording. The case of Amykles Apollo Sanctuary."

Relevant Publications:

- M. Doufexopoulou, V. N. Pagounis. Tectonic Implied Results from Geoid and Topography Signals. Physics and chemistry of the Earth (A), Vol. 25, No1, pp. 101-106.
- M. Tsakiri, V. Pagounis, O. Arabatzi. Evaluation of a pulsed terrestrial laser scanner based on ISO standards. Surface Topography: Metrology and Properties, Vol. 3, No 1, 015006.
- V. D. Andritsanos, O. Arabatzi, M. Gianniou, V. Pagounis, I. N. Tziavos, G. S. Vergos, E. Zacharis. Comparison of various GPS processing solutions towards an efficient validation of the Hellenic vertical network: The ELEV.A.T.I.ON project. Journal of Surveying Engineering. Volume 142 Issue 1, February 2016.
- Γ. Αρχοντάκης, Μ. Βλάχου, Ο. Αραμπατζή, Β. Παγούνης. Ο συνδυασμός γεωδαιτικών τεχνικών στις αποτυπώσεις μνημείων. Εφαρμογή στο Ρωμαϊκό Ωδείο Πάτρας. ΧΩΡΟγραφίες, Τόμος 3, Αρ. 1, σελ. 1-5.

- V. Pagounis, M. Tsakiri, v. Zacharis, V. Andritsanos, M. Tsiardaki. Detection of Geometric Changes for an Historic Theatre by Comparing Surveying Data of Different Chronological Periods. *Journal of Cultural Heritage*. Volume 21, September - October 2016, pp 860 - 868.
- G. Hloupis, V. Pagounis, M. Tsakiri, G. Doxastakis, V. Zacharis. Low-cost warning system for the monitoring of the Corinth Canal. *Applied Geomatics*, Springer Berlin Heidelberg, DOI<https://doi.org/10.1007/s12518-017-0196-9>, pp 1-15
- G.S. Vergos, V.D. Andritsanos, V.N. Grigoriadis, V. Pagounis, I.N. Tziavos. Evaluation of GOCE/GRACE GGMs over Attica and Thessaloniki, Greece, and Wo determination for height system unification. *Proceedings of the IGFS2014 Meeting of the IGFS, International Association of Geodesy Symposia Vol. 145*, Springer Berlin Heidelberg New York. doi: 10.1007/1345_2015_53.
- Vassilios D. Andritsanos, Orthodoxia Arabatzi, Vassilios Pagounis, and Maria Tsakiri (2017). Quality Control of Height Benchmarks in Attica, Greece, Combining GOCE/GRACE Satellite Data, Global Geopotential Models and Detailed Terrain Information.
- V. Pagounis, M. Tsakiri, S. Palaskas, B. Biza and E. Zaloumi (2006). 3D Laser Scanning for Road Safety and Accident Reconstruction. Πρακτικά στο TS 38 - Engineering Surveys for Construction Works I, Shaping the Change XXIII FIG Congress, Munich, Germany, October 8-13, 2006.
- Σ. Μαυρομάτης, Β. Παγούνης, Σ. Παλάσκας, Δ. Μαρούδας. Έλεγχος ορατότητας με εφαρμογή τρισδιάστατης αποτύπωσης του οδικού περιβάλλοντος. Πρακτικά 4ου Πανελληνίου Συνεδρίου Οδικής Ασφάλειας, Αθήνα 5-6 Νοεμβρίου 2009.
- O. Arabatzi, V. Pagounis, M. Tsakiri (2011). Experience in recording cultural heritage using modern geodetic techniques-monument at the Acropolis of Athens. Πρακτικά στο TS06E - Laser Scanning and Photogrammetry, 4992, FIG Working Week 2011 Bridging the Gap between Cultures Marrakech, Morocco, 18-22 May 2011.
- V. Pagounis, G. Hloupis, E. Vassilakis, V. Zacharis, M. Tsakiri (2016). Integrating wireless sensor networks and geodetic techniques for slope stability monitoring in the Corinth Canal. Αποδεκτό για παρουσίαση στο 3rd Joint International Symposium on Deformation Monitoring (JISDM), Vienna, 30th March-1st April 2016
- V. Pagounis, S. Vlizos, M. Tsakiri, C. Commez, N. Demir (2018). The use of geodetic techniques in the documentation of an archaeological excavation site. Submission to FIG Congress 2018 in Instabul, Turkey, 6-11 May.
- E Vouklari, D. Papanikolaou, V. Pagounis, V. Zacharis, M. Tsakiri, O. Arabatzi. Caves as cultural heritage: 3D documentation of DikteonAndron in Crete. *International Symposium on the Conservation of Monuments in the Mediterranean Basin*, pp 547-554, DOI: https://doi.org/10.1007/978-3-319-78093-1_59.

- V. Zacharis, S. Dimitrellou, K. Politis, G. Livanos, V. Pagounis, O. Arabatzi, M. Tsakiri (2019). The use of geodetic techniques in stability monitoring of floating structures.4th Joint International Symposium on Deformation Monitoring (JISDM), 15-17 May 2019, Athens, Greece.
- D. Anastasiou, E. Baxevanidi, V. Andritsanos, M. Gianniou, V. Pagounis, M. Tsakiri (2020). 3D Digital Tools for the Development and Promotion of Religious Heritage Tourism.FIG Working Week 2020 Smart surveyors for land and water management Amsterdam, the Netherlands, 10-14 May 2020.
- D. Anastasiou, A. Iliodromitis, V. Pagounis, M. Tsakiri (2020). 3D Virtual Models for an Early Education Serious Gaming Application.3D Geoinfo Conference 2020,8th to the 22nd September 2020, virtually/online UCL.