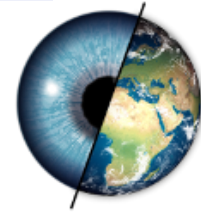


PANAYOTIS PARTSINEVELOΣ

Technical University of Crete
School of Mineral Resources Engineering
University Campus
73100 Chania, Crete, Greece
+030 28210 37676 - 7628
mob. +306974478823
email: ppartsinevelos@tuc.gr



www.senselab.tuc.gr

Short note:

Dr. Partsinevelos is a Professor in the areas of **Space Informatics** including **Geographic Information Systems (GIS)**, **Satellite Remote Sensing** and **Uncrewed Aerial Systems (UAVs)** in the School of Mineral Resources Engineering in the Technical University of Crete. He received his PhD in **Spatial Information Science & Engineering** from the University of Maine, part of the **National Center for Geographic Information and Analysis (NCGIA)** of USA and in a NASA sponsored center of excellence Remote Sensing Laboratory. He holds a Dipl. Eng. degree in **Surveying Engineering** from the National Technical University of Athens and has worked as a postdoctoral researcher in the Academic and Research Computer Technology Institute in Greece and as a GIS expert in the public sector. Besides his scientific publications, editorial positions and research projects as a coordinator, Dr. Partsinevelos has contributed significantly to the fields of **innovation and technology transfer**. Notably, he has served as the national representative of the Galileo and Copernicus Masters competitions in the realm of space innovation. Dr. Partsinevelos directs the **Space Informatics Research Team, SenseLab**, comprising of more than 30 multi-disciplinary members.

ACADEMIA- STUDIES

- 2008-current Technical University of Crete, Dept of Mineral Resources Engineering, Greece
Professor (since 2022),
Computational Analysis in Spatial Information Science
- 2006-2008 Ministry of Rural Development, Athens, Greece
Engineer, Geographic information systems expert
- 2006-2008 Technological Educational Institute of Athens, Dept. of Topography, Greece
External Academic Faculty in Special Topics on Remote Sensing
- 2005-2006 Technical University of Crete, Dept of Mineral Resources Engineering, Greece
External Academic Faculty-Lecturer in Remote Sensing and Geodesy
- 1997-2002 University of Maine Maine, USA
Researcher & Teaching Assistant
Digital Image Processing, Photogrammetry,

PROFESSIONAL STANDING

- 2004 Research Academic Computer Technology Institute, Athens, Greece
University of Patras
Postdoctoral researcher in Knowledge Management and GIS
- 2002 University of Maine MAINE, USA
Ph.D., Dept of Spatial Information Science & Engineering
Focus on GIS & Image Processing, Minor in Civil Engineering
GPA: 3.84
- 1996 National Technical University of Athens (NTUA) Athens, Greece
Dipl. Eng. in Surveying Engineering

Research Interests: [GIS, Remote Sensing, UAVs, Space, Machine Learning, Computational Analysis, Innovation]:

- Unmanned Aerial Vehicles for mapping/ communication/ collision avoidance,
- Navigation in GNSS-denied environments,
- UAV custom construction, autonomous behavior, algorithms and image processing, multi-modal navigation, object detection and tracking, hardware programming,
- GNSS coordinate precision enhancement fusing drones, on-board and real time analysis of collected data,
- Automation in precision landing on moving platforms,
- AI-deep learning algorithms for 3D mapping and navigation,
- Swarm collaborative missions, autonomous collaboration with unmanned terrestrial systems,
- Graphical user interfaces in spatial databases/ queries by sketch/ gestural user interfaces,
- Spatiotemporal data modeling/ topology/ scene similarity/ trajectory behavioral analysis,
- Multi-temporal satellite image processing/ classification novel algorithms/ monitoring,
- Location based services/ e-Government applications, Smart Cities, Space technology,
- GIS tangible systems/ 3D Visualization/ Mobile applications/ Crowdsourcing,
- Neuro-morphing and cognitive processes in image processing,
- Neural networks/ Self-organizing map generalization,
- Optimization of belt conveyor location in mines/ Image processing in mineral liberation
- Video processing for Natural Hazards monitoring,
- Space, geology, agriculture, environmental, mining, global change, architecture, archaeology, rockfall monitoring, indoors mapping, search & rescue, wetland and coastal monitoring, agrifood applications, powerline and infrastructure inspection, thermal inspection, underwater mapping and navigation, neuroscience applications.

SELECTED HONORS & AWARDS

2022, **Copernicus masters**, finalists, Federal Ministry 4 Digital and Transport of Germany,

2021, Featured paper **International Journal of Geo-Information**, for "Automated Geolocation in Urban Environments Using a Simple Camera-Equipped Unmanned Aerial Vehicle: A Rapid Mapping Surveying Alternative?",

2021, **Journal: Drones**, Highlighted – title story on the landing page, for "Aerial and Ground Robot Collaboration for Autonomous Mapping in Search and Rescue Missions",

2021, **Copernicus Masters**, National representative,

2018-2021, **Galileo Masters**, National representative,

2019, 1st place Globally, **Airbus** Earth Observation Challenge, Toulouse,

2018, 1st place Europe, **RMIT**, Innovation for Refugees, Jordan,

2017, 1st place Globally, **European Space Oscars, Satellite Masters**, Big Data Challenge,

2017, 3rd place Globally, **European Commission** Government Earth Observation Contest,

2016, Honor **Prize for Research Innovation & Outreach** presented from the Technical University of Crete. Commencement talk to the 2016 Graduate students,

2016, 1st place Globally, **European Satellite Navigation Competition**, University Challenge, for the project Message in a Bubble, a novel viral communication platform, <http://www.esnc.info/index.php?anzeige=uni16.html>,

2016, 1st place Globally, ESNC **European Global Navigation Satellite Systems Agency** (GSA), The most innovative application idea for Galileo Initial Services for the project Drones2GNSS, <http://www.esnc.info/index.php?anzeige=gsa16.html>,

2016, 2nd Overall Winner, **European Satellite Masters**, (among 413 expert teams) for the project Drones2GNSS, <http://www.esnc.info/newsletter/2016/nl8/newsletter.html>,

2016, 1st in Europe, 3rd globally, **Drones for Good** International Award, Save_ME project, (among 1017 teams, 165 countries), <https://dronesforgood.ae/finals/save-me-smartphone-uav-emergency-response>,

2016, shortlisted, **DJI Developer Challenge**, <https://developer.dji.com/challenge2016/#6>,

2016, Gold Medal, **Healthcare Business Awards**, smartDrone project, (National), <http://www.healthcareawards.gr/>,

2015 Winner, MyGEOSS, **Joint Research Center** EU, Global Earth Observation System of Systems, smart internet applications,

2015 1st Winner, **Copernicus Masters** & National Cadastre and Mapping Agency (NCMA) Spatio-temporal data visualization Challenge,

2015 **European Space Agency** and Copernicus Earth Monitoring Competition Finalist,

2015 Infocom World Conference, **National Cadastre and Mapping Agency & Hellenic Association of Mobile Application Companies**, Innovation Award,

2014 Microsoft Kinect II sensor, International pre-release program qualifiers,

2018 NVIDIA GPU Grant research,

2007 Future Perspectives of Geoinformation FOR ICM conference, Genoa, Italy
Second position on poster presentation,

2003-2004 Greek National Scholarship Foundation, Athens, Greece
Post-Doctorate Research Scholarship,

2000 International Society of Photogrammetry & Remote Sensing, International
International ISPRS Robert E. Altenhofen Memorial Scholarship Award

1998 University of Maine, Graduate Trustee Tuition Scholarship, MAINE, USA

1997-2001 Greek National Scholarship Foundation, Athens, Greece
Doctorate Scholarship,

1997 A. Onasis Foundation, Doctorate Scholarship, Greece

1991-1997 Several undergraduate scholarships and awards from
National Technical University of Athens,
Kondodimos prize (among 300 students),
Technical Chamber of Engineers (top 1% engineering students of Greece),
Greek National Scholarship Foundation (among 900 students).

2018, finalists, **NBG Business seeds**, Moving ART VR, Greece (National).

2017, Silver Medal, **Healthcare Business Awards**, Drones4all project, (National),

SELECTED RESEARCH PROJECTS

- Principal Investigator (P.I.). **“Astraios - Analysis of Skills, Training, Research, And Innovation Opportunities in Space”**, funded by the European Union (Horizon Europe), under Grant Agreement No. 101082636.
- P.I. **“Support for Entrepreneurship, Innovation and Maturity Actions for the Exploitation of the Research Activity and the New Products and Services developed at the Technical University of Crete”**, funded by the Operational Programme Human Resources Development Education and Lifelong Learning, co-funded by Greece and the European Union (ESF), MIS 5161068.
- P.I. **“Operational funding of Technology Transfer Structures and Actions at the Technical University of Crete”** funded by the Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020, (EPAnEK), co-funded by Greece and the European Union (ERDF), MIS 5136151.
- Co-PI. **“AID4PV: UAV-based decision-making and modular approach to support PV plant diagnosis using EL, RGB, IRT imagery, correlated with electrical data analysis and advanced reporting and geovisualization”**, SOLAR-ERA.NET, 2021-ongoing.
- P.I., **“SandMap”**, co-financed by Greece and the European Union under the call RESEARCH-CREATE-INNOVATE II, 2020-ongoing.
- P.I., **“Drones 2 GNSS: UAV enabled precision measurements in obstructed environments”**, co-financed by Greece and the European Union under the call RESEARCH-CREATE-INNOVATE (project code: T1EDK-03209), 2018-ongoing
- P.I. - Coordinator, **Crete-GIS, an all-inclusive GIS architecture for the island of Crete**, Prefecture of Crete, 2017-ongoing.
- Research Task Leader, **“DESiRES-DESign of DESalination systems based on optimal usage of multiple Renewable Energy Sources”** (ERANETMED_NEXUS-14-049) funded by the ERA-NET Initiative “EURO-MEDITERRANEAN Cooperation through ERANET joint activities and beyond (ERANETMED)”.
- Co- P.I., **Development of a prototype real 3-D forming touch table for interactive 3-D Geographical Information System**, “Cooperation 2011” funded from the Operational Program “Competitiveness and Entrepreneurship”, cofunded by the European Regional Development Fund, managed by the Greek General Secretariat for Research and Technology 2012-2015, budget: 1,392,900 Euros.
- P.I. - Coordinator, **Information Center for Natura 2000 areas of Crete – WebGIS**, Prefecture of Crete, 2014-2015.
- P.I. - Coordinator, **Mapping of steep Rocks near Palaiochora highway using Unmanned Aerial Vehicles**, Municipality of Palaiochora, Greece, 2015.
- Project Coordinator: **Development of a prototype Unmanned Aerial Swarm Communication System for mapping missions**, Innovation and Entrepreneurship of the University of Crete, Operational Program Education and Learning, Co-funded from the European Union and National Funds, 2015.
- Researcher, **Photogrammetric survey of Fragokastello Castle Archaeological site using Unmanned Aerial Vehicles**, 2015.
- P.I., European Space Agency, Project No: 11655, **Monitoring ground subsidence due to ground and underground mining activities in northern Greece**, 2012.
- Helmholtz-Centre Potsdam - GFZ German Research Centre for Geosciences, **Bilateral Educational Exchange Program Greece-Germany**, 2014.
- FP7-REGPOT-2008-1 Project No: 229885 **“SOFIA: Enhancement of Crete's potential for a dedicated calibration facility for satellite radar altimeters and for tectonic deformation monitoring using continuously operating geodetic arrays”**, 2008-2014, Technical University of Crete, Laboratory of Geodesy and Geomatics Engineering.
- FP7, **Early Recognition, Monitoring, and Integrated Management of Emerging, New Technology related Risks**, iNTeg-Risk, Project coordinator: European Virtual Institute for Integrated Risk Management EEIG (EU-VRi), 2008-2013, Total project budget: ~19.3 million €.

- “Cooperation 2011” project ISTRIA (11_SYN_9_13989), **Development of an integrated system for the identification of rock falls on motorways**, funded from the Operational Program “Competitiveness and Entrepreneurship” (co-funded by the European Regional Development Fund (ERDF)) and managed by the Greek General Secretariat for Research and Technology, 2012-2015.
- P.I. - Coordinator, **Spatiotemporal Queries by Sketch in Moving Object Geodatabases**, Technical University of Crete, 2010, Support on Basic research.
- **Anthropogenic Intervention assessment in Greek coastal regions**, co-funded by the European Social Fund and National Resources - (EPEAEK II) ARXIMHDHS.
- **Digital Government on Knowledge Management Over Time-Varying Geospatial Datasets** sponsored by National Science Foundation (NSF).
- **Geospatial Database-Driven Extraction of Information from Digital Aerial Imagery**, sponsored by NSF.

SELECTED PUBLICATIONS

Journals

- Partsinevelos P, Petrakis G, Antonopoulos A, Fotakis T, Bikos S, Charokopos Z, Tripolitsiotis A. Aerial geodetic total station platform for precise active positioning in GNSS-degraded environments. *Automation in Construction*, Elsevier. accepted: 21 November **2024**, (IF: **10.3**, 20% acceptance rate).
- Michail, Anna; Livera, Andreas; Tziolis, Georgios; Candás, Juan Luis Carús; Fernandez, Alberto; Yudego, Elena Antuña; Martínez, Diego Fernández; Antonopoulos, Angelos; Tripolitsiotis, Achilles; Partsinevelos, Panagiotis; A comprehensive review of unmanned aerial vehicle-based approaches to support photovoltaic plant diagnosis, *Heliyon*, 2024, Elsevier.
- Petrakis G, Partsinevelos P. Keypoint Detection and Description through Deep Learning in Unstructured Environments. *Robotics*, MDPI. **2023**; 12(5):137.
- Petrakis, Georgios; Antonopoulos, Angelos; Tripolitsiotis, Achilles; Trigkakis, Dimitris; Partsinevelos, Panagiotis; Precision mapping through the stereo vision and geometric transformations in unknown environments, *Earth Science Informatics*, 1-17, **2023**, Springer Berlin Heidelberg.
- Andriopoulou, Nafsika C; Petrakis, Georgios; Partsinevelos, Panagiotis; Twenty thousand leagues under plant biominerals: a deep learning implementation for automatic phytolith classification, *Earth Science Informatics*, 16,2,1551-1562, **2023**, Springer Berlin Heidelberg Berlin.
- Chatziparaschis, Dimitrios; Partsinevelos, Panagiotis; Real-time unmanned aerial vehicle surveying using spatial criteria: a simulated study, *Journal of Applied Remote Sensing*, 17,1,014519-014519, **2023**, SPIE, Society of Photo-Optical Instrumentation Engineers.
- Georgios Petrakis, Panagiotis Partsinevelos. Lunar Ground Segmentation Using a Modified U-Net Neural Network, 25 September **2023**, PREPRINT (Version 1 under review) available at Research Square [<https://doi.org/10.21203/rs.3.rs-3363458/v1>], *Machine Vision and Applications*, Springer (under review).
- Antonopoulos, Angelos; Lagoudakis, Michail G; Partsinevelos, Panagiotis; "A ROS Multi-Tier UAV Localization Module Based on GNSS, Inertial and Visual-Depth Data", *Drones*,6,6,135,2022,MDPI.
- Batsis, G., Partsinevelos, P., Stavrakakis, G., A deep learning and GIS approach for the optimal positioning of wave energy converters, *Energies*, 2021, 14(20), 6773.
- Partsinevelos, Panagiotis; Su, Hongbo; ,Special Section Guest Editorial: Unmanned Systems and Satellites: a Synergy for Added-value Possibilities, *Journal of Applied Remote Sensing*, 22201, 1, 2022, Society of Photo-Optical Instrumentation Engineers,
- Koutroulis, E., Petrakis, G., Agou, V., ... Partsinevelos...Kokolakis, K., Mertikas, S., Site selection and system sizing of desalination plants powered with renewable energy sources based on a web-GIS platform, *International Journal of Energy Sector Management*, 2021.
- Chatziparaschis, Dimitrios; Lagoudakis, Michail G; Partsinevelos, Panagiotis; Aerial and Ground Robot Collaboration for Autonomous Mapping in Search and Rescue Missions, *Drones*, 4,4,79, 2020, Multidisciplinary Digital Publishing Institute.

- Petrakis, George; Tripolitsiotis, Achilles; Koutroulis, Eftichios; Hristopoulos, Dionissios; Halouani, Nabila; Naceur, Arij Ben; Partsinevelos, Panagiotis; Geo-informatics for optimal design of desalination plants using renewable energy sources: the DES2iRES platform paradigm, *Arabian Journal of Geosciences*, 13,19,1-11, 2020, Springer International Publishing.
- Mertikas, S., Partsinevelos, P., Tripolitsiotis, A., Kokolakis, C., Petrakis, G., Frantzis, X. Validation of Sentinel-3 OLCI integrated water vapor products using regional GNSS measurements in Crete, Greece, (2020) *Remote Sensing*, 12 (16), art. no. 2606, DOI: 10.3390/RS12162606.
- Trigkakis, D., Petrakis, G., Tripolitsiotis, A., Partsinevelos, P., Automated Geolocation in Urban Environments Using a Simple Camera-Equipped Unmanned Aerial Vehicle: A Rapid Mapping Surveying Alternative?, (2020) *ISPRS International Journal of Geo-Information*, 9 (7), art. no. 425, DOI: 10.3390/ijgi9070425.
- Partsinevelos P, Chatziparaschis D, Trigkakis D, Tripolitsiotis A. (2020) A Novel UAV-Assisted Positioning System for GNSS-Denied Environments. *Remote Sensing*; 12(7):1080.
- Panagiotis Partsinevelos, Zach Agioutantis, Achilleas Tripolitsiotis, Nathaniel Schaefer (2017). A Review of Unmanned Aerial Vehicles, Citizen Science, and Interferometry Remote Sensing in Landslide Hazards: Applications in Transportation Routes and Mining Environment. In: G.P. Petropoulos and T. Islam (eds) *Remote Sensing of Hydrometeorological Hazards*, CRC Press, Taylor and Francis, 2017, p. 549.
- Mouslopoulou, V., Begg, J., Füllung, A., Moraetis, D., Partsinevelos, P., Oncken, O. Distinct phases of eustatic and tectonic forcing for late Quaternary landscape evolution in southwest Crete, Greece, (2017) *Earth Surface Dynamics*, 5 (3), pp. 511-527.
- Papadogiorgaki, M., Partsinevelos, P., Adaptive DTM generalization methods for tangible GIS applications (2017) *Earth Science Informatics*, pp. 1-12.
- Tripolitsiotis, A., Prokas, N., Kyristis, S., Dollas, A., Papaefstathiou, I., Partsinevelos, P. Dronesourcing: a modular, expandable multi-sensor UAV platform for combined, real-time environmental monitoring (2017) *International Journal of Remote Sensing*, 38 (8-10), pp. 2757-2770.
- Kalogerakis, N., Karkanorachaki, K., Kalogerakis, G.C., Triantafyllidi, E.I., Gotsis, A.D., Partsinevelos, P., Fava, F. Microplastics generation: Onset of fragmentation of polyethylene films in marine environment mesocosms (2017) *Frontiers in Marine Science*, 4 (MAR), art. no. 84.
- Partsinevelos P., G. Kritikakis, N. Economou, Z. Agioutantis, A. Tripolitsiotis, S. Mertikas, A. Vafidis, (2016). Integration of seismic and image data processing for rockfall monitoring and early warning along transportation networks, *Natural Hazards*, doi: [10.1007/s11069-016-2462-2](https://doi.org/10.1007/s11069-016-2462-2).
- Kyristis, S., Antonopoulos, A., Chanielakis, T., Stefanakis, E., Linardos, C., Tripolitsiotis, A., & Partsinevelos, P. (2016). Towards autonomous modular UAV missions: The detection, geo-location and landing paradigm. *Sensors (Switzerland)*, 16(11) doi:10.3390/s16111844.
- Partsinevelos, P., Nikolakaki N., Psillakis, P, Miliareisis, G, Xanthakis, M, (2015), [Landcover change modeling through visualization and classification enhancement of multi-temporal imagery](#), *Global Nest Journal*, Volume 17, Issue 2, 2015, Pages 271-280.
- Tripolitsiotis, A., Chrysanthos Steiakakis, Eirini Papadaki, Zacharias Agioutantis, Stelios Mertikas, Panagiotis Partsinevelos, (2014), [Complementing geotechnical slope stability and land movement analysis using satellite DInSAR](#), *Central European Journal of Geosciences*, Versita, pp. 57-66.
- Roumpos, C., Panagiotis Partsinevelos, Zacharias Agioutantis, Kostas Makantasis, Antigoni Vlachou, (2014), [The optimal location of the distribution point of the belt conveyor system in continuous surface mining operations](#), *Simulation Modelling Practice and Theory*, Elsevier, pp. 19-27.
- Partsinevelos P., Papadakis, K., and Makantasis, K., (2013), [Spatiotemporal graph queries on geographic databases under a conceptual abstraction scale](#), *Geo-spatial Information Science*, Taylor and Francis.

- Mitraka Z., N. Chrysoulakis, Y. Kamarianakis, P. Partsinevelos and A. Tsouchlaraki, (2012), [Improving the estimation of urban surface emissivity based on sub-pixel classification of high resolution satellite imagery](#), Remote Sensing of the Environment Remote Sensing of Environment (2012), pp. 125-134, doi: 10.1016/j.rse.2011.06.025.
- Partsinevelos P., E. Th. Stamboliadis, and K. Makantasis, (2012), [Image based mineral liberation simulation incorporating experimental grinding models](#), Canadian Metallurgical Quarterly, Maney Publishing, doi: 10.1179/1879139512Y.0000000025.
- Petropoulos, G., Partsinevelos, P., Mitraka, Z., (2012), [Change detection of surface mining activity and reclamation based on a machine learning approach of multi-temporal Landsat TM imagery](#), Geocarto International.
- Mertikas, S. P., A. Daskalakis, I. N. Tziavos, O. B. Andersen, G. Vergos, A. Tripolitsiotis, V. Zervakis, X. Frantzis, P. Partsinevelos (2012). [Altimetry, Bathymetry and Geoid variations at the Gavdos permanent Cal/Val Facility](#), Advances in Space Research, Elsevier, <http://dx.doi.org/10.1016/j.asr.2012.10.02>.
- Mertikas S. P., A. Daskalakis, I. N. Tziavos, G. S. Vergos, X. Frantzis, A. Tripolitsiotis, P. Partsinevelos, D. Andrikopoulos & V. Zervakis (2011), [Ascending and Descending Passes for the Determination of the Altimeter Bias of Jason Satellites using the Gavdos Facility](#), Marine Geodesy, 34:3-4, 261-276, doi: 10.1080/01490419.2011.584837.
- Partsinevelos P., (2011), [Registering randomly oriented scenes through moving object attributes](#), International Journal of Geographical Information Science, 25:11, 1793-1807, doi: 10.1080/13658816.2011.552064.
- Mertikas, S.P., R. T. Ioannides, I. N. Tziavos, G. S. Vergos, W. Hausleitner, X. Frantzis, A. Tripolitsiotis, P. Partsinevelos, D. Andrikopoulos (2010), Statistical Models and Latest [Results in the Determination of the Absolute Bias for the Radar Altimeters of Jason Satellites using the Gavdos facility](#). Marine Geodesy, 33: 1, 114-149, doi: 10.1080/01490419.2010.488973.
- Miliareisis G., P. Partsinevelos, (2010), [Terrain Segmentation of Egypt from Multi-temporal Night LST Imagery and Elevation Data](#), in Remote Sensing Journal, 2, 2083-2096 p.,doi:10.3390/rs2092083.
- Partsinevelos P. & N. Tryfona, "[Handling High-level Queries in Location-based Services for User Groups](#)", in Geoinformatica Journal, vol. 10, no 2, pp. 213-234(22), Springer, 2006.
- Partsinevelos, P. (2008), [Multi-Modal Comparison of Object Trajectories](#)", in Journal of Spatial Sciences, 2008.
- Partsinevelos P., P. Agouris & A. Stefanidis, "[Reconstructing Spatiotemporal Trajectories from Sparse Data](#)", in Journal of Photogrammetry and Remote Sensing (PE&RS), vol. 60, no 1, pp. 3-16 (14), Elsevier Science, 2005.

Books/Chapters/Editorial volumes

- Mertikas, Stelios P; Partsinevelos, Panagiotis; Mavrocordatos, Constantine; Maximenko, Nikolai A; Environmental applications of remote sensing, Pollution Assessment for Sustainable Practices in Applied Sciences and Engineering,107-163, 2021, Butterworth-Heinemann
- Partsinevelos, P., Kyriakidis, P., and Kavouras, M., Eds., (2021): Proceedings of the 24th AGILE Conference on Geographic Information Science, AGILE: GIScience Series; Openaccess proceedings of the Association of Geographic Information Laboratories in Europe, Copernicus Publications, 2.
- Partsinevelos, P., Kyriakidis, P., and Kavouras, M., Eds., (2020): Proceedings of the 23rd AGILE Conference on Geographic Information Science, AGILE: GIScience Series; Openaccess proceedings of the Association of Geographic Information Laboratories in Europe, Copernicus Publications, 1, 1, <https://doi.org/10.5194/agile-giss-1-1-2020>.

National Publications

- In Greek: Παναγιώτης Παρτσινέβελος, Άνωθεν λύσεις και προβληματισμοί: Μη επανδρωμένα και δορυφορικά συστήματα παρακολούθησης του περιβάλλοντος, Περιβαλλοντικές προκλήσεις στον 21^ο αιώνα, Εκδόσεις Σακκουλα, 2020.

International Conferences

- Zormpas, A., Moirogiorgou, K., Kalaitzakis, K., Plokamakis, G.A., Partsinevelos, P., Giakos, G., Zervakis, M., Power transmission lines inspection using properly equipped Unmanned Aerial Vehicle (UAV), (2018) IST 2018 - IEEE International Conference on Imaging Systems and Techniques, Proceedings, art. no. 8577142.
- Stefanidis A., P. Partsinevelos, P. Agouris & P. Doucette "[Summarizing Video Datasets in the Spatiotemporal Domain](#)", Proceedings DEXA 2000, Advanced Spatial Data Management Workshop (ASDM) 2000, IEEE Press London, UK, 2000.
- Partsinevelos P., P. Agouris & A. Stefanidis "[Modeling Movement Relations in Dynamic Urban Scenes](#)", International Archives of Photogrammetry & Remote Sensing, Vol. XXXIII, Amsterdam, 2000.
- Stefanidis A., P. Partsinevelos & P. Agouris "[Using Lifelines for Spatiotemporal Summaries](#)", DG.O 2001 Proceedings, National Conference on Digital Government Research, Los Angeles, CA, 2001.
- Stefanidis A., P. Partsinevelos, K. Eickhorst & P. Agouris "[Spatiotemporal Lifelines in Support of Video Queries](#)", Proceedings DEXA Workshop 2001, Query Processing and Multimedia Issues in Distributed Systems (QPMIDS), Munich, 2001.
- Partsinevelos P., A. Stefanidis & P. Agouris "[Automated Spatiotemporal Scaling for Video Generalization](#)", IEEE-ICIP 2001, Thessaloniki, Greece, 2001.
- Stefanidis A., P. Agouris, P. Partsinevelos "[Summarizing the content of motion imagery datasets](#)", International Archives of Photogrammetry & Remote Sensing, Corfu, Greece, 2002.
- Stefanidis A., P. Agouris, P. Partsinevelos "[Spatiotemporal Helixes for Event Modeling](#)", DG.O 2002 Proceedings, National Conference on Digital Government Research, Los Angeles, CA, 2002.
- Stefanidis A., K. Eickhorst, P. Agouris & P. Partsinevelos "[Modeling and Comparing Change using Spatiotemporal Helixes](#)", ACM-GIS, ACM Press, pp. 86-93, New Orleans, LA, 2003.
- Agouris P., P. Partsinevelos & A. Stefanidis "[Differentiating and modeling multiple moving objects in motion imagery datasets](#)", International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Vol. XXXIV-5/W10, Engadin, Switzerland, 2003.
- Kiousopoulos J., P. Partsinevelos, M. Pigaki, N. Tsiougou & I. Veizi, (2008), "[Anthropogenetic Intensity Indicator; Measuring Human Impact Along Coastal Areas](#)", in Inter. Conf. Studying, Modeling and Sense Making of Planet Earth, Mytilene, Lesvos, Greece, 1 – 6 June, 2008.
- Mertikas, S. P. , R. Ioannides, X. Frantzis, A. Tripolitsiotis, P. Partsinevelos, I. N. Tziavos, G. S. Vergos, W. Hausleitner (2009), "[Recent Developments for the estimation of the altimeter bias for the Jason-1&2 satellites using the dedicated calibration site at Gavdos](#)", Proceedings of SPIE, Remote Sensing of the Ocean, Sea Ice, and Land Water Regions 2009, 31 Aug, 2009, Berlin, Germany, Vol. 7473, 74730C-1.
- Partsinevelos P. & G. Miliareisis (2009), "[Spatiotemporal filtering of multi-temporal images: application on MODIS sea surface temperature \(SST\) imagery](#)", 5th International Workshop on the Analysis of Multi-temporal Remote Sensing Images, Groton, CT, 2009.
- Partsinevelos P., "[Orientation independent scene registration through multiple moving object topology](#)", 5th International Workshop on the Analysis of Multi-temporal Remote Sensing Images, Groton, CT, 2009.
- Mertikas, S. P., A. Daskalakis, W. Hausleitner, I.N. Tziavos, G.S. Vergos, V. Zervakis, P. Partsinevelos, X. Frantzis, D. Andrikopoulos, A. Tripolitsiotis (2010). [Calibration of satellite radar altimeters at Gavdos Cal/Val facility using three different methodologies](#), Proceedings of

European Space Agency Living Planet 2010, Bergen, Norway, 28 Jun–2 Jul, 2010, doi: 10.1117/12.865991.

- Mertikas S. P., A. Daskalakis, V. Tserolas, W. Hausleitner, I. N. Tziavos; G. S. Vergos, V. Zervakis, X. Frantzis, A. Tripolitsiotis, P. Partsinevelos, D. Andrikopoulos (2010). [Absolute calibration of Jason satellite radar altimeters at Gavdos Cal/Val facility using independent techniques](#). SPIE Symposium on Remote Sensing, Paper Number: 7825-12, "Remote Sensing of the Ocean, Sea Ice, and Large Water Regions 2010", Toulouse, France.
- Agadakos, Y., Makantasis, K., Partsinevelos, P., Papadakis, G., Doulamis, A., (2013) [Safe Urban Growth: An Integrated ICT Solution for Unstandardized and Distributed Information Handling](#), International Workshop on Smart City and Ubiquitous Computing Applications - June 4th, 2013.
- Partsinevelos P. & N. Tryfona "Abstract Level Queries in Location-Based Services", Technical Report No. TR2004/11/03, Research Academic Computer Technology Institute, November 2004.
- Partsinevelos P., D. Pfoser & N. Tryfona "[The Space and Time Ontology in Location-based Services](#)", Technical Report No. TR2004/06/03, Research Academic Computer Technology Institute, June 2004.
- Veizi I., N. Tsiougou, C. Kouki, D. Matsa, G. Tsiougos, N. Lakafosis, M. Zarras, G. Miliareisis, P. Partsinevelos, M. Pigaki, (2007), "**Anthropogenetic intensity, a new indicator to measure coastal man-made volume, case study: Navpaktos -Aetolia-Acarnania, Greece**", Future Perspectives of GeoInformation for Integrated Coastal Management, GISIG/ICCOPS/ECOImagine, Genoa, 21-23 November, 2007.
- Mertikas, S. P. , R. Ioannides, X. Frantzis, P. Partsinevelos, A. Tripolitsiotis (2009), "**Determination of the Jason altimeter bias using the Gavdos calibration site**", 3rd Coastal Altimetry Workshop, Frascati, Italy, 17-18 September.
- Mertikas, S. P. , R. Ioannides, A. Tripolitsiotis, X. Frantzis, P. Partsinevelos (2009), "**Recent Developments in the Gavdos calibration site**", Cryosat-2 and ICESAT Meeting, Reykjavik, Iceland, 23-26 June, 2009, Oral Presentation.
- Mertikas, S. P. , R. Ioannides, X. Frantzis, P. Partsinevelos, A. Tripolitsiotis (2009), "**Recent Results for the Estimation of the Altimeter Bias For the Jason satellites Using Gavdos**", Ocean Surface Topography Science Team Meeting, Seattle, Washington, USA, 22-24 June, 2009, Poster and Oral Presentation.
- Eirini Papadaki; Achilleas Tripolitsiotis; Chrysanthos Steiakakis; Zacharias Agioutantis; Stelios Mertikas, Panagiotis Partsinevelos, Pavlos Schilizzi, (2013), [Land movement monitoring at the Mavropigi lignite mine using spaceborne D-InSAR](#) ", Proc. SPIE 8795, First International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2013), 87951A (August 5, 2013); doi:10.1117/12.2027100; <http://dx.doi.org/10.1117/12.2027100>.
- Partsinevelos Panagiotis, Ioannis Agadakos, Nikolas Pattakos, and Michail Maragakis, 2014, "[Towards a gestural 3D interaction for tangible and three-dimensional GIS visualizations](#)", EGU General Assembly Conference 2014.
- Partsinevelos Panagiotis, Natassa Nikolakaki, Periklis Psillakis, George Miliareisis, and Michail Xanthakis, (2014), "[Reducing uncertainty on satellite image classification through spatiotemporal reasoning](#)", EGU General Assembly Conference 2014.
- Partsinevelos Panagiotis and Maria Papadogiorgaki, (2014), [Digital terrain model generalization incorporating scale, semantic and cognitive constraints](#), EGU General Assembly Conference 2014 (Accepted-Presented).
- Partsinevelos Panagiotis, Ioannis Agadakos, Vasilis Athanasiou, Ioannis Papaefstathiou, Stylianos Mertikas, Sarantis Kyritsis, Achilles Tripolitsiotis, and Panagiotis Zervos (2014), [On-board computational efficiency in real time UAV embedded terrain reconstruction](#), EGU General Assembly Conference 2014.

- Partsinevelos Panagiotis and Manolis Perakakis, (2014). [A neuromorphic approach to satellite image understanding](#), EGU General Assembly Conference 2014 (Accepted-Presented).
- Partsinevelos Panagiotis, Stylianos Mertikas, Zachos Agioutantis, V. Tsioukas, Achilles Tripolitsiotis, and Panagiotis Zervos (2014), [Rockfall detection along road networks using close range photogrammetry](#), 2nd International Conference on Remote Sensing and Geoinformation of Environment, 7-10 April 2014, Paphos, Cyprus.
- Partsinevelos P., A. Tzes, S. Manesis, I. Agadakos and A. Tripolitsiotis, (2014), [Architecture of a tangible 3-D forming table for interactive spatial decision support systems](#), 2nd International Conference on Remote Sensing and Geoinformation of Environment, 7-10 April 2014, Paphos, Cyprus.
- Partsinevelos P., I. Agadakos, N. Agadakos, S. Kyritsis, M. Perakakis, V. Athanasiou, (2014). [UAV Positional Synergy using Wifi RSSI](#), 2nd International Conference on Remote Sensing and Geoinformation of Environment, 7-10 April 2014, Paphos, Cyprus.
- Partsinevelos P. and G. Miliareisis, (2014). [Ship extraction and categorization from ASTER imagery](#), 2nd International Conference on Remote Sensing and Geoinformation of Environment, 7-10 April 2014, Paphos, Cyprus.
- Kovaivos, G. Andrikopoulos, I. Arvanitakis, O. Tsilomitrou, A. Tripolitsiotis, P. Partsinevelos, S. Manesis, A. Tzes, (2014). [Implementation and control of a robotic platform for a 3-dimensional geographic information system](#), SafeRhodes 2014 National Conference, (in Greek).
- Panagiotis Partsinevelos, Nikolaos Skoutelis, Achilleas Tripolitsiotis, Stelios Tsatsarounos, Anna Tsitonaki, Panagiotis Zervos, (2015). [Mapping of traditional settlements by unmanned airborne vehicles towards architectural restoration](#), Third International Conference on Remote Sensing and Geoinformation of the Environment, International Society for Optics and Photonics.
- Panagiotis Partsinevelos, Kostas Papadakis, (2015). [Spatially constrained clustering over GIS generated suitability maps](#), Third International Conference on Remote Sensing and Geoinformation of the Environment, International Society for Optics and Photonics.
- Panagiotis Partsinevelos, Christina Kallimani, Achilleas Tripolitsiotis, (2015). [Multi-temporal change image inference towards false alarms reduction for an operational photogrammetric rockfall detection system](#), Third International Conference on Remote Sensing and Geoinformation of the Environment, International Society for Optics and Photonics.
- Achilleas Tripolitsiotis, Antonis Daskalakis, Stelios Mertikas, Dionysios Hristopoulos, Zach Agioutantis, Panagiotis Partsinevelos, (2015). [Detection of small-scale rockfall incidents using their seismic signature](#), Third International Conference on Remote Sensing and Geoinformation of the Environment, International Society for Optics and Photonics.
- Panagiotis Partsinevelos, Mary Sartzetaki, Apostolos Sarris, (2015). [Spatiotemporal conceptual platform for querying archaeological information systems](#), EGU General Assembly Conference Abstracts, Vol. 17.
- Panagiotis Partsinevelos, Zacharias Agioutantis, Achilles Tripolitsiotis, Chrysanthos Steiakakis, Stelios Mertikas, (2015). [Harvesting rockfall hazard evaluation parameters from Google Earth Street View](#), EGU General Assembly Conference Abstracts, Vol. 17.
- Dimitris Trigkakis, Andreas Pitsiladis, Achilles Tripolitsiotis, Periklis Psillakis, Panagiotis Partsinevelos, (2015). [Graphical queries on an open-source Web-GIS](#), International Conference SafeChania, June 2015.
- Sarantis Kyritsis, Stathis Bikos, Stelios Tsatsarounos, Aggelos Antonopoulos, Panagiotis Partsinevelos, (2015). [Gestural navigation of the "TUC" Unmanned Aerial Vehicle](#), International Conference SafeChania, June 2015.
- Sarantis Kyritsis & Panagiotis Partsinevelos, (2015). [Tangible, dynamic, real time geomorphology representation using sand forms](#), International Conference SafeChania, June 2015.

- Panagiotis Partsinevelos, Sarantis Kyritsis, Manolis Mylonakis, Michail Maraggakis, Achilles Tripolitsiotis, (2015). [A GIS interface in three-dimensional space](#), International Conference SafeChania, June 2015.
- S.N. Kamenopoulos, Z. Agioutantis, K. Komnitsas & P. Partsinevelos, (2015). [A New Tool for Geopolitical Assessment of REE Projects](#), SDIMI Conference of Sustainable Development in the Minerals Industry, 13 July, 2015, University of British Columbia, Vancouver, BC, Canada.
- Economou, N., Kritikakis, G., Tripolitsiotis, A., Partsinevelos, P., Vlachou, G., Agioutantis, Z., Vafidis, A., [Seismic monitoring for automatic rockfall detection along transportation corridor](#), 8th Congress of the Balkan Geophysical Society, BGS 2015, Chania, Greece, 5-8 October 2015.
- Zach Agioutantis, Joe Robertson, Greg Gollaher, Nathaniel Schaefer, Jhon Silva, Achilleas Tripolitsiotis, Panagiotis Partsinevelos, Permanent scatterer radar interferometry as an effective structure deformation monitoring tool over undermined areas, 2019, Seventh International Conference on Remote Sensing and Geoinformation of the Environment, Cyprus (RSCy2019), International Society for Optics and Photonics
- GP Petropoulos, V Anagnostopoulos, D Hristopulos, P Partsinevelos, 2019, An open source land biosphere extended for use with EO data for deriving spatiotemporally key biophysical parameters, Geophysical Research Abstracts, EGU 2019, Vienna.
- A Tripolitsiotis, G Petrakis, D Hristopulos, N Halouani, E Koutroulis, A.B. Naceur, P. Partsinevelos, 2019. DES2iRES: A web-GIS platform to support public authorities and investors in strategic planning of desalination plants powered by renewable energy sources, Geophysical Research Abstracts, EGU 2019, Vienna.
- NC Andriopoulou, D Michailidis, GE Christidis, P Partsinevelos, 2019, 3D representation of biominerals integrating microscopy and photogrammetry: implications in geoarchaeology, 2019, Geophysical Research Abstracts, EGU 2019, Vienna.
- P Partsinevelos, S Simou, 2019. Detection of geometric deformations on maritime technical structures through Unmanned Aerial Systems, 2019, Geophysical Research Abstracts, EGU 2019, Vienna.
- E Koutroulis, G Petrakis, D Hristopulos, A Tripolitsiotis, N Halouani, ..., P. Partsinevelos, 2018, Geo-Informatics for Optimal Design of Desalination Plants Using Renewable Energy Sources: The DESiRES platform paradigm, (2019) Advances in Science, Technology and Innovation, pp. 53-55.
- Georgios Batsis, Georgios Petrakis, Georgios Stavrakakis, Panagiotis Partsinevelos, Optimal positioning of wave energy converters using deep learning and GIS, AGILE 2021, 24th AGILE Conference on Geographic Information Science, Virtual, Poster presentation.
- Antonopoulos Angelos, Charokopos Zisis, Fotakis Tzani, Partsinevelos Panagiotis, Design and implementation of a UAS localization and geolocation module, AGILE 2021, 24th AGILE Conference on Geographic Information Science, Virtual, Poster presentation.
- Nafsika C. Andriopoulou and Panagiotis Partsinevelos, Digital surface reconstruction of biominerals under a quantitative perspective: implications in the taxonomy and preservation of archaeomalacological material, Conference: On shifting grounds - the study of archaeological practices in a changing world, 3-5 Oct. 2019, Rethymnon, Crete, Greece.
- Dimitrios Trigkakis, Dimitris Chatziparaschis, George Petrakis, Achilles Tripolitsiotis and Panagiotis Partsinevelos, A Monocular SLAM Method for Point Cloud Geolocation in GPS-Denied Environments using UASs, The 22nd AGILE International Conference on Geographic Information Science, Geographic Information Representation, Retrieval and Visualization, 2019, Limassol, Cyprus.
- Nafsika C. Andriopoulou, Georgios Petrakis and Panagiotis Partsinevelos, Phytolith classification using deep learning: implementation of a U-Net neural network for morphotype image-segmentation, International Conference (virtual) "12th International Meeting for Phytolith

Research”, 6-11 Sept. 2021, Kiel, Germany, in the frame of the 27th annual meeting of the European Association of Archaeologists (EAA).

- Nafsika C. Andriopoulou and Panagiotis Partsinevelos, Photogrammetry for cultural heritage: digital surface reconstruction of molluscan exoskeletons from Eastern Mediterranean, EUROMED International Conference (virtual) on Digital Heritage, 2-5 Nov. 2020, Cyprus.
- Mertikas, S.P., Daskalakis, A., Koutroulis, Ef., Tripolitsiotis, A., Partsinevelos, P., Preparatory works for the altimeter calibration of the Sentinel-3 mission using the dedicated calibration site in Crete and Gavdos (2011) Proceedings of SPIE - The International Society for Optical Engineering, 8175, art. no. 1.
- Syranidou, E., Kalogerakis, G.C., Karkanorachaki, K., Gotsis, A.D., Partsinevelos, P., Kalogerakis, N., Fragmentation and biodegradation rates of weathered plastics in the marine environment - The new challenges (2017) 40th AMOP Technical Seminar on Environmental Contamination and Response, pp. 364-380.
- Economou, N., Kritikakis, G., Tripolitsiotis, A., Partsinevelos, P., Vlachou, G., Agioutantis, Z., Vafidis, A., Seismic monitoring for automatic rockfall detection along transportation corridor (2015) 8th Congress of the Balkan Geophysical Society, BGS 2015.

ACADEMIC ACTIVITIES

Dissertations

Dipl. Eng. Thesis: P. Partsinevelos “**Adjustment of mathematical surface models in real surfaces.- Application in parabolic antennas**”, National technical University of Athens, Athens, Greece.

Doctorate Thesis: P. Partsinevelos “[Detection and generalization of spatio-temporal trajectories for motion imagery](#)”, University of Maine, Orono, USA.

Teaching

I. Technical University of Crete, School of Mineral Resources Engineering

Graduate Courses

- Unmanned Systems and Space Technologies (2018-2020),
- Geotechnologies and Geographic Information Systems (2008-2015),
- Spatial Information Systems (2016-current),
- Special Topics on Computational Analysis in Geosciences (2015-current),
- Remote Sensing of the Environment (2008-2015),
- Remote Sensing and Digital Image Processing (2016-current),
- Detection and identification of mineral resources (2014),
- Methodology in Scientific Research, (2015-2017)

Undergraduate Courses

- Remote Sensing of the Environment (2009-current),
- Introduction in Computer Systems for Mineral Resources Engineers (2008-2016),
- Technical Geodesy, (2011-12, 2013-14, 2014-15),
- Technical Drawing, (2015-16, co-instructor),
- Special Topics in Remote Sensing, (2006-2008),

II. Technical University of Crete, School of Architecture

- Undergraduate: Topography – Surveying, (2015-2018),
- Graduate: Modern methodologies for mapping historical monuments (2016-current), School of Architecture, Technical University of Crete,

III. Aristotle University of Thessaloniki, Lifelong Studies

- Marine structures, Interdepartmental (co-instructor), (2014),

IV. Technical Educational Institute of Athens

- Special topics in Remote Sensing, Undergraduate, (2006-08),

V. University of Maine

Graduate Teaching Assistant

- Digital and Analytical Photogrammetry,

Editorial work

Editorial Board Member: Journal of Applied Remote Sensing JARS, SPIE, the international society for optics and photonics, USA.

Lead guest Editor, Special Issue "**Unmanned Aerial Systems and Geoinformatics**", A special issue of *ISPRS International Journal of Geo-Information* (ISSN 2220-9964).

Lead guest Editor, Special Issue "**Unmanned Systems and Satellites: A Synergy for Added-Value Possibilities**" (April-June 2022). Journal of Applied Remote Sensing, the international society for optics and photonics, USA. Guest Editors: Panagiotis Partinevelos and Hongbo Su

Editorial Board Member: *Informatics* (ISSN 2227-9709), Remote Sensing, MDPI

Editor, scientific chair, Copernicus Publications, AGILE 2021,

Editor, scientific chair, Copernicus Publications, AGILE 2020.

Refereeing

- **ACM** Geographic Information Systems International Conference, ACM,
- & **Geoinformatica** Journal, Springer,
- Sensors Journal, MDPI,
- Environmental Modelling & Software - Journal - Elsevier
- Journal of Electronic Imaging, SPIE,
- Nonlinear Processes in Geophysics Journal, EGU,
- Computers and Geosciences Journal, Elsevier,
- Journal of Photogrammetry and Remote Sensing, ISPRS,
- Remote Sensing, MDPI,
- Drones, MDPI,
- Robotics, MDPI,
- Aerospace, MDPI,
- International Journal of GeoInformation, ISPRS, MDPI,
- Sustainability, MDPI,
- Sensors, MDPI,
- Hydrology, MDPI,
- Applied Sciences, MDPI,
- Journal of Applied Remote Sensing, SPIE,
- Springer Nature, Computer Science

Conferences

- ISAG 2024, International Symposium of Applied Geoinformatics
- IWEG 2020, International Workshop on Environment and Geoscience
- GISTAM 2020,
- AGILE 2021,
- AGILE 2020,
- Bulletin of the Geological Society of Greece, 13th International Congress, Chania, 2013,
- SafeRhodes 2014, Conference,
- SafeChania 2015, International Conference,
- SafeKozani 2018,
- SafeCorfu 2020,
- SafeGreece 2021.
- International Society for Photogrammetry and remote Sensing, 23rd Congress, Prague, 12-19 July 2016,

Other reviewing functions

- Cooperation EU Projects" Operational Program "Competitiveness and Entrepreneurship", co-funded by the European Regional Development Fund,
- H.F.R.I, Hellenic Foundation for Research and Innovation,
- State Scholarship Foundation,
- NBG Business seeds.

Innovation Projects & Products

- **SandMap**: Interactive Tangible GIS upon sand formations,
- **SmartDrone**: Integration of a smartphone with a mobile UAV,
- **Eye-tracking navigation**: Eye-tracking moving vehicle,
- **Drones2GNSS**: UAV assisted GPS precision enhancement,
- **Message in a Bubble**: Communication through virtual messages,
- **RescueNET**: Collaborative volunteering search and rescue,
- **CybEarth**: Augmented visualization of satellite data on earth scenes,
- **Awear**: Wearable sensors for environmental monitoring,
- **Drones4SAR**: Real time geolocation for SAR,
- **SafAIR**: A citizen platform for air quality information,
- **Vegadrone**: Novel UAV for seeding biodiversity.

Invited Talks & Academic Activities

- Conference Scientific member, AGILE 2022,
- Conference Scientific Chair, AGILE 2021,
- Conference Scientific Chair, AGILE 2020,
- BEST, Board of European Students of Technology, summer school, 2018, "From Space to Drones: a synergy for Earth Observation",
- BEST, Board of European Students of Technology, summer school, 2017, "Drones vs satellites",
- Invited Talk, **Tunisia**, Satellite products on offshore energy, 2018,
- Invited Talk, **Brussels**, MY GEOSS Final Event: Open Data, Open Source, Open Minds", December 2016,
- Invited Talk, Satellite Masters, **Madrid**, October 2016,
- Talk, Copernicus Masters, First Person GIS idea (FPGIS), **Berlin**, October 2015,
- Funded demonstration, **European Space Solutions** meeting, Bringing space to Earth, SenseLAB space Research, 30 May – 03 June 2016, **The Hague**,
- Drone Expo Greece 2016, Invited Demonstration Stand, **Athens**, 2016,
- Invited Demonstration, National Robotics Conference, **Thessaloniki**, 2016,
- Invited Talk, 2nd Business Continuity Conference, Athens, 2016,
- Invited Talk, Infocom Mobile Conference, Athens, 2016,
- Keynote speaker, Open GIS Symposium and Summer School 2015, **Spatial consciousness ... the missing link?**, 20th - 24th July, 2015, **Crete**, Greece,
- **Conference Chair** & Scientific committee Chair: International Conference SafeChania, **New Technologies serving Civil Protection**, **Chania**, Greece, 2015,
- Talk, Cerege, Centre Européen de Recherche et d'Enseignement des Géosciences de l'Environnement, SenseLAB research presentation, France, **Marseille**, 14 September 2015,
- Talk, Copernicus Masters, **First Person GIS idea** (FPGIS), **Berlin**, October 2015,
- Presentation, Anwendungszentrum GmbH Oberpfaffenhofen, DLR, **Adaptive, Augmented Visualization of Spatial Temporal and Spectral EO Data upon Dynamic Mobile Device Views**, Germany, **Munich**, 30 September 2015,
- Invited Talk, Erasmus Theodoropoulos School, **Space in the service of Earth understanding**, November 2015,

- Talk, GFZ, **Geo-cognition discussions: Bridging the gap between geospatial information complexity and human comprehension**, Germany, **Potsdam**, 6 November 2014,
- Organizing Committee: ISPRS Conference, **Integrated Sensor Calibration and Orientation**, Portland ME, USA,

Volunteering Activities & Outreach

- **Smile of a child**, NPO for the protection of children, live tech lab, 2016,
- **Kara Tepe Lesvos hospitality camp** for refugees, live tech lab, 2016,
- **100 mentors** program,
- National demonstration of **AirScouts**, technical demonstration, 2016,
- **Art display** exhibition organizers, jointly with SafeChania Conference, 2015,
- Technical University of Crete **Open day**, 2014-2017,
- Technical University of Crete **Science Day**, 2014-2017,
- **University Volunteering Actions club** organizers, aid social kitchen for citizens,
- International **Erasmus+**, “Breaking the Code: a Pathway to Success”, invited talk and demonstration,
- **TEDx**, Scientific Supervisor, Technical University of Crete, 2017 - 2018,
- **UAV expo**, Athens, 2017,
- **BEST, Board of European Students of Technology**, TUC branch, reviewer, 2016,
- **Erasmus** and **intern** students from France, Poland, Italy, Romania, Portugal,
- Live demonstrations to promote spatial awareness and technology in Geospatial Engineering,
- Interviews and special presentations on National TV (ERT, ANT1, E, Star, DUBAI TV), newspapers (Kathimerini, Proto Thema, Ethnos), websites (GPS World).

Memberships (current or former)

- Board of Directors, Technical University of Crete (2023-current),
- Head of the Technology Transfer Office project, Technical University of Crete (2022-current),
- American Society for Photogrammetry and remote Sensing, (**ASPRS**),
- Institute of Electrical and Electronics Engineers, (**IEEE**),
- European Geosciences Union (**EGU**),
- University of Maine, National Center for Geographic Information and Analysis, (**NCGIA**),
- University of Maine, **NASA** Center of Excellence in Remote Sensing Applications,
- **AGILE**, Association of Geographic Information Laboratories in Europe,
- Technical Chamber of Greece, (**TEE**),
- Technical University of Crete, elected Cashier of the **Unified Faculty member Association** (2019-2022),
- Technical University of Crete, Dept. of Mineral Resources Engineering, **Graduate Studies Committee** member, (2010-current),
- Technical University of Crete, **University’s Research Committee**, School’s representative, (2020-current),
- Technical University of Crete, **School of Mineral Resources Engineering**, Dean’s committee, (2021),
- Technical University of Crete, **University’s Senate**, Department’s representative, (2009-10),
- Technical University of Crete, **Technical Board** member, (2010-2014),
- School of Mineral Resources Engineering, Board member for **Promotion & Outreach** of the School (2017-2019).