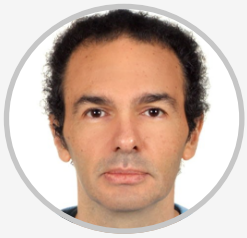
europass



Polychronis (Pol) Kolokoussis

Nationality: Greek | **Phone number:** (+30) 2107722599 (Work) | **Phone number:** (+30) 6944359972 (Mobile) | **Email address:** polkol@central.ntua.gr | **Email address:** p.kolokoussis@geosystems-hellas.gr | **Email address:** pol.kolokoussis@gmail.com | **Website:** http://users.ntua.gr/polkol/ | **LinkedIn:** https://www.linkedin.com/in/pol-kolokoussis-03a71a57/ | **ORCID:** https://orcid.org/0000-0002-5420-0900 | **Scopus:** https://www.scopus.com/authid/detail.uri?authorId=54405865200 | **WoS:** https://www.webofscience.com/wos/author/record/AAL-6030-2021 | **Google Scholar:** https://scholar.google.it/citations?hl=it&pli=1&user=IykImT8AAAAJ

ABOUT ME

Earth Observation and Geospatial AI researcher with more than 30 years of of research and professional experience in remote sensing, geospatial analysis and the development of Earth Observation applications and services. My scientific and technical expertise covers multispectral, hyperspectral, thermal, SAR and LiDAR remote sensing, using satellite, airborne, UAV, ground-based and underwater sensing platforms.
My research focuses on the development and application of advanced methods for EO data analysis, including image processing, data fusion, change detection, environmental monitoring and natural-hazard assessment, as well as the integration of remote sensing with GIS and geospatial information systems. In recent years, my work has increasingly focused on Artificial Intelligence for Earth Observation, including machine and deep learning, Foundation Models, multimodal and zero-shot approaches, and their application to large-scale geospatial and Earth Observation data.
I combine a long academic and research background at the National Technical University of Athens with international academic experience at the Geomatics and Earth Observation Laboratory (GEOlab) of Politecnico di Milano and experience in the private EO sector as Project Manager for AI & Data Analysis at Geosystems Hellas. I have extensive experience in European and ESA-funded research and innovation activities, contributing to and managing projects covering environmental monitoring, climate resilience, natural hazards, forestry, marine and coastal applications, security and downstream space services.
My current research interests lie at the intersection of Earth Observation, GeoAI and Big Earth Data analytics, with particular emphasis on exploiting emerging AI and Foundation Model technologies for the development of scalable, transferable and operational Earth Intelligence applications.

WORK EXPERIENCE

VISITING FACULTY – POLITECNICO DI MILANO, GEOMATICS AND EARTH OBSERVATION LABORATORY (GEOLAB) – 01/10/2023 – Current – MILANO, ITALY

PROJECT MANAGER – GEOSYSTEMS HELLAS S.A. – 15/03/2023 – Current – ATHENS, GREECE

Project management and technical coordination of Earth Observation, AI and downstream space application activities within European Commission and ESA-funded research and innovation projects. Contribution to project planning, technical implementation, proposal preparation, deliverables and coordination with international project partners.

TEACHING STAFF – NATIONAL TECHNICAL UNIVERSITY OF ATHENS (NTUA), LAB OF REMOTE SENSING (RSLAB) – 2002 – Current

INDEPENDENT EXPERT WORKING ON DOWNSTREAM SPACE APPLICATIONS – GEOSYSTEMS HELLAS S.A. – 01/01/2021 – 31/12/2022 – ATHENS, GREECE

COLLABORATOR – KTIMATOLOGIO S.A. - EUROPEAN PROGRAMMES DIVISION – 1998 – 2002

Participation as a collaborator in the European Programmes run by the Division

STAFF AND RESEARCH COLLABORATOR – NATIONAL TECHNICAL UNIVERSITY OF ATHENS (NTUA), LAB OF REMOTE SENSING (RSLAB) – 1998 – 2002

RESEARCH COLLABORATOR – NATIONAL TECHNICAL UNIVERSITY OF ATHENS (NTUA), LAB OF REMOTE SENSING (RSLAB) – 1993 – 1998

Participation in the research programmes of the laboratory

FREELANCER SURVEYING ENGINEER – 1993 – Current

EDUCATION AND TRAINING

2008
DOCTOR ENGINEER National Technical University of Athens, Remote Sensing Laboratory

Thesis Development of an Integrated System of Hyperspectral and Thermal Remote Sensing Sensors for the Detection of Coastal and Submarine Springs

1993
RURAL & SURVEYING ENGINEER School of Rural and Surveying Engineering of the National Technical University of Athens (NTUA)

Field of study Remote Sensing | **Final grade** 7.64/10 |

Thesis Evaluation of the Capabilities of Digital Photointerpretation Keys (diploma thesis degree: 10/10)

LANGUAGE SKILLS

Mother tongue(s): **GREEK**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Operating Systems

Unix-Linux/X-windows | Windows/DOS systems | MacOS

Programming & AI/ML

C | Python | Fortran | Basic | R | Bash/Cshell scripts | ML Frameworks: PyTorch, TensorFlow, scikit-learn | Foundation Model frameworks and libraries

Geospatial & EO

ESA SNAP | ENVI | ERDAS | eCognition | ERMapper | PCI Geomatica | Idrisi | QGIS | GRASS | SAGA GIS | GDAL | ORFEO toolbox | ArcGIS | AutoCAD | BricksCAD | ArchiCAD

Web/Cloud

Geoserver | WebGIS technologies | Docker/containerised applications | cloud-based EO processing

Remote sensing related technical skills

Development of prototype constructions for close-range hyperspectral image acquisitions. | Organization and realization of hyperspectral in situ measurements. | Acquisition/preprocessing of aerial hyperspectral and thermal imagery | Acquisition/preprocessing of drone multispectral imagery.

Other technical skills

Long experience in construction and maintenance of electronic/electrical and mechanical equipment

PUBLICATIONS

(a) In scientific journals:

Temenos A., Verykokou S., Papatheodorou E., Soile S., Ioannidis C., Doulamis A.,Doulamis N., Potsiou C., Kontopoulos C., Kolokousis P. et al. 2026. "S2GAIA: A seasonally aware multi-year dataset for deep learning-based land cover mapping using sentinel-2 imagery in Greece"|, Remote Sensing Applications: Society and Environment, 2026-08, Journal article, DOI: 10.1016/j.rsase.2026.102197

Bernd Resch, Polychronis Kolokoussis, David Hanny, Maria Antonia Brovelli, Maged N. Kamel Boulos, "The Generative Revolution: AI Foundation Models in Geospatial Health-Applications, Challenges and Future Research", International Journal of Health Geographics 24, March 2025, DOI: 10.1186/s12942-025-00391-0

Polychronis Kolokoussis, Lan Mu, Maged N Kamel Boulos, 2025. "The Generative Revolution: A Brief Introduction", International Journal of Health Geographics 24, March 2025, DOI: 10.1186/s12942-025-00392-z

Theocharidis, C.; Eliades, M.; Kolokoussis, P.; Miltiadou, M.; Danezis, C.; Gitas, I.; Kontoes, C.; Hadjimitsis, D., 2025. "Exploring Sentinel-1 Radar Polarisation and Landsat Series Data to Detect Forest Disturbance from Dust Events: A Case Study of the Paphos Forest in Cyprus". MDPI Remote Sensing, 2025, 17, 876. https://doi.org/10.3390/rs17050876

Mohanad Diab, Polychronis Kolokoussis and Maria Antonia Brovelli, 2025. "Optimizing zero-shot text-based segmentation of remote sensing imagery using SAM and Grounding DINO", Artificial Intelligence in Geosciences, Artificial Intelligence in Geosciences, 6(11):100105, DOI: 10.1016/j.aiig.2025.100105 - also published as EurekAlert newsletter, "Zero-shot AI for remote sensing: A new pipeline for automated image segmentation", https://www.eurekalert.org/news-releases/1074620

Papakonstantinou A., Moustakas A., Kolokoussis P., Papageorgiou D., de Vries R., Topouzelis K., 2023, "Airborne Spectral Reflectance Dataset of Submerged Plastic Targets in a Coastal Environment", MDPI Data, 8, 19. https://doi.org/10.3390/data8010019

Kremezi M., Kristollari V., Karathanassi V., Topouzelis K., Kolokoussis P., Taggio N., Aiello A., Ceriola G., Barbone E. and Corradi P., 2022. "Increasing the Sentinel-2 potential for marine plastic litter monitoring through image fusion techniques", Marine Pollution Bulletin, Vol 182, 113974, https://doi.org/10.1016/j.marpolbul.2022.113974

Taggio N., Aiello A., Ceriola G., Kremezi M., Kristollari V., Kolokoussis P., Karathanassi V., Topouzelis K., Barboned E., Corradie P., 2022, "Combination of Machine Learning Algorithms for Marine Plastic Litter Detection on Hyperspectral PRISMA Data", MDPI Remote Sensing, 14(15), 3606; https://doi.org/10.3390/rs14153606

Miltiadou M., Karathanassi V., Agapiou a., Theocharidis C., Kolokousis P., Danezis C., 2022, "A selection of experiments for understanding the strengths of time-series SAR data analysis for finding the drives causing phenological changes in Paphos forest, Cyprus", MDPI Remote Sensing, 14(15), 3581; https://doi.org/10.3390/rs14153581

Andronis V., Karathanassi V., Tsalapati V., Kolokoussis P., Miltiadou M., Danezis C., 2022. "Time Series Analysis of Landsat Data for Investigating the Relationship between Land Surface Temperature and Forest Changes in Paphos Forest, Cyprus", MDPI Remote Sensing, 14, 1010. https://doi.org/10.3390/rs14041010

Kremezi M., Kristollari V., Karathanassi V., Topouzelis K., Kolokoussis P., Taggio N., Aiello A., Ceriola G., Barbone E. and Corradi P., 2021. "Pansharpening PRISMA Data for Marine Plastic Litter Detection Using Plastic Indexes", IEEE Access, Vol. 9, pp. 61955-61971, DOI: 10.1109/ACCESS.2021.3073903

Kopsachilis V., Siciliani L., Polignano M., Kolokoussis P., Vaitis M., De Gemmis M. and Topouzelis K. (2021). "Semantically-Aware Retrieval of Oceanographic Phenomena Annotated on Satellite Images", Information 2021, 12(8), 321, MDPI, https://doi.org/10.3390/info12080321

Giannakopoulou, S., Kolokoussis, P., Arvanitis, A. 2020. "Teritorial disparities between mountains and lowlands in Greece in the context of post-2020 Cohesion Policy", Geographia Polonica Vol. 93 No. 3 (2020), IGiPZ PAN, DOI: 10.7163/GPol.0182

Kampouri M., Kolokoussis P., Argialas D., Karathanassi V., 2019. "Mapping of Forest Tree Distribution and Estimation of Forest Biodiversity using Sentinel-2 Imagery in the University Research Forest Taxiarchis in Chalkidiki, Greece", Geocarto International, Vol 34, Issue 12, DOI: 10.1080/10106049.2018.1489424

Athanassas, C.D., Vaiopoulos, A., Kolokoussis, P., Argialas D., 2018. "Remote Sensing of Mars: Detection of Impact Craters on the Mars Global Surveyor DTM by Integrating Edge- and Region-Based Algorithms", Earth Moon Planets, DOI: 10.1007/s11038-018-9515-3

Kolokoussis P., Karathanassi V., 2018. "Oil Spill Detection and Mapping Using Sentinel 2 Imagery." Journal of Marine Science and Engineering, 6(1):4, DOI: 10.3390/jmse6010004.

Lazoglou M., Kolokoussis P., Dimopoulou E., 2016. "Investigating the Use of a Modified NSGA-II Solution for Land-Use Planning in Mediterranean Islands", Journal of Geographic Information System 8(3):369-386, June 2016, DOI: 10.4236/jgis.2016.83032.

Sismanidis P., Karathanassi V., Kolokoussis P., 2014. "De-shadowing of airborne imagery using at-sensor downwelling irradiance data", International Journal of Remote Sensing, Vol 35, Issue 19, pp. 6973-69921, DOI:10.1080/01431161.2014.960620, Taylor & Francis.

Sykas D., Karathanassi V., Kolokoussis P., 2013. "Development of a New Automatic Relative Radiometric Normalization Methodology for Multispectral and Hyperspectral Images", Journal of Remote Sensing Technology (open access), Vol 1, Issue 3, pp. 75-83 (November 2013), DOI: 10.18005/JRST0103003, Bowen Publishing (http://www.bowenpublishing.com/jrst/ paperInfo.aspx?PaperID=15107).

Kolokoussis P. and Karathanassi V., "Detection of Oil Spills and Underwater Natural Oil Outflow Using M ultispectral Satellite Imagery", International Journal of Remote Sensing Applications (open access), Vol 3, Issue 3 (September 2013), Science and Engineering Publishing Company, 2013 (http://www.ijrsa.org/paperInfo.aspx?ID=4837).

Kolokoussis P., Karathanassi V., Rokos D., Argialas D., Karageorgis A. P. and Georgopoulos D., 2011. "Integrating Thermal and Hyperspectral Remote Sensing for the Detection of Coastal Springs and Submarine Groundwater Discharges", International Journal of Remote Sensing, Vol.32, No. 23, pp. 8231-8251, Taylor & Francis.

Andreou Ch., Karathanassi V., Kolokoussis P., 2010. "Investigation of Hyperspectral Remote Sensing for Mapping Asphalt Road Conditions", International Journal of Remote Sensing, Vol. 32, No. 21, pp. 6315-6333, Taylor & Francis.

Karathanassi V., Kolokoussis P., Ioannidou S., Rokos D., 2007. "A comparison study on fusion methods and evaluation indicators", International Journal of Remote Sensing, Vol. 28, No. 10, pages 2309–2341, Taylor & Francis.

Rokos D., Kolokoussis P., 2004. "Natural Regeneration Potential and Soil Erosion Risk after Forest Fires in Typical Mediterranean areas", Local Land & Soil News No. 10/11/II/III/04, European Land and Soil Alliance ELSA e.V.

Rokos D., Kolokoussis P., 1996. "The Use of Remote Sensing in the Evaluation of the Natural Regeneration Potential, Erosion Risk and Desertification Risk after Forest Fires", Advances in Remote Sensing, Vol. 4, No. 4, XI-1996, EARSeL.

(b) In proceedings of conferences and workshops with peer review

---

Giannopoulos G., Koutsantoni P., Karathanassi V., Demesticha S., Apeitos G., Demetriou A., Giatsiatsou P., Kolokoussis P., Gasparatos J., 2026. "Hyperspectral Image Acquisitions for Monitoring Underwater Cultural Heritage", Advances in Nondestructive Evaluation Technologies for the Preservation of Cultural Heritage, 2025, Springer Nature, Switzerland, Cham, pp 184-199, DOI: 10.1007/978-3-032-13156-0_12

Georgios P. Georgalas, Polychronis Kolokoussis, Sofia Laskari and Konstantinos Soukis, 2025. "Automatic Detection and Extraction of Geological Lineaments on Amorgos Island Using Satellite Data and Open-Source Software", 17th International Congress of the Geological Society of Greece (GSG2025), 28-31 May 2025, Mytilene, Lesvos, Greece.

Mohanad Diab, Polychronis Kolokoussis, Maria Antonia Brovelli, 2025. "LangRS: Optimizing Zero-Shot Semantic Segmentation of Remote Sensing Imagery", Oral presentation at the "ESA-NASA International Workshop on AI Foundation Model for EO", 5-7 May 2025, Frascati, Italy.

Alexandros Voukenas, Vassilis Andronis, Alexandros Nikitas, Pol Kolokousis and Efthimios Bakogiannis, 2025. "The effect of building heights on the relationship of NDVI and GVI: A case study in Athens, Greece", IEEE Joint Urban Remote Sensing Event (JURSE2025), 4-7 May 2025, Gammarth-Tunis, Tunisia.

George Giannopoulos, Pelagia Koutsantoni, Vassilia Karathanassi, Stella Demesticha, George Apeitos, Anna Demetriou, Paschalina Giatsiatsou, Pol Kolokoussis and John Gasparatos, 2025. "Hyperspectral Image Acquisitions for Monitoring Underwater Cultural Heritage", 4th International TMM_CH Conference, April 07–09, 2025, Athens, Greece.

Göktuğ Yaşar Çukurlu, Nusret Demir, Pol Kolokoussis, Fulya (Aydın) Kandemir and Ecmel Erlat, 2025. "Investigation of InSAR Coherence Data and Frequency Ratio for Analyzing Forest Fires: A Case Study of Yamanlar/Izmir" at the ISPRS EARSeL & DGPF Joint Istanbul Workshop, held at Yıldız Technical University, 29-31 January 2025.

Matej Žgela, Alberto Vavassori, Polychronis Kolokoussis, Maria Antonia Brovelli, 2024. "Assessing and validating spectral unmixing of hyperspectral PRISMA imagery in Milano with implications for urban climate", 75th International Astronautical Congress (IAC), Milan, Italy, 14-18 October 2024, DOI: 10.52202/078362-0065

Kolokoussis P., Skamantzari M., Tapinaki S., Karathanassi V., Georgopoulos A., 2021. "3D and Hyperspectral Data Integration for Assessing Material Degradation in Medieval Masonry Heritage Buildings", XXIV ISPRS Congress, Commission II, WGII/8, 4-10 July 2021, Nice, France

Konstantinidou E.E., Kolokoussis P., Topouzelis K., Moutzouris-Sidiris I., 2019. "An open source approach for oil spill detection using Sentinel-1 SAR images", 7th International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2019); 1117412 (2019) https://doi.org/10.1117/12.2539256

Karamvasis K., Kolokoussis P., Karathanassi V., De Pasquale V., Ceriola G., 2018. "A Methodology for Monitoring the Upwelling Phenomenon Using Sentinel-3 products", RSCy2018 - Sixth International Conference on Remote Sensing and Geo-Information of Environment, 26-29 March 2018, Paphos, Cyprus.

Miltiadou M., Papoutsa C., Karathanassi V., Kolokousis P., Lafon V., Sykas D., Sarelli A., Prodromou M. and Hajimitsis D., 2018. "Detection of Marine Fronts; a Comparison between Different Approaches Applied on the SST Product Derived from Sentinel-3 data", RSCy2018 - Sixth International Conference on Remote Sensing and Geo-Information of Environment, 26-29 March 2018, Paphos, Cyprus.

Polignano M., De Gemmis M., Kopsacheilis V., Vaitis M., Malig J., Grether D., Ioannou I., Sarelli A., De Pasquale V., Samarelli S., Kolokoussis P., Karamvasis K., Miltiadou M., Papoutsa C., Regniers O., Lafon V., Topouzelis K., Despotov B., 2018. "A Semantic Representation of EO data for Image Retrieval Based on Natural Language Queries", RSCy2018 - Sixth International Conference on Remote Sensing and Geo-Information of Environment, 26-29 March 2018, Paphos, Cyprus.

Kontopoulou E., Kolokoussis P., Karantzalos K., 2014, "Water quality estimation in Greek lakes from Landsat 8 multispectral satellite data", International Symposium of EWRA on "Water Utility Support", 5 June 2014, NTUA, Athens.

Psalta A., Karathanassi V. and Kolokoussis P., 2016. "Modified versions of slic algorithm for generating superpixels in hyperspectral images", 8th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), 21-24 August 2016, Los Angeles, USA, IEEE.

Stavrakoudis D., Gitas I., Karydas C., Kolokoussis P., Karathanassi V., 2015. "Accurate multi-source forest species mapping using the multiple spectral–spatial classification approach", Proc. SPIE 9643, Image and Signal Processing for Remote Sensing XXI, 964324 (15 October 2015), DOI: 10.1117/12.2194663.

Karathanassi V., Andreou C., Andronis V., Kolokoussis P., 2014. "Effects of band selection on endmember extraction for forestry applications", Proc. SPIE 9245, Earth Resources and Environmental Remote Sensing/GIS Applications V, 92451O (23 October 2014), DOI: 10.1117/12.2067293.

Argialas D., Argyridis A., Skandali D., and P. Kolokousis, 2012. "Extraction of the Foreshore Area from High Resolution Airborne Imagery Using Object Based Image Analysis: Vegetation Border Criterion", FIG Commission 3 Workshop on Spatial Information, 10-14 December 2012, Athens, Greece.

Sykas D., Karathanassi V., Andreou Ch. and Kolokoussis P., 2011. "Oil Spill Thickness Estimation Using Unmixing Methods", Proceedings of the 3rd Workshop on Hyperspectral Image and Signal Processing: WHISPERS 2011 (6-9 June, 2011, Lisbon, Portugal), IEEE.

Sykas D., Karathanassi V., Andreou C. and Kolokoussis P., 2011, "Oil Spill Mapping Using Hyperspectral Methods and Techniques", Proceedings of the Tenth International Conference on the Mediterranean Coastal Environment, (MEDCOAST), October 2011, Rhodes, Greece.

Andreou C., Karathanassi V., Kolokoussis P., 2011. "Spectral Library for Oil Types", proc. 34th International Symposium on Remote Sensing of the Environment (ISRSE). April 10-15, 2011, Sydney, Australia.

Karathanassi V., Kolokoussis P., Ioannidou S., 2009. "Independent Component Analysis for coastal water mapping using hyperspectral datasets", In proceedings of: "First Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, WHISPERS '09", DOI:10.1109/WHISPERS. 2009.5289048, IEEE.

Kouli, M., Vamvoukakis, K., Karen St. Seymour, Karfakis, I., Kolokousis, P., 5Lamera, S., Denes, G., Rokos, D., 2002. "Localization of Volcanic Structures in the Miocene Volcanic Field of Lesbos Island, Northeastern Aegean, Combining Remote Sensing Methods and Techniques with Geological Field Exploration", Proceedings of the 6th International Conference of the Hellenic Geographical Society, Thessaloniki, Hellas, Oct, 2002.

Panagiotopoulou, E., Kolokoussis, P., Lavalle, C., "Urban and Regional Planning: the city of Heraklion", 28th International Symposium on Remote Sensing of Environment (27-31st March 2000, Cape Town, South Africa).

Rokos D., Argialas D., Panagiotopoulou E., Andronis V., Kolokoussis P., 1993. "Structuring a GIS Decision Support System for the Prevention of Desertification Resulting from Forest Fires.", Proceedings of the Workshop on Forest Mapping and Fire Management (Thessaloniki, Greece, 4-6 November 1993), EARSeL.

(c) In proceedings of conferences and workshops with abstract review:

E. Marinou, P. Kolokoussis, C. Kontopoulos, V. Charalampopoulou, 2024. "Empowering Citizen-Driven Climate Resilience and Inclusive Governance for a Sustainable Blue Economy in Mediterranean Coastal Regions", EGU 18th PLINIUS Conference on Mediterranean Risks, 30 September-3 October 2024, Chania, Greece, https://meetingorganizer.copernicus.org/ Plinius18/Plinius18-47.html

Cukurlu G.Y., Demir N., Kolokoussis P., 2024. "Determination of Forest Fire Damage Through Coherence Values from InSAR Data", ISAG 2024, Wroclaw, Poland, 9-10 May 2024.

Karathanassi, V., Karamvasis, K., Kristolari, V., Kolokoussis, P., Skamantzari, M., and Georgopoulos, A., 2024. "Remote sensing techniques for monitoring cultural heritage sites", EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-10181, https://doi.org/10.5194/egusphere-egu24-10181

Papakosmas T., Kolokoussis P., Karantzalos K., 2022, "Quantification of ecological light pollution in the Region of Epirus with remote sensing and GIS methods", 10th Interdisciplinary-Interuniversity Conference of the NTUA, 22-24 September 2022, Metsovon, Greece.

Andronis V., Kolokoussis P., Vassili-Vassiliou K., Karathanassi V., 2022, "Penalized Variable Selection in Bayesian Spectral Spatial Species Separation", 10th Interdisciplinary-Interuniversity Conference of the NTUA, 22-24 September 2022, Metsovon, Greece.

Stratis P., Kolokoussis P. Argialas D., "Recognition of organic cultivation practices by remote sensing technics", 3rd Geographic information Systems and spatial analysis in Agriculture and Environment conference, Athens, December 2019.

Kolokoussis P., Lazoglou M., Galanos I., Dimopoulou E., 2016. "Applying Genetic Algorithms for Land Use Planning in Mountain Areas", Proceedings of the 8th Interdisciplinary-Interuniversity Conference of the NTUA "The Integrated Development of Mountainous and Geographically Solitary Regions", 22-24 September 2016, Metsovon, Greece.

Kampouri M., Kolokoussis P., Argialas D., Karathanassi V., 2016. "Investigation on the distribution of forest tree species and biodiversity in Taxiarchis University Forest in Chalkidiki, using hyperspectral and multispectral imagery", Proceedings of the 8th Interdisciplinary-Interuniversity Conference of the NTUA "The Integrated Development of Mountainous and Geographically Solitary Regions", 22-24 September 2016, Metsovon, Greece.

Beka S., Kolokoussis P., Argialas D., 2016. "Detection of buildings -as a Development Component- Using Geomorphometry and Object Based Image Analysis", Proceedings of the 8th Interdisciplinary-Interuniversity Conference of the NTUA "The Integrated Development of Mountainous and Geographically Solitary Regions", 22-24 September 2016, Metsovon, Greece.

Galanos I., Kolokoussis P., 2010. "Landslide risk zone mapping using Remote Sensing and GIS methods", Proceedings of the 6th Interdisciplinary-Interuniversity Conference of the NTUA "The Integrated Development of Mountainous Regions" (16-19 September 2010, Metsovon, Greece), NTUA, Athens.

Argialas D., Georgopoulos A., Rokos D., Ioannidis C., Alvertos N., Paragios N., Papadaki E., Kolokoussis P., Iossifides C., Mavrantza O., Papasaika C., Noutsou V., Tzotsos A., Deltsidis P., Pantelis M., Karantzalos K., 2007. "Development of advanced remote sensing - photogrammetry techniques for urban geospatial database creation", PYTHAGORAS - Conference for the scientific research in the National Technical University of Athens, 5-8 July 2007, Plomari, Lesvos.

Kolokoussis P., Andronis V., Iossifides Ch., Vassili-Vassiliou K., Rokos D., 2007. "Production of land use and change detection maps for the Region of Epirus using remote sensing methods and techniques. A contribution to Regional Development infrastructure", Proceedings of the 4th Interdisciplinary-Interuniversity Conference of NTUA "The Integrated Development of Epirus", (23-26 September 2004, Metsovon, Greece), NTUA, Athens.

Rokos, D., Iossifides, C., Kolokoussis, P., 2004. "Exploration of Capabilities of the New Remote Sensing Satellites LANDSAT 7 and IKONOS in Change Detection and Mapping of Mountain Regions", Proceedings of the 3rd Interdisciplinary-Interuniversity Conference of NTUA "Integrated Development Of Mountainous Regions. Theory And Practice" (7-10 June 2001, Metsovon, Greece), NTUA, Athens.

Rokos D., Argialas D., Andronis V., Kolokoussis P., Karathanassi V., 1998. "Structuring an Integrated Information System for Development and the Environment for the province of Metsovo", Proceedings of the 1st Interdisciplinary-Interuniversity Conference of NTUA "The National Technical University of Athens for Metsovo - Paying Back a Part of the Debt" (5-6 May 1995, Metsovo, Greece), NTUA, Athens.

Kolokoussis P. and Rokos D., 1995. "The use of remote sensing in the evaluation of the natural regeneration potential and desertification risk after forest fires in the prefecture of Attica.", Proceedings of the 1st workshop of the Hellenic National Space Committee (26-27 January 1995, Athens, Greece), National Research Foundation, Athens.

(d) Other publications/posters/presentations:

Baglatzi A., Charalampopoulou V., Kolokoussis P., Ganas A., et al, 2025. "Sat4GAIA: Greek National Satellite Space Project:Axis 3 Land Monitoring Service", Poster at the "Living Planet Symposium", 23-27 June 2025, Vienna, Austria.

Fatemeh Soleimaniansomarin, Polychronis Kolokoussis, Maria Antonia Brovelli, 2025. "Adapting a Pre-trained Foundation Model for Secret Runway Detection in Sentinel-2 Satellite Imagery: A Performance Evaluation", Poster at the "ESA-NASA International Workshop on AI Foundation Model for EO", 5-7 May 2025, Frascati, Italy (accepted).

V. Charalampopoulou, E. Marinou, C. Kontopoulos, P. Kolokoussis, 2024. "Utilizing Copernicus Satellite Imagery Open Data Infrastructures for User-driven applications and Tools for Climate-Informed Maritime Spatial Planning", EGU 18th PLINIUS Conference on Mediterranean Risks, 30 September-3 October 2024, Chania, Greece, https://meetingorganizer.copernicus.org/ EGU24/ EGU24-2538.html

Kolokoussis P., Kontopoulos C., Voskopoulos G., Charalampopoulou V., 2024. "Selene & Helios - The first Greek Earth Observation Cubesats are in preparation phase", Poster presentation at RSCy2024, Tenth International Conference on Remote Sensing and Geoinformation of Environment 8-9 April, 2024, Cyprus.

Kremezi M., Kristollari V., Karathanassi V., Kolokoussis P., 2022, "Enhancing PRISMA and Sentinel 2 Capabilities for Marine Plastic Litter Detection Using Image Fusion Techniques, Spectral Signature Unmixing and Spectral Indexes", 41st EARSeL Symposium 2022, 13-16 September, Paphos, Cyprus.

Kolokoussis P. and Papagiannopoulos-Miaoulis I., 2022. "QGIS user guide", based on the relevant training at the premises of the Region of Central Macedonia in the framework of the work "Supply of Equipment of the Observatory of the Coastal Zone of the Region of Central Macedonia".

Valsamidis T., Karathanassi V., Kolokoussis P., Andronis V., 2019, "Raw materials' detection using hyperspectral remote sensing techniques. Case study W. Milos, Greece", 15th International Congress of the Geological Society of Greece – GSG2019, Athens, 22-24 May 2019.

Argyridis A., Argialas D., Skandali D., and P. Kolokousis, 2011. "Development of a knowledge base in an object-based image analysis system for the extraction and identification of shorelines", 15th Joint Geomorphological Meeting, 1-4 June 2011, Athens, Greece

Panagiotopoulou, E., Kolokoussis, P., "Contribution of night pass LANDSAT-7 data in urban planning", ESA/ESRIN LANDSAT-7 Workshop (11-12th May 2000, Frascati, Italy).

Rokos D., Kolokoussis P., 1997. "Monitoring of the natural regeneration after forest fires using satellite remote sensing methods and techniques". 2nd Workshop "Human network for the Dissemination of the R&D knowledge" (13-14 February 1997, Thessaloniki).

Rokos D., Kolokoussis P., 1996. "Post fire mapping of typical Mediterranean forest areas using LANDSAT TM images. A knowledge based approach for the prediction of forest sustainability.", Poster presentation in the "International Conference on Mediterranean Desertification", 29 Oct - 21 Nov 1996, Heraklion, Greece.

Rokos D., Kolokoussis P., 1995, "The Use of Remote Sensing in the Evaluation of Natural Regeneration Potential, Erosion Risk and Desertification Risk, after Forest Fires.", EARSeL Workshop on "Remote Sensing and GIS Applications in Forest Fire Management", 7-9 September 1995, Alcalá de Henares, Spain

(e) In books:

Stratis P., Kolokoussis P. Argialas D., "Recognition of Organic Cultivation Practises Using Remote Sensing Methods and Techniques", "Measurement routes - Honorary volume dedicated to the memory of Evangelia Lamprou, Professor of the NTUA", NTUA, 2021.

CONFERENCES AND SEMINARS

05/05/2026 – 07/05/2026 ESA-ESRIN, Frascati, Italy
StatEO26

27/04/2026 – 29/04/2026 Paphos, Cyprus
RSCy 2026, 12th International Conference on Remote Sensing and Geoinformation of Environment

25/09/2026 – 27/09/2026 Metsovo, Greece
11th Interdisciplinary-Interuniversity Conference of the NTUA

23/06/2025 – 27/06/2025 Vienna, Austria
Living Planet Symposium

05/05/2025 – 07/05/2025 Frascati, Italy
ESA-NASA International workshop on AI Foundation Model for Earth Observation

14/04/2025 – 15/04/2025 Warsaw, Poland
3rd ESA Security Conference

30/10/2024 Brussels, Belgium
CAMS & C3S for commercial applications, EARSC

14/10/2024 – 18/10/2024 Milan, Italy
75th International Astronautical Congress (IAC)

07/07/2024 – 12/07/2024 Athens, Greece
IGARSS 2024, IEEE International Geoscience and Remote Sensing Symposium

08/04/2024 – 09/04/2024 Pafos, Cyprus
RSCy2024, Tenth International Conference on Remote Sensing and Geoinformation of Environment

31/10/2023 – 02/11/2023 Athens, Greece
WHISPERS 2023, 13th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing

03/07/2023 – 06/07/2023 DLR Oberpfaffenhofen, Germany
FPCUP Summer-School and Workshop Copernicus for Cultural Heritage

05/06/2023 – 06/06/2023 ESA – ESTEC, Holland
Workshops for Greek CubeSat Projects of the Greek National Telecom Satellite Project

05/07/2021 – 09/07/2021
2021 Digital Event of the XXIV ISPRS Congress.

19/05/2021 – 21/05/2021
«University of the Aegean Research & Innovation days – Dimitris Eduard Gardikis».

19/11/2020
Dissemination workshop of project MARRE: "System for Environmental Monitoring of the Greek Seas with the Use of Satellite Remote Sensing Data and In-situ mesaurements"

26/03/2018 – 29/03/2018 Paphos, Cyprus
RSCy2018 - Sixth Internatioanal Conference on Remote Sensing and Geo-Information of Environment

07/10/2016 National Hellenic Research Foundation (N.H.R.F), Athens, Greece
Copernicus Information and Training Session in Greece

22/09/2016 – 24/09/2016 Metsovo, Greece
8th Interdisciplinary-Interuniversity Conference of the NTUA "Integrated Development of Mountainous and Geographically Solitary Regions"

15/07/2014 Athens Innovation Center, Athens, Greece
Copernicus Masters Competition 2015 Workshop

05/06/2014 School of Rural & Surveying Engineering, NTUA, Athens
International Symposium of the European Water Resources Association (EWRA) "Water Utility Support"

12/05/2014 – 15/05/2014
Copernicus - Sentinels Serving Society and the Environment

Eugenides Foundation, Athens, Greece

12/09/2013 – 15/09/2013 Metsovo, Greece
7th Interdisciplinary-Interuniversity Conference of the NTUA "Integrated Development in Greece in an Era of Multidimensional Crisis. Causes, Responsibilities, Proposals, Measures, Actions and Perspectives"

21/11/2012 Isola d' Elba, Italy
International Conference: "New strategies and technologies for the safety of navigation in the Mediterranean sea"

30/07/2012 Zakynthos, Greece
Workshop "Marine pollution, Monitoring Sustems and treatment"

16/09/2010 – 19/09/2010 Metsovo, Greece
6th Interdisciplinary-Interuniversity Conference of the NTUA "The Integrated Development of Mountainous Areas"

14/09/2009 – 19/09/2009 Metsovon Conference Center and Metsovion Interdisciplinary Research Center (MIRC), Metsovo, Greece
International Technical Workshop "SLR Tracking of GNSS Constellations, 50 Years of Satellite Geodesy and Geodynamics"

04/12/2008 – 05/12/2008
5th Conference "Geographical Information Systems - Environment & Development"

11/12/2007 Technical Chamber of Greece, NTUA, Athens
Workshop "Proactive planning and management of Natural Hazards. The role of Surveying Engineers"

03/12/2007 – 04/12/2007 NTUA, Athens, Greece
Symposium "The National Technical University on the lead of research and technology"

27/09/2007 – 30/09/2007 Metsovo, Greece
5th Interdisciplinary-Interuniversity Conference of the NTUA "Education-Research-Technology. Yesterday and tomorrow"

22/02/2007 – 23/02/2007 Planetek Hellas, Athens, Greece
"Spatial Information in 4D"

22/02/2007 – 23/02/2007 Tech. Chamber of Greece, Geo-Tech. Chamber of Greece, Greek Society of Photogrammetry and Rem. Sens
Workshop "Remote Sensing: Development and Applications"

07/11/2006 – 09/11/2006 Athens, Greece
21st European conference for ESRI users. Marathon Data Systems

23/09/2004 – 26/09/2004 Metsovo, Greece
4th Interdisciplinary-Interuniversity Conference of the NTUA "The Integrated Development of Epirus"

07/06/2001 – 10/06/2001 Metsovo, Greece
3rd Interdisciplinary-Interuniversity Conference of the NTUA "Integrated Development Of Mountainous Regions. Theory and Practice"

16/04/2000 – 18/04/2000 Ispra, Italy
Workshop, Programme Athens 2004 – ASTRON, JRC/SAI

13/02/1997 – 14/02/1997 Thessaloniki, Greece
2nd Workshop "Human network for the Dissemination of the R&D knowledge"

29/10/1996 – 21/11/1996 Heraklion, Greece
International Conference on Mediterranean Desertification

05/05/1995 – 06/05/1995 Metsovo, Greece
1st Interdisciplinary-Interuniversity Conference of the NTUA "The National Technical University of Athens for Metsovo - Paying Back a Part of the Debt"

26/01/1995 – 27/01/1995 Athens, Greece
The 1st workshop of the Hellenic National Space Committee

13/06/1994 – 16/06/1994 Valencia, Spain
Experts Workshop on "Remote Sensing for Land Degradation and Desertification Monitoring in the Mediterranean Basin - State of Art and Future Research"

18/05/1994 – 24/05/1994 Athens, Greece
MEDALUS II Group Meeting and Conference

29/11/1993 – 01/12/1993 Frascati, Italy
"Optical to ERS-1 Cross-over training course" of ESA / Eurimage

04/11/1993 – 06/11/1993 Thessaloniki, Greece
EARSeL Workshop on "Forest Mapping and Fire Management"

PROJECTS

01/11/2024 – 30/04/2027
BORDERFORCE: Flexible Bordersystem Adaptable to Crises

Horizon Research and Innovation Program Horizon Europe (HORIZON-CL3-2023-BM-01-01), Grant Agreement: 101168316, Duration: 2024-2027, 30 months - Role: EO lead

01/12/2024 – 31/05/2027
THEIA: Enhancing Copernicus Security Services - EU governmental crisis management hub for forced population displacement

Horizon Research and Innovation Program Horizon Europe (HORIZON-CL4-2024-SPACE-01), Grant Agreement: 101190051, Duration: 2024-2027, 30 months - Role: WP leader

30/11/2024 – 30/11/2025

Stratification of the LUCAS GRID 2025

Eurostat Framework contract on Services for Development, Maintenance and Use of Geographical Information Systems ESTATGIS2-000058-6000053089-REQ-01, Partners: Sword Group, Geosystems Hellas, Engineering SPA - Role: EO lead & technical manager

2024 – 2026

OCEANIDS: User-driven applications and tools for Climate-Informed Maritime Spatial Planning and integrated seascape management, towards a resilient & inclusive Blue Economy

Horizon Europe (2021-2027) Research and Innovation Programme, Grant Agreement: 101112919, Duration: 2024-2026, 32 months.

01/09/2024 – 31/07/2026

Sat4Φorest: Greek National Satellite Space Project: Axis 3, Forest Monitoring Service

ESA Contract No. 4000145362/24/NL/VA, Duration: 2024-2026 , 24 months - Role: PA/QA manager

01/09/2024 – 31/07/2026

Sat4GAIA: Greek National Satellite Space Project: Axis 3, Land Monitoring Service

ESA Contract No. 4000145364/24/NL/Ffi, Duration: 2024-2026, 24 months - Role: PA/QA manager

01/09/2024 – 31/08/2026

Golden Twins: Enabling rapid and responsive prototyping EO services for islands

ESA InCubed, Idea I-2023-10367, Proposal Reference CM/020/Prop_001. Partners: Geosystems Hellas, EMTECH, AUTH, NTUA, NKUA - Role: PM

2023 – 2026

EO-PERSIST: A Cloud-Based Remote Sensing Data System For Promoting Research And Socioeconomic Studies In Arctic Environments.

HORIZON-MSCA-2021-SE-01-01, Grant Agreement number: 101086386, Partners: Harokopio University of Athens, National Technical University of Athens, CloudEO Ellas I.K.E., PlanetGIS SKY SRL, Universitatea Din Bucuresti, YetItMoves SRL, CloudFerro, CloudEO AG, Ilmatieteen Laitos FMI, Lunds Universitet

2023 – 2026

THETIDA: Technologies and methods for improved resilience and sustainable preservation of underwater and coastal cultural heritage to cope with climate change, natural hazards and environmental pollution.

HORIZON-CL2-2022-HERITAGE-01-08, Grant Agreement number: 101095253, Partners: Institute of Communication and Computer Systems, EdgeLab s.r.l., Eindhoven University of Technology, University of Padova, National Technical University of Athens, Universidade Do Algarve, Norwegian Institute for Cultural Heritage Research, SignalGeneriX Ltd, ResilienceGuard, MOOI Noord-Holland, Cyprus Marine and Maritime Institute, Centro de Ciência Viva do Algarve, IANTD s.r.l., Association Européenne EURISY, Ephorate of Antiquities of Cyclades, University of Cyprus, Marina Diving di Corrado Ambrosi

2023 – 2025

HELLENIC SPACE DAWN - HELIOS & SELENE: Greek CubeSats in-orbit validation projects

ESA Contract No. 4000140681/23/NL/ND, Partners: EMTech Space PC, ISD SA, HERON Engineering, LEO Space Photonics, Geosystems Hellas SA, Aristotelian University of Thessaloniki, National and Kapodistrian University of Athens, Hellenic Navy

2023 – 2025

HARMONIA: Development of a Support System for Improved Resilience and Sustainable Urban areas to cope with Climate Change and Extreme Events based on GEOSS and Advanced Modelling Tools

Horizon 2020 Research and Innovation Programme, Grant Agreement: 101003517, Duration: 2021-2025, 44 months.

2023 – 2025

TRIQUETRA: Toolbox for Assesing and Minigating Climate Change Risks and Natural Hazards Threatening Cultural Heritage

EU Horizon Europe Research and Innovation programme (HORIZON-CL2-2022-HERITAGE-01), Grant Agreement: 101094818, 2023-2025, Duration 36 months.

2023 – 2025

EURMARS: An Advanced Surveillance Platform to Improve the European Multi Authority Border Security Efficiency And Cooperation

Horizon Research and Innovation Program Horizon Europe (HORIZON-CL3-2021-BM-01-01), Grant Agreement: 101073985, Duration: 2023-2025, 36 months.

2023 – 2024

SPOTTED: Spatio-Temporal Fusion and Artificial Intelligence for Debris Detection.

Funded by ESA/Planetek Italia S.R.L., Partners: by Planetek Italia SRL and the National Technical University of Athens. ESA contract: 4000141234/23/NL/GLC/ov.

2023 – 2024

CO-PROTECT: Cluster of Interoperable and Holistic Civil Protection Systems

Competitiveness, Entrepreneurship, and Innovation (EPANEK 2014-2020), Grant agreement No: ΓΓ2CL-0363842. Partners: Satways Ltd, Draxis Environmental SA, GAP Analysis SA, Future Intelligence Ltd, Exus Software, Consortis, Geosystems Hellas, Inforest Research, Prisma Electronics, Space Hellas SA, Omikron Environmental Consultants SA, TotalView Ltd, Aegean Solutions, Telenavis SA, Europort SA, Weather & Marine Engineering Technologies PC, Altus LSA SA, Grid Engineering SA, Redi Engineering Solutions, European Dynamics SA.

2023 – 2024

MAGINet: Geospatial Information Networking Techniques for Maritime Awareness Services

ESA AO 1-11190, Duration: 2023-2024,18 months.

2022 – 2023

AQUASAFE: Towards a Precision Aquaculture Geoinformation System

University of the Aegean (Department of Marine Sciences), Geospatial Enabling Technologies, Hellenic Center for Marine Research (Institute of Oceanography), Plagton SA. Funded under the call Research-Create-Innovate.

2020 – 2022

HYPERION: Development of a Decision Support System for Improved Resilience & Sustainable Reconstruction of historic areas to cope with Climate Change & Extreme Events based on Novel Sensors and Modelling Tools

Institute of Communication and Computer Systems, Ilmatieteen Laitos, Resilience Guard Gmbh, Oslomet-Storbyuniversitetet, National Technical University of Athens, Risa Sicherheitsanalysen Gmbh, Universita Degli Studi di Padova, Universidad de Granada, Aristotelian University of Thessaloniki, Cy.R.I.C Cyprus Research and Innovation Center Ltd, Universita Iuav di Venezia, Vestfold Fylkeskommune, Comune di Venezia, Municipality of Rhodes, Ephorate of Antiquities of the Dodecanese, Ayuntamiento de Granada, Intercultural Euro Mediterranean Center for UNESCO, Red Spa, H2020-LC-CLA-2018-2019-2020/H2020-LC-CLA-2018-2, Grant Agreement number: 821054.

2020 – 2021

REACT: cRowdsourcing, copErnicus and hyperspectral Satellite data for mArine litter deteCtion, quanTification and tracking

Planetek Italia S.R.L., National Technical University of Athens, Agenzia Regionale per la Prevenzione e la Protezione dell' Ambiente - Puglia, ESA contract no. 4000131235/20/NL/GLC "OSIP Remote Sensing for Marine Litter-Early Technology Development Scheme"

2020 – 2021

ASTARTE: Analysis of SAR and Thermal satellite time-series dAta foR understanding the long-term impact of land surface TEmperature changes on forests project

National Technical University of Athens, Cyprus University of Technology, EXCELLENCE/0918/0341 (the Project is co-financed by the European Regional Development Fund and the Republic of Cyprus through the Research Promotion Foundation).

2019 – 2021

MARRE: System for Environmental Monitoring of the Greek Seas with the Use of Satellite Remote Sensing Data and In-situ mesaurements

Geospatial Enabling Technologies, Hellenic Centre for Marine Research, Univeristy of the Aegean – Marine Remote Sensing Group, **"**Competitiveness, Entrepreneurship & Innovation 2014-2020**"**

2016 – 2019

SEO-DWARF: Semantic EO Data Web Alert and Retrieval Framework

H2020-MSCA-RISE-2015-691071

2018

Hyper-urban: Analysis of Hyperspectral Imagery for the Extraction of Spectral Signatures of the Urban Environment

CalCon Holding GmbH, National Technical Unniversity of Athens.

2017 – 2018

MATERIAL: Analysis of Spectral Signatures of the Urban Environment

CalCon Holding GmbH, National Technical Unniversity of Athens

2012 – 2015

TeleKyoto: 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

Operational Program for Educational and Vocational Training II (EPEAEK-II), MIS 377293.

2012 – 2015

UrbanMonitor: Automatic Detection and Modelling of 2D and 3D Changes in the Urban Environment from Multi-Modal, Multi-Temporal Remote Sensing Data

Operational Program for Educational and Vocational Training II (EPEAEK-II), MIS 380134.

2010 – 2012

HydroSense: Innovative precision technologies for optimised irrigation and integrated crop management in a water-limited agrosystem

co-funded by LIFE and Environment (LIFE08 ENV/GR/0000570), Research partners: Goulandris Natural History Museum, Benaki Phytopathological Institute, University of Thessaly, National Agricultural Research Foundation and Agricultural University of Athens.

2009 – 2012

ARGOMARINE: Automatic Oil spill Recognition and Geopositioning integrated in a Marine Monitoring Network

7th Framework Programme, Research partners: National Park of the Tuscany Archipelago (Coordinator) - PNAT (ITALY), National Technical University of Athens - NTUA (GREECE), National Research Council – Institute of Information Science and Technologies - CNR-ISTI (ITALY), Nansen Environmental and Remote Sensing Center - NERSC (NORWAY), Centro de Investigacao Marinha e Ambiental – Universidade do Algarve - CIMA-UALG (PORTUGAL), Scensive Technologies Limited - ST (UNITED KINGDOM), National Maritime Park of Zakinthos - NMPZ (GREECE), Joint Research Center – Institute for the Protection and Security of the Citizen - JRC (EU)

2005 – 2007

Investigation of the Possibilities and Limitations of the Analog and Digital Remote Sensing Methods for the Identification and Mapping of Transmission and Subtransmission Energy Lines

Funded by the Public Power Corporation S.A.

2005 – 2007

Developing a Decision Support System for the Management of Natural and Man-Made Hazards in the Eastern Attica Prefecture

PYTHAGORAS II project is a part of the Operational Program for Educational and Vocational Training II (EPEAEK-II), which is co-funded by the European Social Fund (75%) and National Resources (25%).

2005 – 2006

DISMA: DISaster MAnagement GIS with emphasis on cultural sites

INTEREG IIIC, Research partners: Centre for the Assessment of Natural Hazards & Proactive Planning (NTUA), Fundação Gomes Teixeira da Universidade do Porto (FGT-UP), Department of Natural Resources Management and Agricultural, Engineering- Agricultural University of Athens (NRMAE-AUA), Centre National de la Recherche Scientifique-CNRS – CEPAM.

2003 – 2006

IRIS: Development of an airborne remote sensing hyperspectral system for the detection of submarine and coastal springs

CSF 2000-2006, Secretariat General for Research and Development, Operational Programme Competitiveness, Action 4.5.1, Practice: Natural Environment and Sustainable Development.

1997 – 2000

APERTURE: environmentAl tyPological spacE mappeR facilitating the implemenTation of eURopean lEgislation

funded by the EE ENVIRONMENT Program and carried out by the Remote Sensing Laboratory of the NTUA in cooperation with the Ministry of Agriculture of Greece, IIS SA, CNIG, GEOSYS, Ministry of Environment of Spain, European Center of Public Law, Imperial College, Universitat Bremem, Universidad Autonoma de Barcelona, Universite de Limoges, Instituto per Ambiente.

1996 – 2000

DeCETI: Development of a Common Educational and Training Infrastructure for the Integration of Remote Sensing, Digital Processing of Satellite Imagery, Photo-Interpretation and GIS methods, techniques and applications.

Case-Study:ThemonitoringandprotectionoftheforestecosystemsintheGreaterAreaofUrbanConglomerations.
[funded by the EEC Programme LEONARDO DA VINCI, and carried out by the Remote Sensing Laboratory of the NTUA in cooperation with: a) the University of Surrey, United Kingdom, b) the Universite Paul Sabatier, France, c) the Hellenic Cadastral and Mapping Organization-HECMO, Greece and d) Consulting Engineering Firms].

1996 – 1998

Investigation of the Possibilities of the Integrated Remote Sensing and GIS Information in the Hydrogeological Research of Naxos Island

funded by Secretariat General of Research and Technology, Greece

1993 – 1997

Contribution of Remote Sensing and Digital Image Processing in Facing the Problems of Metropolitan Cities

funded by the Secretariat General of Research and Technology and the Municipality of Nikaia, Greece

1995 – 1996

Development of a Digital Remotely Sensed Imagery Processing Software for Agricultural Applications in the Specific Natural and Socioeconomic Conditions of Greece (PHASE II)

funded by the Ministry of Agriculture and the Secretariat General of Research and Technology, Greece and carried out by the Remote Sensing Laboratory of the NTUA

1994 – 1996

FIRES : Forest Image Processing Supported by Expert System

funded by the EEC and carried out by the Remote Sensing Laboratory of the NTUA in cooperation with: a) the Centro di Ricerche e Servizi Avanzati per la Formazione-SCIENTER, Italy, b) the Centro Nacional de Informacao Geographica-CNIC, Portugal and c) Integrated Information Systems S.A., Greece.

1993 – 1995

Development of Operational Methods and Techniques for the Integration of the Possibilities of Photo-Interpretation and Remote Sensing in Agricultural Statistics

funded by the General Secretariat of Research and Technology, Greece

1992 – 1995

A GIS Decision Support System for the Prevention of Desertification Resulting from Forest Fires

funded by the EEC and carried out by the Remote Sensing Laboratory of the NTUA in cooperation with: a) the National Agriculture Research Foundation, Greece, b) the University of Surrey, United Kingdom and c) the Institute for Image Processing and Computer Graphics - DIBAG, Graz, Austria.

1993 – 1994

Application of Machine Vision Techniques in the Quality Control of Pharmaceutical Solutions

funded by the Ministry of Labor, Greece and the European Social Fund

1992 – 1994

Development of a Digital Remotely Sensed Imagery Processing Software for Agricultural Applications in the Specific Natural and Socioeconomic Conditions of Greece

funded by the Ministry of Agriculture and the Secretariat General of Research and Technology, Greece and carried out by the Remote Sensing Laboratory of the NTUA

HONOURS AND AWARDS

2001

"D. Thomaides" award for innovative scientific publication – National Technical University of Athens

1998

"D. Thomaides" award for innovative scientific publication – National Technical University of Athens

1997

2-year Scholarship – National Technical University of Athens

1993

3-year Scholarship – National Greek Scholarship Foundation (IKY)

Obtained the scholarship after successful examinations in Photointerpretation, Digital Remote Sensing and Computer Programming, for postgraduate studies on Remote Sensing.

1993

"Lampadarios" award – Academy of Athens

Received the award for scientific excellence.

1992

"Vassilios Kontodimos" award – National Technical University of Athens

Award for the best degree at the last semester of the School of Rural & Surveying Engineering

OTHER SCIENTIFIC ACTIVITIES

Reviewer in a range of international journals:

ISPRS Journal of Photogrammetry and Remote Sensing (Elsevier)
ISPRS Internationl Journal of Geo-Information (MDPI)
Remote Sensing (MDPI), Sensors (MDPI), Water (MDPI)
Clean – Soil, Air, Water (Wiley)
Access (IEEE)
Water Resources Management (Springer)
Journal of Coastal Conservation (Springer)
Science of the Total Environment (Elsevier)
Journal of Geographic Information System (Sientific Research Publishing)

etc

Independent Expert Evaluator for FP7 and H2020 proposals (Earth Observation domain)

Independent Expert Evaluator for STEREO IV proposals

TEACHING ACTIVITIES

2003 – 2023
Teaching assistant in the Interdisciplinary-Interdepartmental Programme of Postgraduate Studies "Mathematical standardization in modern technologies and the economy" of the NTUA

2006 – 2023
Teaching assistant in the Interdisciplinary-Interdepartmental Programme of Postgraduate Studies "Marine & sea technology and science" of the NTUA

1999 – 2023
Teaching assistant in the Interdisciplinary-Interdepartmental Programme of Postgraduate Studies "GeoInformatics" of the NTUA

2008 – CURRENT
Teaching in the Interdisciplinary-Interdepartmental Programme of Postgraduate Studies "Environment & Development" of the NTUA

1999 – 2023
Training and education of the students attending the summer exercise courses of Photointerpretation and Remote Sensing of the School of Rural and Surveying Engineering of the NTUA

1999 – 2023
Teaching assistant in the "Radiometry & Microwave Remote Sensing" course of the School of Rural and Surveying Engineering of the NTUA

1999 – 2023
Teaching assistant in the "Digital Remote Sensing" course of the School of Rural and Surveying Engineering of the NTUA

1996 – 1997
Teaching assistant in the "Special Methods of Digital Remote Sensing" course of the School of Rural and Surveying Engineering of the NTUA

1993 – 1996
Teaching assistant in the "Special Applications of Digital Remote Sensing" course of the School of Rural and Surveying Engineering of the NTUA

1993 – 2023
Teaching assistant in the "Photointerpretation & Remote Sensing" and "Special Courses of Remote Sensing" courses of the School of Rural and Surveying Engineering of the NTUA

1993 – 1994
Participated, as teaching assistant, in four continuing education seminars carried out at the NTUA, titled: "G.I.S." and "Digital Image Processing of Remote Sensing Images"

NETWORKS AND MEMBERSHIPS

1993 – CURRENT
Member of Technical Chamber of Greece

1993 – CURRENT
Member of the Hellenic Association of Rural and Surveying Engineers

DRIVING LICENCE

Driving Licence: B