

# **CURRICULUM VITAE**

**Dr. ATHANASIOS ILIODROMITIS**  
**Rural & Surveying Engineer, NTUA**  
**MSc Geoinformatics, NTUA**  
**MBA Techno-Economic Systems, NTUA**

ATHENS OCTOBER 2023

## Περιεχόμενα

<b>Περιεχόμενα</b> .....	<b>2</b>
<b>1. PERSONAL INFORMATION</b> .....	<b>3</b>
<b>2. Languages</b> .....	<b>4</b>
<b>3. Software knowledge</b> .....	<b>4</b>
<b>4. Honours - Scholarships</b> .....	<b>4</b>
<b>5. Education</b> .....	<b>5</b>
<b>6. Scientific activity</b> .....	<b>6</b>
6.1 Scientific work.....	6
6.2 Publication in conferences.....	6
6.3 Publications in Journals.....	8
6.4 Publications to honorific books.....	9
6.5 Research Projects.....	9
6.6 Συμμετοχή σε Συνέδρια – Σεμινάρια - Ημερίδες.....	10
<b>7. Educational experience</b> .....	<b>11</b>
7.1 Self-supported teaching (under-graduate & post-graduate).....	11
7.2 Participation in laboratory exercises.....	11
7.3 Supervision of diploma thesis.....	12

## 1. PERSONAL INFORMATION

**SURNAME:** ILIODROMITIS

**NAME:** ATHANASIOS

**FATHER'S NAME:** EFSTATHIOS

**PLACE OF BIRTH:** AMAROUSSIO

**DATE OF BIRTH:** 03<sup>rd</sup> APRIL1983

**e-mail:** [a.iliodromitis@uniwa.gr](mailto:a.iliodromitis@uniwa.gr)

**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. 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

Programming: MatLAB

## 4. Honours - Scholarships

2001:	Scholarships from SSC (State Scholarship Foundation) and NTUA for having the highest mark from those you 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. 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:	Rural & Surveying Engineering School 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.

## 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"**  
1<sup>st</sup> 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](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](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](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 Συμμετοχή σε Συνέδρια – Σεμινάρια - Ημερίδες**

- 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. Educational experience

### 7.1 Self-supported teaching (under-graduate & post-graduate)

2017-2018:	“Surveying / Geodetic Applications” 4th semester, Department of Civil Engineering, Technological Education Institute of Piraeus.
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”
2023	“Topographic Networks and calculations” of 4 <sup>th</sup> semester, Department of Surveying and Geoinformatics Engineering, UNIWA
2023	Advanced Field Course, of 8 <sup>th</sup> semester, Department of Surveying and Geoinformatics Engineering, UNIWA
2023-2024	“Measurement of immovable property”, in post-graduate program of “Land management and Real Estate” of Department of Surveying and Geoinformatics Engineering, UNIWA

### 7.2 Participation in laboratory exercises

2008-2012 & 2013-2016:	Geodetic applications, 3 <sup>rd</sup> semester in Civil Engineering School, NTUA.
2008-2012 & 2015-2017	Advanced Field Course II, 6 <sup>th</sup> semester of School of Rural & Surveying Engineers, NTUA
2008-2009 & 2010-2012 & 2014-2017	Advanced Geodesy Subjects, 6 <sup>th</sup> semester of School of Rural & Surveying Engineers, NTUA
2010-2011	Geodesy III, 4 <sup>th</sup> semester of School of Rural & Surveying Engineers, NTUA
2010-2011	Geodesy II, 3 <sup>rd</sup> semester of School of Rural & Surveying Engineers, NTUA
2011-2012	Metrology, 8 <sup>th</sup> semester of School of Rural & Surveying Engineers, NTUA
2018-Σήμερα:	Academic Scholarship of University of West Attica. School of Engineering, Department of Surveying and Geoinformatics Engineering. Participation in various geodetic courses.

### **7.3 Supervision of diploma thesis**

- 7.3.1 Topographic Diagram of the Katholikon of Monastery of Daphni with Modern Geodetic Instruments. Department of Civil Engineering, UNIWA. Student: Vasilopoulou K., **March 2021.**
- 7.3.2 Geometric documentation of the Monastery of Daphni with modern Geodetic methods - Architectural plans. Department of Civil Engineering, UNIWA. Student: Terzi V., **March 2021.**
- 7.3.3 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.**
- 7.3.4 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.**
- 7.3.5 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.**