

CURRICULUM VITAE

ATHANASIOS ILIODROMITIS

Assistant Professor, University of West Attica

Rural & Surveying Engineer, NTUA

MSc Geoinformatics, NTUA

MBA Techno-Economic Systems, NTUA

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1. **PERSONAL INFORMATION**

SURNAME: ILIODROMITIS

NAME: ATHANASIOS

PLACE OF BIRTH: AMAROUSSIO

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Member of Technical Chamber of Greece

Member of Greek Association of Rural & Surveying Engineers



2. Languages

English (Certificate of Proficiency in English), March 2003

German (B2), September 2009

3. Education

1999-2001:	1st High School of Chaidari. Mark 18.548/20.000
2001:	Entered the School of Rural & Surveying Engineering of the National Technical University in Athens. (1st among 90 colleagues who succeeded to the School in 2001).
2001-2006:	School of Rural & Surveying Engineering of the National Technical University in Athens. Mark: 8.02/10
2006-2008:	Postgraduate studies in "Geoinformatics", NTUA. Mark: 8.33/10
2010:	Four-month stay and cooperation with Universitat der Bundeswehr, Munchen
2013-2015:	Postgraduate studies in "Techno-Economic Systems", NTUA & University of Piraeus. Mark: 8.55/10
2017:	PhD in School of Rural and Surveying Engineer, NTUA
2018-2020:	Post-Doctoral researcher in Department of Topography, of School of rural and Surveying Engineer of NTUA. Field: «Development of methodologies for the deployment and the evaluation of wireless sensor networks using computational geometry algorithms in 3D space» Presentation of the research: December 2020.

4. Honours - Scholarships

2001:	Scholarships from SSC (State Scholarship Foundation) and NTUA for having the highest mark from those who succeeded the School at 2001
2005:	Scholarship from the Greek Technical Chamber for the performance at the NTUA for the Academic year 2002-2003. (8.38 / 10).

5. Educational experience

5.1 Self-supported teaching (under-graduate & post-graduate)

2025 - ...	Assistant Professor, University of West Attica
2023-2024	“Measurement of immovable property”, in post-graduate program of “Land management and Real Estate” of Department of Surveying and Geoinformatics Engineering, UNIWA
2023	Advanced Field Course, of 8 th semester, Department of Surveying and Geoinformatics Engineering, UNIWA
2023	“Topographic Networks and calculations” of 4 th semester, Department of Surveying and Geoinformatics Engineering, UNIWA
2018-2022:	Academic Scholarship of University of West Attica. School of Engineering, Department of Civil. Self-supported teaching of the courses “Geodesy” and “Geodetic Applications”
2017-2018:	“Surveying / Geodetic Applications” 4 th semester, Department of Civil Engineering, Technological Education Institute of Piraeus.

5.2 Participation in laboratory exercises

2018-2025:	Academic Scholarship of University of West Attica. School of Engineering, Department of Surveying and Geoinformatics Engineering. Participation in various geodetic courses.
2011-2012	Metrology, 8 th semester of School of Rural & Surveying Engineers, NTUA

2010-2011	Geodesy II, 3 rd semester & Geodesy III, 4 th semester of School of Rural & Surveying Engineers, NTUA
2008-2009 & 2010-2012 & 2014-2017	Advanced Geodesy Subjects, 6 th semester of School of Rural & Surveying Engineers, NTUA
2008-2012 & 2015-2017	Advanced Field Course II, 6 th semester of School of Rural & Surveying Engineers, NTUA
2008-2012 & 2013-2016:	Geodetic applications, 3 rd semester in Civil Engineering School, NTUA.

5.3 Supervision of diploma thesis

- 5.3.1 Topographic Diagram of the Katholikon of Monastery of Daphni with Modern Geodetic Instruments. Department of Civil Engineering, UNIWA. Student: Vasilopoulou K., **March 2021.**
- 5.3.2 Geometric documentation of the Monastery of Daphni with modern Geodetic methods - Architectural plans. Department of Civil Engineering, UNIWA. Student: Terzi V., **March 2021.**
- 5.3.3 Modeling the historic Adži-paša's bridge using 3D laser scanner data. Department of Surveying and Geoinformatics Engineering, UNIWA. Student: Analyti M.-A., **October 2023.**
- 5.3.4 Geometric documentation of the Holy temple of Saint George Alaimpelis, using geodetic equipment. Department of Surveying and Geoinformatics Engineering, UNIWA. Student: Papakonstantinou A., **October 2023.**
- 5.3.5 GEOMETRIC DOCUMENTATION OF THE HOLY MONASTERY OF DAPHNI USING A 3D LASER SCANNER. Department of Surveying and Geoinformatics Engineering, UNIWA. Student: Patouras V., **October 2023.**

6. Scientific activity

6.1 Scientific work

- 6.1.1 **Diploma thesis:** *"The total geometric documentation of the ancient temple of Hera on Samos using modern geodetic instruments"*, March 2006, Mark 10 (max 10).
- 6.1.2 **Post-Graduate thesis:** *"Analysis of the distance measurement using reflectorless total stations and research of the determination of points' coordinates"*, April 2008. Mark 10

- 6.1.3 **Post-Graduate thesis:** *“The economic development of the area around the commercial port of Piraeus, in spatial and urban level, locally and regionally, on the occasion of the investment of COSCO”*, MBA Techno-Economic Systems, NTUA – University of Piraeus, May 2018 (Mark: 10.0)
- 6.1.4 **PhD Thesis:** *“Development of methodologies for the deployment and the evaluation of wireless sensor networks using computational geometry algorithms”*, NTUA, May 2017
- 6.1.5 **Post Doctoral Research:** «Development of methodology for the deployment of wireless sensor networks in three-dimensional space», NTUA, March 2021

6.2 Publication in conferences

- 6.2.1 **Iliodromitis A., Nikolitsas K.** *“Determining the deformations of the rails of a gantry crane”*
18th International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Fields
Sofia, Bulgaria, November **2008**.
- 6.2.2 **Iliodromitis A., Lambrou E.**, *“ Determination of the deformation - resistance of structures by the controlled loading method, in real time”*
3rd National Symposium of Rural and Surveying engineers Athens
December **2010**
- 6.2.3 **Iliodromitis A.**, *“ From dioptra and papyrus to the robotic technology and the internet ”*
3rd National Symposium of Rural and Surveying engineers Athens
December **2010**
- 6.2.4 **Lamprou M., Iliodromitis A.**, *“How to insert measurement in the assessment. The use of geo referenced measurement in the Strategic Environmental Assessment”*.
The Empowerment of Local Authorities: Spatial Information and Spatial Planning Tools (FIG Commission 3 Workshop)
Paris, Οκτώβριος **2011**.
- 6.2.5 **Iliodromitis A., Pantazis G., Vescoukis V.**, *“2D Wireless Sensor Network Deployment Based on Centroidal Voronoi Tessellation”*
1st International Conference on Applied Mathematics and Computer Science (ICAMCS)
Rome, **2017**
Δημοσίευση στο περιοδικό The American Institute of Physics (AIP) Conference Proceedings, Vol. 1836, Jun 5, 2017, <http://doi.org/10.1063/1.4981949>
Cited by: 7

- 6.2.6 **Iliodromitis A.**, Pantazis G., Vescoukis V., Lamrou E., ***"A methodology for WSN deployment in 2D large-scale constraining environments, using computational geometry algorithms"***
4th Joint International Symposium on Deformation Monitoring (JISDM)
Athens, **2019**
Cited by: 2
- 6.2.7 Anastasiou D., Avgeri T., **Iliodromitis A.**, Pagounis V., Tsakiri M., ***"3D Virtual Models for an Early Education Serious Gaming Application"***
3D GeoInfo Conference
London, September **2020**
Δημοσίευση στο ISPRS International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLIV-4/W1-2020, 2020, pp.3-9,
<https://isprs-archives.copernicus.org/articles/XLIV-4-W1-2020/3/2020/>
- 6.2.8 Pagouni Ch., Nikolic N., **Iliodromitis A.**, Pagounis V., Kosanovic S., Tsakiri M., ***"Geomatic data for historic building. The case study of the catholic church of St. Luke in Athens, Greece"***
International conference on Contemporary theory and practice in construction XV
Banja Luka, June **2022**
Πρακτικά συνεδρίου: <https://doisrpska.nub.rs/index.php/STPG/issue/view/802/36>
- 6.2.9 Pantazis G., Zafiris V., Kanellopoulos N., Ioannidou S., Garoufos G., **Iliodromitis A.**, ***"The contribution of modern geodetic methods in the creation of geometric diagrams/plans for the management of historic centers. The Old & New Fortress of Corfu"***.
Changing Cities V: Spatial, design, landscape, heritage and socio-economic dimensions
Corfu, June **2022**
- 6.2.10 **Iliodromitis A.**, Pantazis G., Konstantinidou E., ***"Geometric Documentation of the Leprosarium of Chios"***
3rd International Conference TMM-CH (Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage)
Athens, March **2023**
Πρακτικά συνεδρίου: https://link.springer.com/chapter/10.1007/978-3-031-42300-0_8
- 6.2.11 Pagouni Ch., **Iliodromitis A.**, Tsilimantou E., Anastasiou D., Pagounis V., ***"Different geodetic approaches for the creation of a HBIM"***
3rd International Conference TMM-CH (Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage)
Athens, March **2023**

Πρακτικά συνεδρίου: https://link.springer.com/chapter/10.1007/978-3-031-42300-0_6

- 6.2.12 Gianniou M., Iliopoulou O., Mendonidis E., Iliodromitis A., "**A Comparative Performance Assessment of Galileo and GPS Satellite Clocks**"

EUREF 2023 Symposium
Gothenburg, May **2023**

6.3 Publications in Journals

- 6.3.1 Iliodromitis A., Pantazis G., Lambrou E., "**Orientation and dating of the Heraion of Samos, using the astrogeodetic method**"

Journal of HARSE, vol. 179, pp. 40-45
August - September **2006**

- 6.3.2 Pantazis G., Lambrou E., Nikolitsas K., Papathanassiou M., Iliodromitis A., "**The orientation of Delos' monuments**"

Mediterranean Archaeology and Archaeometry, Vol. 9, Issue 1, σελ.55-68 (indexed and abstracted in Arts and Humanities Citation Index), **2009**.
Cited by: 7

- 6.3.3 Iliodromitis A., Pantazis G., Vescoukis V., "**A reliable Evaluation Method for 2D Wireless Sensor Network Deployment**"

International Journal of Scientific & Engineering Research, Volume 8, Issue 2, σελ. 1243-1248
February **2017**
https://www.ijser.org/research-paper-publishing-february-2017_page5.aspx

- 6.3.4 Iliodromitis A., Lambrou E., "**The Influence of Deployment Parameters on 2D Wireless Sensor Network by Using a Centroidal Voronoi Tessellation Based Algorithm**"

International Journal of Scientific & Engineering Research, Volume 8, Issue 1 , σελ. 82-88
January **2018**.
<https://www.ijser.org/researchpaper/The-Influence-of-Deployment-Parameters-on-2D-Wireless-Sensor-Network-by-Using-a-Centroidal-Voronoi-Tessellation-Based-Algorithm.pdf>

Cited by: 1

- 6.3.5 Anastasiou D., Iliodromitis A., Kosanovic S., Nikolic N., Pagounis V., Tsakiri M., "**Harnessing hBIM to document traditional stone bridges with the creation of smart object libraries**"

International Journal of Cultural Heritage (υπό δημοσίευση)

6.4 Publications to honorific books

- 6.4.1 Iliodromitis A., *"A Centroidal Voronoi Tessellation Based Methodology for Wireless Sensor Network Deployment in Buffer-Zone Areas"*

Honorific book for E. Lambrou, NTUA, Ziti Publications, ISBN 978-618-82392-3-7, **2020**.

- 6.4.2 Andritsanos V., Gianniou M., Iliodromitis A., Pagounis V., Theocharidis I., *"Covariance function studies towards a local gravimetric geoid solution in Attica"*

Honorific book for I. Tziavos, **2023**

6.5 Research Projects

- 6.5.1 *" Investigation of the orientation of the ancient monuments of Delos Island "*, **2007**

- 6.5.2 *" Upgrading the Greek National Garden", 2009*

- 6.5.3 *" Investigation of the orientation of Greek Monuments ", 2009*

- 6.5.4 *" Information system for operational planning and management of forest fires in Messinia ", 2010*

- 6.5.5 *" Upgrading Infrastructure for earthquake protection and strengthening service delivery through actions of excellence ", 2015*

- 6.5.6 *" Modern Geodetic Methods and Automation for the identification and recording of the Holy Temples and Monuments of the Orthodox Church of the Holy Metropolis of Syros ", 2019*

- 6.5.7 *" Modernization of the Hellenic Gravity Network ", 2020*

- 6.5.8 *"Preparation of Management Plans through the example of the Old and New Fortresses of Corfu ", 2021*

- 6.5.9 *" High resolution digital mapping of the nine columns of the southeast corner of the Temple of Olympian Zeus ", 2022*

6.6 Participation in Conferences - Workshops

- 6.6.1 1st National Conference of Rural & Surveying Engineers, Athens, May **2004**

- 6.6.2 Meeting "New Technologies for collection of spatial data", Athens, October 2005
- 6.6.3 21st European Conference of ArcGIS, Athens, November 2006
- 6.6.4 Meeting "Infrastructure of spatial data at national and European level, according to the INSPIRE directive". Athens, November 2006
- 6.6.5 2nd National Conference of Rural & Surveying Engineers, Athens, December 2006
- 6.6.6 21o CIPA SYMPOSIUM, "Anticipating the feature of the cultural past". Athens, October 2007
- 6.6.7 13th FIG Symposium on Deformation Measurement and Analysis - 4th IAG Symposium on Geodesy for Geotechnical and Structural Engineering, Lisbon, Portugal, May 2008
- 6.6.8 XVIII International Symposium "Modern Technologies, Education and Professional practice in Geodesy and related fields", Sofia, Bulgaria, November 2008
- 6.6.9 3rd National Conference of Rural & Surveying Engineers, Athens, 2010
- 6.6.10 4th National Conference of Metrology. Athens, February 2012
- 6.6.11 4th National Conference of Rural & Surveying Engineers, Thessaloniki 2014
- 6.6.12 International Conference on Applied Mathematics and Computer Science (ICAMCS), Rome, 2017
- 6.6.13 5th National Conference of Rural & Surveying Engineers, Athens 2017
- 6.6.14 4th Joint International Symposium on Deformation Monitoring (JISDM), Athens, 2019
- 6.6.15 3rd International Conference TMM-CH (Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage), Athens, March 2023

7. Software knowledge

Process of GNSS and Total Station data: Trimble Business Center, Topcon Tools, Leica Geo-office, Infinity

Drawing software: AutoCAD MAP 3D

GIS Software: ArcGIS, QGIS

Laser Scanner software: Cloud compare, Cyclone 360, CloudWorx, TruView

Photogrammetry: Photomod, Agisoft Photoscan

Project management: MS Project

