

CURRICULUM VITAE



PERSONAL DATA

Surname: Kolokoussis (*or Kolokousis*)
First name: Polychronis (*Pol*)
Nationality: Hellenic
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1. PROFESSIONAL EXPERIENCE

- 1993 - current National Technical University of Athens**
- 2002-present Teaching staff of the Remote Sensing Laboratory of the NTUA.
 - 1998-2002 Staff and Research collaborator of the Remote Sensing Laboratory of the NTUA.
 - 1993-1998 Research collaborator of the Remote Sensing Laboratory of the NTUA (participation in the research programmes of the laboratory)
- 2023 - current Visiting Researcher at the Geomatics and Earth Observation Laboratory (GEOlab), Department of Civil and Environmental Engineering (DICA), Politecnico di Milano**
- 2023 - current Geosystems Hellas SA**
Project Manager AI & Data Analysis
- 2021 - 2022 Geosystems Hellas SA**
Independent expert working on downstream space applications
- 1998 - 2002 Ktimatologio S.A. - European Programmes Division**
Participation as a collaborator in the European Programmes run by the Division
- 1993 - 2016 and 2023 - current Freelancer Surveying Engineer**

Professional registration since 1993:

- Member of Technical Chamber of Greece
- Member of the Hellenic Association of Rural and Surveying Engineers

2. ACADEMIC EDUCATION

(a) Diplomas

- 1993** Rural & Surveying Engineer, School of Rural and Surveying Engineering of the National Technical University of Athens (NTUA). Diploma thesis on Remote Sensing, entitled: "Evaluation of the Capabilities of Digital Photointerpretation Keys" (diploma thesis degree: 10 out of 10). Diploma degree 7.64 out of 10.
- 2008** Doctor Engineer of the National Technical University of Athens. Doctorate thesis title: "Development of an Integrated System of Hyperspectral and Thermal Remote Sensing Sensors for the Detection of Coastal and Submarine Springs", Remote Sensing Laboratory, School of Rural and Surveying Engineering, NTUA

(b) Scholarships & Awards

- 2001** "D. Thomaides" award for innovative scientific publication in 2001.
- 1998** "D. Thomaides" award for innovative scientific publication in 1998.
- 1997 - 1998** Scholarship of the National Technical University of Athens, Greece.
- 1993 - 1996** Obtained a scholarship from the National Greek Scholarship Foundation (IKY) after successful examinations in Photointerpretation, Digital Remote Sensing and Computer Programming, for postgraduate studies on Remote Sensing.
- 1993** Received the "Lampadarios" award, by the Academy of Athens, for scientific excellence.
- 1992** "Vassilios Kontodimos" award for the best degree at the last semester of the School of Rural & Surveying Engineering

3. PERSONAL SKILLS

- **Mother tongue(s):** Greek
- **Other language(s):**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

- **Digital skills:**

Long experience in administration and use of Unix-Linux/X-windows, MacOS and Windows/DOS systems.

Programming in: C, Python, Fortran, Basic, Bash/Cshell scripts etc., specialised in digital image processing and databases. Experienced user of Remote Sensing, GIS and CAD software packages like: ESA SNAP, eCognition, ENVI, ERDAS, ERMapper, PCI Geomatica, Idrisi, ORFEO toolbox, QGIS, ArcGIS, SAGA GIS, GRASS, Geoserver, ArcServer, ArcIMS, Image Web Server, AutoCAD, ArchiCAD, BricsCAD, as well as many other programmes running under

Linux/Windows/MacOS. Also experienced in computer network administration and the creation of Web Pages and Web Servers.

- **Remote Sensing related technical skills:**

Acquisition/preprocessing of aerial hyperspectral and thermal imagery. Development of prototype constructions for close-range hyperspectral image acquisitions (buildings, patients etc). Acquisition/preprocessing of drone multispectral imagery. Organization and realization of hyperspectral in situ measurements.

- **Other technical skills:**

Long experience in construction and maintenance of electronic/electrical equipment as well as other mechanical devices.

- **Driving license:**

Category B

4. TEACHING ACTIVITIES

2003 - present	Teaching assistant in the Interdisciplinary-Interdepartmental Programme of Postgraduate Studies "Mathematical standardization in modern technologies and the economy" of the NTUA
2006 - present	Teaching assistant in the Interdisciplinary-Interdepartmental Programme of Postgraduate Studies "Marine & sea technology and science" of the NTUA
1999 - present	Teaching assistant in the Interdisciplinary-Interdepartmental Programme of Postgraduate Studies "Geoinformatics" of the NTUA
1999 - present	Teaching in the Interdisciplinary-Interdepartmental Programme of Postgraduate Studies "Environment & Development" of the NTUA
2008 - present	Teaching in the Interdisciplinary-Interdepartmental Programme of Postgraduate Studies "Environment & Development of Mountainous Regions" of the NTUA
1999 - present	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 - present	Teaching assistant in the "Radiometry & Microwave Remote Sensing" course of the School of Rural and Surveying Engineering of the NTUA
1999 - present	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 - present	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".

5. RESEARCH ACTIVITIES

(a) Participation in European and National research programmes

Participation in the following research programmes of the NTUA and other universities/ institutes/ companies:

2024 - 2026	Sat4GAIA: "Greek National Satellite Space Project: Axis 3, Land Monitoring Service" , ESA Contract No. 4000145364/24/NL/Ffi, Duration: 2024-2026, 24 months.
2024 - 2026	Sat4Forest: "Greek National Satellite Space Project: Axis 3, Forest Monitoring Service" , ESA Contract No. 4000145362/24/NL/VA, Duration: 2024-2026, 24 months.
2024 - 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.
2024 - 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.
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.
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	MAGINet: "Geospatial Information Networking Techniques for Maritime Awareness Services" , ESA AO 1-11190, Duration: 2023-2024, 18 months.
2023 - 2025	TRIQUETRA: "Toolbox for Assessing and Minimizing 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	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 - 2024	SPOTTED: Spatio-Temporal Fusion and Artificial Intelligence for Debris Detection. Planetek Italia S.R.L., National Technical University of Athens, funded by ESA/Planetek Italia SRL, ESA contract: 4000141234/23/NL/GLC/ov Duration: 2023-2024.
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.

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. HORIZON-CL2-2022-HERITAGE-01-08, Grant Agreement number: 101095253

- 2023 - 2026** **“EO-PERSIST”: A Cloud-Based Remote Sensing Data System For Promoting Research And Socioeconomic Studies In Arctic Environments.** Harokopio University of Athens, National Technical University of Athens, CloudEO Ellas I.K.E., PlanetGIS SKY SRL, Universitatea Din Bucuresti, YetIttMoves SRL, CloudFerro, CloudEO AG, Ilmatieteen Laitos FMI, Lunds Universitet, HORIZON-MSCA-2021-SE-01-01, Grant Agreement number: 101086386.
- 2023 - 2025** **“HELLENIC SPACE DAWN - HELIOS & SELENE”: Greek CubeSats in-orbit validation projects.** 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, ESA Contract No. 4000140681/23/NL/ND
- 2023 – 2024** **“CO-PROTECT”: Cluster of Interoperable and Holistic Civil Protection Systems.** 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. Competitiveness, Entrepreneurship, and Innovation (EPANEK 2014-2020), with grant agreement No: ΓΓ2CL-0363842.
- 2023 - 2025** **MAGINet: "Geospatial Information Networking Techniques for Maritime Awareness Services"** Use cases: Dark Vessel Detection | Monitoring of Fishing Fleets in Fishing Areas. ESA Contract No. AO 1-11190. Partners: Geosystems Hellas S.A., LuxSpace Sàrl, University of Luxembourg - SnT
- 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, Università Degli Studi di Padova, Universidad de Granada, Aristotelian University of Thessaloniki, Cy.R.I.C Cyprus Research and Innovation Center Ltd, Università 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 measurements"**, Geospatial Enabling Technologies, Hellenic Centre for Marine Research, University 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 University of Athens.
- 2017 - 2018** **"MATERIAL: Analysis of Spectral Signatures of the Urban Environment"**, CalCon Holding GmbH, National Technical University 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 Zakynthos - NMPZ (GREECE), Joint Research Center – Institute for the Protection and Security of the Citizen - JRC (EU)
- 2008 - 2009** **"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	"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.
2005 - 2006	"Developing a Decision Support System for the Management of Natural and Man-Made Hazards in the Eastern Attica Prefecture" , Funded by the prefecture of East Attica.
2005 - 2007	"Development of innovative remote sensing and photogrammetric techniques for the creation of urban geospatial databases" , 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%).
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 IEgislation" (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: The monitoring and protection of the forest ecosystems in the Greater Area of Urban Conglomerations" [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).
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 - 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).
- 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).
- 1993 - 1994** **"Application of Machine Vision Techniques in the Quality Control of Pharmaceutical Solutions"** (funded by the Ministry of Labour, Greece and the European Social Fund).
- 1992 - 1995** **"PHOENIX: 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].
- 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).

(b) Participation in other programmes and works as external collaborator

- 2020 - 2022** **GeoSystems Hellas SA**
Provision of services in the work: "Supply of Equipment of the Observatory of the Coastal Zone of the Region of Central Macedonia"
- 2019 - 2021** **InCommon civil non-profit company**
Participation in the project "Kafsimo: Recycling of coffee residue in terms of social inclusion and fair economy"
- 2019 - 2021** **Planetek Hellas**
Participated as a research collaborator of Planetek Hellas in "SYSYFOS: Development of an integrated High Performance and Reliability System for Compression and Management of Hyperspectral Image Data", National and Kapodistrian University of Athens, University of Piraeus, Planetek Hellas, Teletel, "Competitiveness, Entrepreneurship & Innovation 2014-2020"
- 2018 – 2020** **Geotopos SA**
Participated as a research collaborator of Geotopos SA in «VINO - Development of a method for the separation and mapping of Greek vineyard varieties using cutting-edge technologies in order to implement EU Directives, update the Viticultural Register and support PDO specifications", Competitiveness, Entrepreneurship & Innovation, I_T1EAK-00316.
- 2003 – 2004** **Geotopos SA**
Participated (during 2003), as a research collaborator of Geotopos SA in the continuation and successful completion of the following European

Programme: "Eye in the Sky – Use of Low Altitude Platforms for Traffic and Security During Big Events".

1998 - 2002

Ktimatologio SA

Participated from 1998 till 2002, as a research collaborator of Ktimatologio SA (Division of European Projects) in the following European programmes:

- Project: *"Eye in the Sky – Use of Low Altitude Platforms for Traffic and Security During Big Events"*
- Project: *"GALA - Use of GALILEO for Marine Navigation"*
- Project: *"Athens 2004 – Synergy of Space Applications"* (EC/JRC/ASTRON Programme).
- Project: *"Delineation of urban areas in Greece with the use of satellite data"* (self-funded).
- Project: *"Contribution of night pass LANDSAT-7 data in urban planning"* (LANDSAT-7 Pilot Projects).
- Project: *"MURBANDY (Monitoring URBAN DYnamics). Section CHANGE for the cities of Heraklion, Greece and Nicosia, Cyprus"* (EC/JRC/CEO Programme – Applications in the support of EC Services).
- Project: *"Education and training in the field of Earth Observation to support mapping and cadastral activities of professionals in Greece – MAPCAD-EO"* (EC/JRC/CEO Programme – "Education & Training").
- Project: *"Design of a framework for producing and providing Earth Observation based information Services for forest fire management at European and local levels) – Control-Fire-Sat"* (EC/Environment & Climate Programme).
- Project: *"LACOAST - LAnd cover changes in COASTal zones"* for Greece (EC/JRC/CEO Programme).

6. PUBLICATIONS

(a) In scientific journals:

1. Polychronis Kolokoussis, Lan Mu, Maged N Kamel Boulos, 2025. "The Generative Revolution: A Brief Introduction", International Journal of Health Geographics 24, March 2025 (in press), DOI: 10.1186/s12942-025-00392-z
2. 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 (in press), DOI: 10.1186/s12942-025-00391-0
3. 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>
4. 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>

5. 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>
6. 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>
7. Taggio N., Aiello A., Ceriola G., Kremezi M., Kristollari V., Kolokoussis P., Karathanassi V., Topouzelis K., Barbone E., Corradi 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>
8. Miltiadou M., Karathanassi V., Agapiou a., Theocharidis C., Kolokoussis 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>
9. 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>
10. 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
11. 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>
12. 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
13. 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
14. 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
15. 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.
16. 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.
17. 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.
18. 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>).

19. Kolokoussis P. and Karathanassi V., "Detection of Oil Spills and Underwater Natural Oil Outflow Using Multispectral 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>).
20. 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.
21. 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.
22. 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.
23. 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.
24. 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

1. 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, Lesbos, Greece (accepted).
2. 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 (accepted).
3. 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 (accepted).
4. George Giannopoulos, Pelagia Koutsantoni, Vassilia Karathanassi, Stella Demesticha, George Apeitos, Anna Demetriou, Paschalina Giatsiatou, 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 (accepted).
5. Göktuğ Yaşar Çukurlu, Nusret Demir, Pol Kolokoussis, Fulya (Aydın) Kandemir and Ecmel Erat, 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.
6. 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
7. 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

8. 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>
9. 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.
10. Miltiadou M., Papoutsas C., Karathanassi V., Kolokoussis 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.
11. 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., Papoutsas 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.
12. Kontopoulou E., Kolokoussis P., Karantzas 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.
13. 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.
14. 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.
15. 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.
16. Argialas D., Argyridis A., Skandali D., and P. Kolokoussis, 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.
17. 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.
18. 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.

19. 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.
20. 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.
21. 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.
22. 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).
23. 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

1. 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>
2. 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>
3. Cukurlu G.Y., Demir N., Kolokoussis P., 2024. "Determination of Forest Fire Damage Through Coherence Values from InSAR Data", IV International Symposium on Applied Geoinformatics (ISAG 2024), Wroclaw, Poland, 9-10 May 2024.
4. 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>
5. 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.
6. 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.
7. 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.

8. 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.
9. 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.
10. 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.
11. 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.
12. 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., Karantzas 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.
13. 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.
14. 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.
15. 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.
16. 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

1. 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).

2. 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.
3. 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.
4. 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.
5. De Pasquale V., Deflorio, A.M., Barbieri V., Kolokoussis P., Kremezi M., Pasquariello, G., 2019. "REDoX: Remote Early Detection of Xylella", white paper for SPECIM IQ contest, August 2019.
6. 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
7. 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).
8. 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).
9. 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.
10. 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:

1. 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.

(f) Technical reports:

1. "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", H2020-LC-CLA-2018-2019-2020/H2020-LC-CLA-2018-2, GA: 821054, Participation in the technical reports of the programme.
2. "REACT: cRowdsourcing, copErnicus and hyperspectral Satellite data for mArine litter deteCtion, quanTification and tracking", ESA contract no. 4000131235/20/NL/GLC "OSIP Remote Sensing for Marine Litter-Early Technology Development Scheme", Participation in the technical reports of the programme.
3. "ASTARTE: Analysis of SAR and Thermal satellite time-series dAta foR understanding the long-term impact of land surface TEmpérature changes on forests project", EXCELLENCE/0918/0341, Participation in the technical reports of the programme.

4. "Kafsimos: Recycling of coffee residue in terms of social inclusion and fair economy", InCommon civil non-profit company, Participation in the technical reports of the programme.
5. Kolokoussis P. and Papagiannopoulos-Miaoulis I., "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".
6. "SYSYFOS: Development of an integrated High Performance and Reliability System for Compression and Management of Hyperspectral Image Data", Participation in the technical reports of the programme.
7. «VINO - Development of a method for the separation and mapping of Greek vineyard varieties using cutting-edge technologies in order to implement EU Directives, update the Viticultural Register and support PDO specifications", Participation in the technical reports of the programme.
8. "SEO-DWARF - Semantic EO Data Web Alert and Retrieval Framework", Horizon 2020, MSCA-RISE-691071, Participation in the technical reports of the programme.
9. "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), Participation in the technical reports of the programme.
10. "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), Participation in the technical reports of the programme.
11. "ARGOMARINE - Automatic Oil-Spill Recognition and Geopositioning integrated in a Marine Monitoring Network". FP7-CP-FP, Grant Agreement number: SCP8-GA-2009-234096. Participation in programme proposal and all the technical reports of the programme.
12. "Development of innovative remote sensing and photogrammetric techniques for the creation of urban geospatial databases", PYTHAGORAS II project is a part of the Operational Program for Educational and Vocational Training II (EPEAEK-II), Participation in the technical reports of the programme.
13. "IRIS: Development of an airborne remote sensing hyperspectral system for the detection of submarine and coastal springs". Secretariat General for Research and Development, Operational Programme Competitiveness, Action 4.5.1, Practice: Natural Environment and Sustainable Development. Participation in programme proposal and all the technical reports of the programme.
14. Panagiotopoulou, E., Kolokoussis, P., Siourouni, K., "Delineation of urban areas in Greece with the use of satellite data – Progress Report", July 2000, KTIMATOLOGIO S.A. Athens, Greece.
15. Panagiotopoulou, E., Lykos, N., Kentouri, G., Kolokoussis, P., Siourouni, K., "Athens 2004 – Synergy of Space Applications – Final report", June 2000, EC/JRC/ASTRON programme, Contract 15428-1999-11 F1SCISPGR, KTIMATOLOGIO S.A., Athens, Greece.
16. Panagiotopoulou, E., Rokos, D., Kolokoussis, P., "Development of a Common Educational and Training Infrastructure for the Integration of Remote Sensing, Digital Processing of Satellite Imagery, Photointerpretation and GIS Methods, Techniques and Applications. Case Study: The Monitoring and Protection of the Forest Ecosystems in the Greater Area of Urban Agglomerations – Final Report", April 2000, LEONARDO DA VINCI Programme, Contract GR/96/2/0953/PI/II.1.1.C/FPC, National Technical University of Athens, Athens, Greece.
17. Panagiotopoulou, E., Kolokoussis, P., Siourouni, K., "MURBANDY Project – Section CHANGE for the cities of Heraklion and Nicosia – Final Report", January 2000, EC/JRC/CEO Programme, Contract 14072-1998-06 F1PCISPGR, KTIMATOLOGIO S.A. Athens, Greece.

18. Panagiotopoulou, E., Lykos, N., Kolokoussis, P., Velmahou, I., "Education and Training in the field of Earth Observation to support mapping and cadastral activities of professionals in Greece – MAPCAD-EO – Final Report", April 1999, EC/JRC/CEO Programme, Contract 14029-1998-06-F1PCISPGR, KTIMATOLOGIO S.A., Athens, Greece.
19. Panagiotopoulou, E., Kolokoussis, P., "Design of a Framework for producing and providing EO based information services for Forest Fire Management at European and local levels – Control-Fire-Sat – Interim Report", March 1999, EC Environment & Climate Programme – CEO Programme, Contract ENV4-CT97-0479, KTIMATOLOGIO S.A., Athens, Greece.
20. Rokos D., Karathanassi V., Andronis V., Iossifides C., Kolokoussis P., 1995. "Forest Image Processing Supported by Expert System - Third Progress Report", EEC Environment Research Programme, Contract EV5V-CT94-0476, NTUA, Athens.
21. Rokos D., Chalaris G., Andronis V., Kolokoussis P., 1995. "A GIS Decision Support System for the Prevention of Desertification Resulting from Forest Fires - Final Report", EEC Environment Research Programme, Contract No: EV5V-CT91-0025, NTUA, Athens.

7. PARTICIPATION IN CONFERENCES AND WORKSHOPS

14-18/10/2024	75 th International Astronautical Congress (IAC), Milan, Italy.
7-12/7/2024	IGARSS 2024, IEEE International Geoscience and Remote Sensing Symposium, Athens, Greece.
8-9/4/2024	RSCy2024, Tenth International Conference on Remote Sensing and Geoinformation of Environment, Cyprus.
31/10-2/11/2023	WHISPERS 2023, 13th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, Athens, Greece.
3-6/07/2023	FPCUP Summer-School and Workshop Copernicus for Cultural Heritage, DLR Oberpfaffenhofen, Germany.
5-6/6/2023	Workshops for Greek CubeSat Projects of the Greek National Telecom Satellite Project, ESA-ESTEC, Holland.
5-9/7/2021	2021 Digital Event of the XXIV ISPRS Congress.
19-21/5/2021	«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 measurements"
26-29/3/2018	RSCy2018 - Sixth International Conference on Remote Sensing and Geo-Information of Environment, Paphos, Cyprus.
7/10/2016	Copernicus Information and Training Session in Greece, National Hellenic Research Foundation (N.H.R.F), Athens, Greece.
22-24/9/2016	8 th Interdisciplinary-Interuniversity Conference of the NTUA "Integrated Development of Mountainous and Geographically Solitary Regions", Metsovo, Greece.
15/7/2014	Copernicus Masters Competition 2015 Workshop, Athens Innovation Center, Athens, Greece.
5/6/2014	International Symposium of the European Water Resources Association (EWRA) "Water Utility Support", School of Rural & Surveying Engineering, NTUA, Athens.

12-13/5/2014	Copernicus - Sentinels Serving Society and the Environment, Eugenides Foundation, Athens, Greece.
12-15/9/2013	7 th Interdisciplinary-Interuniversity Conference of the NTUA "Integrated Development in Greece in an Era of Multidimensional Crisis. Causes, Responsibilities, Proposals, Measures, Actions and Perspectives", Metsovo, Greece.
21/11/2012	International Conference: "New strategies and technologies for the safety of navigation in the Mediterranean sea", Isola d' Elba, Italy.
30/7/2012	Workshop "Marine pollution, Monitoring Sustems and treatment", Zakynthos, Greece
16-19/9/2010	6 th Interdisciplinary-Interuniversity Conference of the NTUA "The Integrated Development of Mountainous Areas", Metsovo, Greece.
14-19/9/2009	International Technical Workshop "SLR Tracking of GNSS Constellations, 50 Years of Satellite Geodesy and Geodynamics", Metsovon Conference Center and Metsovion Interdisciplinary Research Center (MIRC) of the NTUA, Metsovo, Greece.
4-5/12/2008	5 th Conference "Geographical Information Systems - Environment & Development", HellasGIs.
11/12/2007	Workshop "Proactive planning and management of Natural Hazards. The role of Surveying Engineers", Technical Chamber of Greece, NTUA, Athens.
3-4/12/2007	Symposium "The National Technical University on the lead of research and technology", NTUA, Athens.
27-30/9/2007	5 th Interdisciplinary-Interuniversity Conference of the NTUA "Education-Research-Technology. Yesterday and tomorrow", Metsovo, Greece.
8/5/2007	"Spatial Information in 4D". Planetek Hellas, Athens, Greece
22-23/2/2007	Workshop "Remote Sensing: Development and Applications", Technical Chamber of Greece, Geo-Technical Chamber of Greece, Greek Society of Photogrammetry and Remote Sensing.
7-9/11/2006	21 st European conference for ESRI users. Marathon Data Systems, Athens, Greece.
23-26/9/2004	4 th Interdisciplinary-Interuniversity Conference of the NTUA "The Integrated Development of Epirus", Metsovo, Greece.
7-10/6/2001	3 rd Interdisciplinary-Interuniversity Conference of the NTUA "Integrated Development Of Mountainous Regions. Theory and Practice", Metsovon, Greece.
16-18/4/2000	Workshop, Programme Athens 2004 – ASTRON, JRC/SAI, Ispra, Italy.
13-14/2/1997	2 nd Workshop "Human network for the Dissemination of the R&D knowledge", Thessaloniki.
29/10-21/11/1996	"International Conference on Mediterranean Desertification", Heraklion, Greece.
7-9/9/1995	EARSeL Workshop on "Remote Sensing and GIS Applications in Forest Fire Management", Alcalá de Henares, Spain.
5-6/5/1995	1 st Interdisciplinary-Interuniversity Conference of the NTUA "The National Technical University of Athens for Metsovo - Paying Back a Part of the Debt", Metsovo, Greece.
26-27/1/1995	The 1st workshop of the Hellenic National Space Committee, Athens, Greece.

- 13-16/6/1994** Experts Workshop on "Remote Sensing for Land Degradation and Desertification Monitoring in the Mediterranean Basin - State of Art and Future Research", Valencia, Spain.
- 18-24/5/1994** MEDALUS II Group Meeting and Conference, Athens, Greece.
- 29/11-1/12/1993** "Optical to ERS-1 Cross-over training course" of ESA / Eurimage, Frascati, Italy.
- 4-6/11/1993** EARSeL Workshop on "Forest Mapping and Fire Management", Thessaloniki, Greece.

etc

8. OTHER SCIENTIFIC ACTIVITIES

- Reviewer in a range of international journals:
 - ISPRS Journal of Photogrammetry and Remote Sensing (Elsevier)
 - ISPRS International 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 (Scientific Research Publishing)
 - etc
- Independent Expert Evaluator for FP7 and H2020 proposals (Earth Observation domain), and STEREO IV.