

Siachalou Sophia holds a Diploma in Rural and Surveying Engineering, Aristotle University of Thessaloniki (AUTH) since 2002. In 2003 she received a Master's Degree in Geoinformatics in Aristotle University of Thessaloniki, entitled " Management of photogrammetric production and remote sensing with GIS". She is a member of the Laboratory of Photogrammetry and Remote Sensing (AUTH-P & RS-LAB) and in 2016 was nominated Doctor of Rural and Surveying Engineering AUTH. Since 2005 she is a regular employee of the Greek Payment Authority of Common Agricultural Policy Aid Schemes of the Ministry of Rural Development and Food (OPEKEPE) with main duties the control of the legibility of the payment of Community aid under the Common Agricultural Policy (CAP) EU by field visits and Remote Sensing methods.

## CV

### Surname/Name

- Siachalou Sofia

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### Education

- 2002: Participation in the Erasmus exchange program in "Universidad Politecnica de Valencia", Spain for 4 months.
- 1997-2002: Surveying Engineer, Dipl-Eng. Aristotle University of Thessaloniki, Greece (grade 7,94).
- 2002-2003: MSc in "Geo-Informatics- Management of photogrammetric and remote sensing production in GIS environment.". Faculty of Rural and Surveying Engineering. Aristotle University of Thessaloniki (grade 8,98).
- 2016: PhD Faculty of Rural and Surveying Engineering. Aristotle University of Thessaloniki, Greece

### Scholarships and Awards

- 1997-1998: "I.K.Y" scholarship for the 2<sup>nd</sup> semester of studies in the Faculty of Rural and Surveying Engineering, AUTH.
- 2002-2003: Awarded Distinction (1<sup>st</sup>) by the Faculty of Rural and Surveying Engineering for the MSc studies in "Geo-Informatics"
- 2004: Best Poster Paper Award for paper presented at the 20<sup>th</sup> international congress of ISPRS
- 2005: PhD scholarship awarded by Research Committee, AUTH.

### Research Projects

- 2004: "Consulting for the development of Optical Wideband MANs of Region of Central Macedonia- Supervision of the project implementation". Funding: Infosociety - Ministry of Economy and Finance. (Duration: 2 months, 01/11/2004-31/12/2004).
- 2004: "Localization of the new water pipeline of the municipality of Chalastra". Funding: Municipal Enterprise for Water and Sewage of

Chalastra. (Duration: 2 months, 01/12/2004-31/01/2005).

- 2012: "Vegetation Mapping and Biomass Estimation with Modern Remote Sensing Methods in order to fulfil the Country's Obligations Under the United Nations Framework Convention on Climate Change (UNFCCC) and the Kyoto Protocol". Funding: European Social Fund and National Resources (Duration: 31 months, 01/04/2012-01/09/2015)
- 2015: "Pilot studies on the provision of harmonized land use/land cover statistics - Synergies between LUCAS and the national systems" (Duration: 12 months)
- 2004: Participation in the project: 'Providing GIS Services in Olive and the Vineyard registration of the prefectures of Lesbos, Chios, Samos, Cyclades, Dodecanese' (Duration: 2 months, 27/01/2004-31/03/2004).
- 2005-Today: Regular employee of the Greek Payment Authority of Common Agricultural Policy Aid Schemes of the Ministry of Rural Development and Food (OPEKEPE), with main duties the control of the legibility of the payment of Community aid under the Common Agricultural Policy (CAP) EU by field visits and Remote Sensing methods.

#### Work experience

#### Δημοσιεύσεις

1. S. Siachalou, "Urban Orthoimage Analysis Generated from Ikonos Data", 20th Congress of ISPRS, Istanbul, July 2004.
2. S. Siachalou , M. Tsakiri-Strati, O. Georgoula, "Remote Sensing, Enviroment and well-being", 8o National Congress of Cartography, Thessaloniki, Nov. 2004.
3. S. Siachalou, N. Karanikolas, M. Tsakiri-Strati, "Study of the Development of urban and suburban structures and networks using Remotely Sensed Images", Geographies of Mitropolis- Aspects of the Phenomenon in Greek territory, Thessaloniki, Oct. 2005.
4. S. Siachalou, G. Doxani, M. Tsakiri- Strati, "Classification Enhancement", 1st Workshop of EARSel on "Urban Remote Sensing – Challenges & Solutions", Berlin, March 2006.
5. S. Siachalou, G. Doxani, M. Tsakiri- Strati, "Object-Oriented Analysis of High Resolution Imagery for Urban Data Management", 25th Urban Data Management Symposium, Aalborg, May 2006
6. G. Doxani, S. Siachalou , M. Tsakiri-Strati, "Detecting urban land cover changes based on high resolution multitemporal images: a case study for Thessaloniki Metropolitan area", 7<sup>th</sup> Geomatic Week Conference, Barcelona, February 2007.
7. Doxani, G., Siachalou, S., Tsakiri- Strati, M., 2008. "An object-oriented approach to urban land cover change detection", 21st Congress of ISPRS, Beijing, July 2008.
8. Siachalou, S., Doxani, G., Tsakiri- Strati, M., 2008. "Quality control of digital cartographic products from remote sensing process ", 10th National Conference of Cartography, XEEE, Ioannina, November 2008.
9. Stournara P., Tsakiri-Strati M., Doxani G., and Siachalou S. 2008. "Atmospheric correction of Hyperion Hyperspectral images", 18th Hellenic meeting of GIS ArcView-ArcInfo-ArcGIS SERVER, Thessaloniki, Greece, 5-7 November 2008.
10. Doxani, G., Siachalou, S., Tsakiri- Strati, M., 2009. "An integrated approach to automated building extraction from very high resolution

imagery in urban areas”, 29th Annual EARSEL Symposium, Chania, June 2009.

11. Siachalou S., Doxani G., Tsakiri-Strati, M., 2009. “Integrating remote sensing processing and GIS to fire risk zone mapping: a case study for the Seih-Sou forest of Thessaloniki”, ICC 2009, International Cartography Conference, Santiago, Chile, November 2009.
12. S. Siachalou, M. Tsakiri-Strati, S. E. Tsiouris, G. Doxani, 2009. “Using satellite imagery to study the streams of a rapidly developing suburban area of western Thessaloniki”, Special publication in honour of Professor Ch. Tsimopoulos, AUTH - Faculty of Rural and Surveying Engineering, Ziti publications, Thessaloniki, pp.481-490.
13. Tsakiri-Strati, M., Papadopoulou, M., Doxani, G., Siachalou, S., 2010. Comparison of the spectral and spatial information content of pansharpened TM and XS images. Special publication in honour of Professor D. Arabelos, AUTH - Faculty of Rural and Surveying Engineering, Ziti publications, Thessaloniki, pp. 390-401.
14. Siachalou S., Doxani G., Tsakiri-Strati, M., 2014. “Time-series analysis of high temporal remote sensing data to model wetland dynamics: a hidden markov model approach”, SENTINEL-2 for Science Workshop, Water: Inland, Coastal and Wetlands, Frascati, Italy, May 2014
15. Siachalou S., Tsakiri-Strati M., Papadopoulou M., Lafazani P., 2014. “A multi-temporal classification approach to monitor a countertrend of urbanization in an era of economic crisis”, 10th International Congress of the Hellenic Geographical Society, “Geography in an era of crisis”, Thessaloniki, October 2014.
16. Siachalou S., Mallinis G., Tsakiri-Strati M., 2015. “A Hidden Markov Models Approach for Crop Classification: Linking Crop Phenology to Time Series of Multi-Sensor Remote Sensing Data”, Remote Sensing 7(1):3633-3650, April 2015.

#### Γνώση Υπολογιστών

Microsoft Office (Word, Excel, PowerPoint, Access), Erdas Imagine, ENVI, Definiens Developer, ArcGIS, AutoCAD, Adobe Photoshop, Matlab.