**CURRICULUM VITAE**

**PISPIDIKIS IOANNIS**

**Officer in Hellenic Military Geographical Service**

**Surveying Engineer**

**M.Sc, Ph.D Candidate**

October 2018

## CONTENTS

## PERSONAL INFORMATION

| | |
|---|---|
| *Surname:* | Pispidikis |
| *Name:* | Ioannis |
| *Father's name:* | Stauros |
| *Mother's name:* | Dimitra |
| *Date of birth* | 18 February 1984 |
| *Birth place:* | Athens |
| *Family status:* | Married |
| *Address* | Mithridatou 36-38, 11632, Athens |
| *Phone* | +302111845624 (Home) |
| | +302108206686 (Work) |
| | +306951762683 (mobile) |
| *e-mail* | pispidikisj@yahoo.gr |
| | jpispidikis@gmail.com |

## EDUCATION AND STUDIES

*2016-Today*    **:**    Doctor of Philosophy (Ph.D), Candidate, National Technical University of Athens. Geomatics, Title of Doctoral Thesis: «**Investigation automated retrieval of semantic 3D city data**»

*2014-2016*    **:**    MSc, Master's Degree, National Technical University of Athens. Geomatics, Grade: **9.33/10 (Excellent)**

| *2010-2014* | : | Batchelor's Degree, National Technical University of Athens, School of Rural and Surveying Engineering.  Grade: **9.17/10 (Excellent)** |
| *10/2008-05/2010* | : | Batchelor's Degree, Topography School in Hellenic Military Geographical Service (HMGS), Surveying Engineering. |
| *2001-2005* | : | Batchelor's Degree, Hellenic Military Academy, Military Operational Art and Science/Studies |
| *1998-2001* | : | General High School. Grade: 18/20 |

## SCIENTIFIC TRAINING

| *01/10 – 02/10/18* | : | 13th 3D Geoinfo Conference, Netherland: Delft |
| *20/10 – 21/10/16* | : | 11th 3D Geoinfo Conference, Greece: Athens |
| *18/10 – 20/10/16* | : | 5th International Workshop on 3D Cadastres, Greece: Athens |
| *25/05 – 27/05/15* | : | Training Program «The Common Assessment Framework as a Tool for Total Quality Management. Training Institute |
| *02/03 – 12/06/15* | : | Education for aerial photography. Army Aviation School |
| *11 – 12/12/14* | : | 8th National Conference Hellas GIs. National Technical University of Athens. |
| *9 – 10/10/14* | : | Seminar: «Introduction to Geoprocessing Scripts Using Python». Marathon Data Systems |
| *25 – 26/9/14* | : | Seminar: «ArcGIS for Server-Sharing GIS Content on the Web» version 10.x. Marathon Data Systems |
| *22, 23 & 24/9/14* | : | Seminar: «Introduction to Geographic Information System (GIS) » ArcGIS Extensions (3D Analyst-Spatial Analyst) version 10.x. Marathon Data Systems |

| | | |
|---|---|---|
| *15, 16 & 17/9/14* | **:** | Seminar: «Introduction to Geographic Information System (GIS)» ArcGIS II version 10.x. Marathon Data Systems |
| *8, 9 & 10/9/14* | **:** | Seminar: «Introduction to Geographic Information System (GIS)»ArcGIS I version 10.x. Marathon Data Systems |

## PROFESSIONAL EXPERIENCE

| | | |
|---|---|---|
| *2014-Today* | **:** | Geodatabases Subdivision. Hellenic Military Geographical Service (HMGS). Athens, Greece. |

- Supervision of day to day operations
- Military geospatial application development (Intranet WebGIS application, Android app)
- Data collection, manipulation and validation
- Installation and maintenance of all geodatabases for development purposes

| | | |
|---|---|---|
| *2008-Today* | **:** | Officer of the Greek Army in the Hellenic Military Geographical Service and Hellenic Military Topographic Service. |
| *2005-Today* | **:** | Officer in Greek Army |
| *Academic Years: 2016/2017 & 2017/2018* | **:** | Member of the teaching team of the course: ''Cadastral and Land Policy Systems'', 8th semester, School of Rural and Surveying Engineering, National Technical University of Athens |
| *20-21/10/2016* | **:** | Member of the Organizing Committee: ''11th 3D Geoinfo Conference'', Greece: Athens |
| *18-20/10/2016* | **:** | Member of the Organizing Committee: ''5th International Workshop on 3D Cadastres'', Greece: Athens |

*2009-2015*        **:**        Head of department in the execution of several topographic surveys in Greece:

- topographic surveys
- cadastral surveys
- expropriations
- delimitation
- property surveying

*2005-2008*        **:**        Officer of the Greek Army, Infantry Specialty, as Trainer and Staff Commander

## PROJECTS

*9/2018-Today*        **HMGS- 3D ERATOSTHENIS PROJECT**
Development of intranet 2D/3D WebGIS application with the aim of Geographical Support of theGreek Army. Participate as developer and technical manager of the application.
- Front-end web development (HTML, CSS, JavaScript, JQuery, Angular)
- Development Geospatial and Geoprocessing tools (ArcGIS, model builder, python)
- Back-end development (PHP, postgreSQL, ArcSDE, ArcGIS Server, Web Services)

*7/2016-8/2017*        **HMGS-GEOINDEX PROJECT**
Development of new Geo-Index (WebGIS application) of Hellenic Military Geographical Service (HMGS) providing tools for searching and ordering geographical data produced and managed by HMGS. Participate as developer and technical manager of the application.
- Front-end development (JavaScipt, HTML, CSS, Web AppBuilder for ArcGIS)
- Back-end development (ArcGIS online, Web Services)

*9/2016-9/2017*        **NTUA- CAMPUS PROJECT**
Development of 3D WebGIS application for the portrayal of NTUA campus.
- 3D modeling
- Semantic enrichment of the models (CityGML implementation)

- Back-end development (Database schema definition, Scene services, ArcGIS pro )
- Front-end development (JavaScript, HTML, CSS, Web AppBuilder for ArcGIS)

*10/2014-Today:*  **HMGS-ERATOSTHENIS PROJECT**
Development of intranet WebGIS application with the aim of Geographical Support of the Greek Army. Participate as developer of the application.

- Front-end web development (HTML, CSS, JavaScript, JQuery, Dojo)
- Development Geospatial and Geoprocessing tools (ArcGIS, model builder, python)
- Back-end development (PHP, 7ostgreSQL, ArcSDE, ArcGIS Server, Web Services)

*2/2016-2/2017*  **HMGS- Vehicle Monitoring System in real time**
This system consists of two applications. The first is Android based application that records and sends the desirable information to the Command and Control. The second is 2D/3D WebGIS application for monitoring the movements of the vehicles in real time.
Participate as developer and technical manager of this system.

- Front-end development (HTML, CSS, JavaScript, JQuery, Ol-Cesium, Android)
- Back-end development (PHP, SQLite)

## HONORS & AWARDS

*10/2017-10/2020*  **:**  Scholarship from ONASSIS FOUNDATION for Ph.D research.

*9/2017*  **:**  Award from Technical Chamber of Greece. Second highest grade for the School of Rural and Surveying Engineering among 2014 graduate
.

*2015/2016*  **:**  Scholarship from Zwh Soutsou legacy for Ph.D research.

*9/2015*  **:**  Thomaidis award. Best Undergraduate student in 2013-2014 among all students of the school of Rural and Surveying Engineering

| | | |
|---|---|---|
| *7/2015* | **:** | Award of Academic Excellence. Second highest grade for the School of Rural and Surveying Engineering among 2014 graduate |
| *2/2015* | **:** | Award of Academic Excellent. LIMMAT STIFTUNG-Memorandum of Agreement 29502/14 |
| *2000* | **:** | 5th Position in Nationwide Contest «LYSIAS» |

## PUBLICATIONS

**A.** Publications in International Scientific Journals

**B.** Publications in Proceedings of National and International Conferences with reviews

**C.** Presentations at Conferences

**D.** Thesis-Dissertations

**E.** Technical reports

**F.** Impact Factor of Publications in International Scientific Journals with reviews

**G.** Citation index of the publication project

### A. Publications in International Scientific Journals

*A1.*    **I. Pispidikis** & E. Dimopoulou, ''Web Development of Spatial Content Management System through the Use of Free and Open-Source Technologies. Case Study in Rural Areas'', Journal of Geographic Information System (JGIS), vol.7, no.5, p.p. 527-540, October 2015.

## B. Publications in Proceedings of National and International Conferences with reviews

**B1.** G. Floros, E. Tsiliakou, D. Kitsakis, **I. Pispidikis** & E. Dimopoulou, ''Investigating Semantic Functionality of 3D Geometry For Land Administration'', 3D Geoinfo 2015, 28-30 October 2015, Malaysia: Kuala Lumpur.

*Floros, G., Tsiliakou, E., Kitsakis, D., Pispidikis, I., & Dimopoulou, E. (2017). Investigating Semantic Functionality of 3D Geometry for Land Administration. In Advances in 3D Geoinformation (pp. 247-264). Springer, Cham.*

**B2.** A. Athanasiou, **I. Pispidikis** & E. Dimopoulou, ''3D Marine Administration System based on LADM'', 3D Geoinfo 2015, 28-30 October 2015, Malaysia: Kuala Lumpur.

*Athanasiou, A., Pispidikis, I., & Dimopoulou, E. (2017). 3D Marine Administration System Based on LADM. In Advances in 3D Geoinformation (pp. 385-407). Springer, Cham.*

**B3.** G Floros, D Solou, **I Pispidikis**, E Dimopoulou, ''A roadmap for generating semantically enriched CityGML model via two different methodologies'', 3D Geoinfo 2016, 20-21 October 2016, Greece: Athens.

*Floros, G., Solou, D., Pispidikis, I., & Dimopoulou, E. (2016). A ROADMAP FOR GENERATING SEMANTICALLY ENRICHED BUILDING MODELS ACCORDING TO CITYGML MODEL VIA TWO DIFFERENT METHODOLOGIES. International Archives of the Photogrammetry, Remote Sensing & Spatial Information Sciences, 42.*

**B4.** **I Pispidikis**, E Dimopoulou, ''Development of a 3D WebGIS system for retrieving and visualizing CityGML data based on their geometric and semantic characteristics by using free and open source technology'', 3D Geoinfo 2016, 20-21 October 2016, Greece: Athens.

*Pispidikis, I., & Dimopoulou, E. (2016). DEVELOPMENT OF A 3D WEBGIS SYSTEM FOR RETRIEVING AND VISUALIZING CITYGML DATA BASED ON THEIR GEOMETRIC AND SEMANTIC CHARACTERISTICS BY USING FREE AND OPEN SOURCE TECHNOLOGY. ISPRS Annals of Photogrammetry, Remote Sensing & Spatial Information Sciences, 4(2).*

**B7.** **I. Pispidikis**, E. Tsiliakou, D. Kitsakis, A. Athanasiou, E. Kalogianni, T. Lampropoulos, E. Dimpoulou, 'Browsing in Web Interactive 3D Environment-Application in the School of Rural and Surveying Engineering of NTUA '', 5th International Conference of Rural and Surveying Engineering, 14-15 October 2017, Greece: Athens.

*B6.*     G Floros, **I Pispidikis**, E Dimopoulou, «Investigating integration capabilities between IFC and CityGML LoD4 for 3D City Modeling», 3D Geoinfo 2017, 26-27 October 2017, Australia: Melbourne.

*Floros, G., Pispidikis, I., & Dimopoulou, E. (2017). Investigating Integration Capabilities between IFC and Citygml LOD3 for 3d City Modelling. The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences, 42, 1.*

*B7.*     **I. Pispidikis** and E. Dimopoulou, «CityGML RESTFul Web Service: Automatic retrieval of CityGML data based on their semantics. Principles, guidelines and BLDG conceptual design», 3D Geoinfo 2018, 01-02 October 2018, Netherland: Delft.

*Pispidikis, I., & Dimopoulou, E. (2018). CITYGML RESTFUL WEB SERVICE: AUTOMATIC RETRIEVAL OF CITYGML DATA BASED ON THEIR SEMANTICS. PRINCIPLES, GUIDELINES AND BLDG CONCEPTUAL DESIGN. ISPRS Annals of Photogrammetry, Remote Sensing & Spatial Information Sciences, 4*

*B8.*     **I. Pispidikis,** E. Tsiliakou, D. Kitsakis, K. Athanasiou, E. Kalogianni, T. Labropoulos, and E. Dimopoulou, «Combining methodological tool for the optimum 3D modeling of NTUA Campus », 3D Geoinfo 2018, 01-02 October 2018, Netherland: Delft.

*Pispidikis, I., Tsiliakou, E., Kitsakis, D., Athanasiou, K., Kalogianni, E., Labropoulos, T., & Dimopoulou, E. (2018). COMBINING METHODOLOGICAL TOOLS FOR THE OPTIMUM 3D MODELLING OF NTUA CAMPUS. ISPRS Annals of Photogrammetry, Remote Sensing & Spatial Information Sciences, 4.*

## C. Presentations at Conferences

*C1.*     **I. Pispidikis**, ''Web Development of Spatial Content  Management System through the Use of Free and Open-Source Technologies. Case Study in Rural Areas'', 8th International Conference Hellas GIs, 11-12 December 2014, National Technical University of Athens, Greece: Athens.

*C2.*     T. Koukoletsos, **I. Pispidikis** & D. Loisios, '' Design, development and integration of spatial analysis tools in WebGIS enviroment '', 24th National ArcGIS User Conference, 19-20 May 2016, Greece: Athens.

*C3.*    T. Koukoletsos, **I. Pispidikis**, ''Latest technology WEBGIS Applications of Hellenic Military Geographical Service'', 25th National ArcGIS User Conference, 11-12 May 2017, Greece: Athens.

*C4.*    T. Koukoletsos, **I. Pispidikis**, ''Evaluation and Proposals for Parameterization of Geospatial Web Services '', 25th National ArcGIS User Conference, 11-12 May 2017, Greece: Athens.

*C5.*    **I. Pispidikis**, E. Tsiliakou, D. Kitsakis, A. Athanasiou, E. Kalogianni, T. Lampropoulos, E. Dimopoulou, ''Development of 3D WEBGIS for the Campus in Zografou '', 25th National ArcGIS User Conference, 11-12 May 2017, Greece: Athens.

*C6.*    **I. Pispidikis**, E. Tsoumenis, T Koukoletsos, "New GeoIndex of Hellenic Military Geographical Service", 26th National ArcGIS User Conference, 10-11 May 2018, Greece: Athens

*C7.*    T Koukoletsos , **I. Pispidikis**, D. Leader, "Digital Interactive Map of Hellenic Military Geographical Service", 26th National ArcGIS User Conference, 10-11 May 2018, Greece: Athens

*C8.*    **I. Pispidikis**, "New GeoIndex of Hellenic Military Geographical Service", 11th International Conference of Hellenic Geographical Society, 11-15 Apr 2018, Greece: Athens

*C9.*    **I. Pispidikis,** E. Tsiliakou, D. Kitsakis, K. Athanasiou, E. Kalogianni, T. Labropoulos, and E. Dimopoulou, "3D Interactive Information Map of NTUA", 26th National ArcGIS User Conference, 10-11 May 2018, Greece: Athens

## D. Thesis-Dissertations

*D1.*    **I. Pispidikis,** «Web Development of Spatial Content Management System through the Use of Free and Open-Source Technologies. Case Study in Rural Areas», **Bachelor Thesis, School of Rural and Surveying Engineering, National Technical University of Athens, 2014**

*D2.*    **I. Pispidikis,** «Development of a 3D WebGIS system  for retrieving and visualizing CityGML data based on their geometric and semantic characteristics by using free and open source technology», **Master Thesis, Geomatics, National Technical University of Athens, 2016**

## OTHER KNOWLEDGE

*Languages*            **:**     English: Professional Working Proficiency
                                         Greek: Native language

*Programming*       **:**     • Very Good Programming Knowledge: (Visual Basic, C++,
*Knowledge*                       C#, C)

                                         • High level Front-end Web Development Skills (JavaScript,
                                            HTML, CSS etc.)

                                         • High Level Back-end Web Development Skills (Web
                                            Services, REST api, PHP, Java, python, mysql, sqllite
                                            PostgreSQL/PostGIS, ArcSDE, ArcGIS Server, GeoServer,
                                            MapServer etc)

                                         • High Level knowledge of GIS and CAD application such as
                                            AutoCAD, ArcGIS  and QGIS

                                         • High Level Knowledge and experience of developing
                                            WebGIS applications