

CURRICULUM VITAE

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ADDRESS

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ACADEMIC AND SCIENTIFIC DEGREES

1978-1984: National Technical University of Athens, Faculty of Rural and Surveying Engineering.
1984-1986: D.E.A "Amanagement - Urbanisme - Geographie" University Paris IV.
Courses of D.E.A "Methodes Physiques en Teledetection" University Paris VII.
1987-1990: Ph. D. on Remote Sensing. National Technical University of Athens, Remote Sensing Laboratory.

SCHOLARSHIPS

1987-1990: Scholarship from the Greek Scholarship Foundation

PROFESSIONAL EXPERIENCE

1986: Stage committed in the National Geographic Institute of France "Analysis of Digital Methods for Remote Sensing Applications in Urban Areas"
1990-1992: HITEC S.A Dept. R&D, Research engineer on image processing and GIS projects and applications
1992-1994: PAN-DRIVE S.A. Director of the Cartography Dept., Production of Thematic Cartographic Information used by an autonomous vehicle navigation system.
1994-1999: NTUA, Laboratory of Remote Sensing, associated researcher.
1999-2006: NTUA, Laboratory of Remote Sensing, Lecturer.
2006- 2012: NTUA Laboratory of Remote Sensing, Assistant Professor
2012- 2016: NTUA Laboratory of Remote Sensing, Associate Professor
2017- today: NTUA Laboratory of Remote Sensing, Professor

TEACHING ACTIVITIES

As a Professor of the School of the Rural and Surveying Engineering of the NTUA, teaches the undergraduate courses: Photo-interpretation and Remote Sensing, Special Topics of Photo-interpretation and Remote Sensing, Radiometry and Microwave Remote Sensing, Advanced Remote Sensing Topics, Remote Sensing & Applications, Environment and Development (Interdisciplinary NTUA course), and participates in the teaching of the postgraduate courses: Remote Sensing of Environment (MSc Program in Environment and Development), Advanced Remote Sensing Methods (MSc Program in Mathematical Modelling in Modern Technologies and Finance), Remote Sensing of Coastal and Marine Environment (MSc Program in Naval and Marine Technology & Science Remote Sensing methods for Earth observation).

2006- today: Supervisor of more than 35 undergraduate, 5 master theses and 8 PhD theses (4 of them completed).

INTERNATIONAL RECOGNITION

Reviewer in several international scientific journals such as, Computers in Industry, International Journal of Remote Sensing, Journal of Environmental Management, Canadian Journal of Remote Sensing IET Image Processing, Photogrammetric Engineering and Remote Sensing, ISPRS Journal of Photogrammetry and Remote Sensing, IEEE Geoscience and Remote Sensing Letters, IEEE Transactions on Geoscience and Remote Sensing, Journal of Applied Remote Sensing, Egyptian Journal of Remote Sensing and Space Sciences, International Journal of Geosciences, Environmental Processes Water Resources Management, Chinese Journal of Oceanology and Limnology, etc.

Evaluator for Research Grants of the Chilean country, «2010 FONDECYT National Research Funding Competition», and the General Secretariat for Research and Technology, Ministry of Education and Religious Affairs, Greece, (2011).

Chairwoman in EUSAR 2004, 5rd European Conference on Synthetic Aperture Radar, Ulm, Germany, 25-27 May 2004 (session “Feature Extraction), IGARSS 2008, Geoscience and Remote Sensing the next generation, Boston, USA, 6-11 July 2008 (Session “Land Use/Land Cover Classification III”)

Member of the Scientific Committee of International conferences, such as “International Conference on Remote Sensing and Geo-information of the Environment”, 2013, (<http://www.cyprusremotesensing.com/rscy2013/international-scientifics-committees>),

“International Conference on Remote Sensing and Geo-information of the Environment”, 2014, (<http://www.cyprusremotesensing.com/rscy2014/International-Scientific-Committee>), 1st International Geomatics Applications “GEOMAPPLICA” 2014, (<http://geomappla.prd.uth.gr/the-conference/scientific-committee-2/>), 5th International GEOBIA Conference, 2014 (<http://geobia2014.web.auth.gr/geobia14/scientific-committee>), “International Conference on Remote Sensing and Geo-information of the Environment”, 2015, (<http://www.cyprusremotesensing.com/rscy2015/International-Scientific-Committee>),

“International Conference on Remote Sensing and Geo-information of the Environment”, 2016, (<http://www.cyprusremotesensing.com/rscy2016/International-Scientific-Committee>), Conference on Remote Sensing and Geo-information of the Environment”, 2017, (<http://www.cyprusremotesensing.com/rscy2017/International-Scientific-Committee>), Conference on Remote Sensing and Geo-information of the Environment”, 2018, (<http://www.cyprusremotesensing.com/rscy2018/International-Scientific-Committee>).

Invited as **keynote speaker** at numerous international conferences. The most recent are:

BIT Congress Inc.’ 2nd Annual International Congress of Marine Biotechnology (WCMB-2012), Session 4-4: Bioremediation and Restoration of Oil Spills at Sea, BIT Congress Inc.’ 3rd Annual World Congress of Marine Biotechnology-2013, Session 4-4: Bioremediation and Restoration of Oil Spills at Sea, BIT Life Sciences’ 3rd International Congress of Environment (ICE-2013), Session 2-5 Geographic Information Systems and Remote Sensing Technology, The 1st Annual World Congress of Geophysics (WCG-2014),

The 5th Low Carbon Earth Summit-2015, 13th International Conference on Environment, Ecosystems and Development (EED’15), 6th Annual International Conference of Environment (iCE-2016), The 5th International Conference on Mapping and Remote Sensing (ICMRS 2017), The 6th International Conference on Signal and Image Processing (CSIP 2017) "International Conference on Earth Science & Geo Science" (Earth & Geo Science-2018).

Invited to act as **Guest Editor** for special issues in several journals, such as Journal of Marine Science & Engineering (2018) and SciencePG (2016, 2017).

INSTITUTIONAL RESPONSIBILITIES

1999-today: Faculty member of the School of Rural and Surveying engineering (SRSE), NTUA.

2012-today: Member of NTUA's General Library Senate Committee.

2012-today: Member of the SRSE Committee for the Destruction and Deletion of unused equipment.

2016-today: Representative of the Department of Topography of the SRSE in the Center for the Assessment of Natural Hazards and Proactive Planning.

MEMBERSHIPS OF PROFESSIONAL ASSOCIATIONS

1984- today: Member of the Technical Chamber of Greece

2020-today: Member of Mediterranean Regional Information Network (MedRIN)

RECENT GRANTS

Involved in more than 24 EU and national excellence/competitive research projects as a coordinator, as a principal investigator and as a researcher towards the design, development and validation of state-of-the-art

methodologies and cutting-edge technology in Remote Sensing, Earth Observation and Computer Vision. The most recent relevant projects are:

1. 2020-2021 ESA: OSIP Remote Sensing for Marine Litter-Early Technology Development Scheme, "REACT: cRowdsourcing, copErnicus and hyperspectral Satellite data for mArine litter deteCtion, quanTification and tracking" (For NTUA-RSL: 53.000 Euros)
2. 2019-2022 H2020-LC-CLA-2018-2, "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 (For NTUA-RSL:150.000 Euros)
3. 2019-2021 Cyprus Research Promotion Foundation Programmes: RESTART 2016 – 2020, "ASTARTE: Analysis of SAR and Thermal satellite time-series dAta foR understanding the long-term impact of land surface TEmpérature changes on forests" (For NTUA-RSL:38.000 Euros)
4. 2015-2017 H2020-MSCA-RISE-2015, Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE), "SEO-DWARF, Semantic EO Data Web Alert and Retrieval Framework", Project ID: 691071, (2016 – 2019), Coordinator, (Principal investigator, Scientific responsible for NTUA), (For NTUA-RSL:290.000 Euros).
5. 2018 CalCon Holding GmbH, "Hyper-urban: Analysis of hyperspectral imagery for extracting urban spectral signatures" (For NTUA-RSL: 12.570 Euros)
6. 2017 CalCon Holding GmbH, "Material: Examination of the spectral response of urban ground materials under various conditions" (For NTUA-RSL: 13.190 Euros)
7. 2014-2018 FP7 SEC-2013-1.6-3, "Surveillance of wide zones: from detection to alert – Integration Project (ZONeSEC)".
8. 2013-2015 Operational Program for Educational and Vocational Training II (EPEAEK-II), MIS 377293, co-funded by the European Social Fund (75%) and National Resources (25%), "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", (Principal investigator, Scientific responsible for NTUA) (For NTUA-RSL:150.000 Euros).
9. 2013-2015 Operational Program for Educational and Vocational Training II (EPEAEK-II), MIS 380134, co-funded by the European Social Fund (75%) and National Resources (25%), "UrbanMonitor: "Automatic Detection and Modelling of 2D and 3D Changes in the Urban Environment from Multi-Modal, Multi-Temporal Remote Sensing Data".
10. 2009-2012 CEC FP7-SST-2008-RTD-1, "Automatic Oil-Spill Recognition and Geopositioning integrated in a Marine Monitoring Network (ARGOMARINE)", (Principal investigator, Scientific responsible for NTUA).
11. ESA ALOS Category 1 Project ID 6554, "Integrated use of ALOS optical and radar data for 3D geological mapping", (2010- 2011) (Principal investigator).
12. Program for basic research PEVE- NTUA, "Development of algorithms for endmember extraction and pixel level and linear unmixing", (2009-2011) (Principal investigator).

BOOKS

Reviewer of the Greek version of the book of John R. Jensen: Remote Sensing of the Environment, NTUA University Editions, pp.678, 2015.

K. Koloniatis, V. Andronis, V. Karathanassi, 2020, "Spectral smile correction for airborne imaging spectrometers", Chapter 2 in the book Hyperspectral Remote Sensing. Theory and applications, 2020 Elsevier Ltd., ISBN: 978-0-08-102894-0.

PEER REVIEW PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS

1. Vasileios Sitokonstantinou, Alkiviadis Koukos, Thanassis Drivas, Charalampos Kontoes, Ioannis Papoutsis and Vassilia Karathanassi, 2021, "A Scalable Machine Learning Pipeline for Paddy Rice Classification Using Multi-Temporal Sentinel Data", Remote Sens. 2021, 13, 1769, <https://doi.org/10.3390/rs13091769>
2. Maria Kremezi, Viktoria Kristollari, Vassilia Karathanassi, Konstantinos Topouzelis, Pol Kolokoussis, Nicolò Taggio, Antonello Aiello, Giulio Ceriola, Enrico Barbone and Paolo Corradi, 2021, "**Pansharpening PRISMA Data for Marine Plastic Litter Detection Using Plastic Indexes**", IEEE Access Vol. 9, pp. 61955-61971, Online ISSN: 2169-3536, DOI: 10.1109/ACCESS.2021.3073903
3. Maria Rousi, Vasileios Sitokonstantinou, Georgios Meditskos, Ioannis Papoutsis, Ilias Gialampoukidis, Alkiviadis Koukos, Vassilia Karathanassi, Thanassis Drivas, Stefanos Vrochidis, Charalampos Kontoes, and

- Ioannis Kompatsiaris, 2021, "Semantically enriched crop type classification and Linked Earth Observation Data to support the Common Agricultural Policy monitoring", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Vo. 14, pp. 529-552, DOI: 10.1109/JSTARS.2020.3038152
4. Kremezi M., Karathanassi V., 2020, "Data Fusion for Increasing Monitoring Capabilities of Sentinel Optical Data in Marine Environment", IEEE Journal of Selected Topics In Applied Earth Observations and Remote Sensing, 2020, Vol. 13, pp. 4809 – 4815, DOI: 10.1109/JSTARS.2020.3018050
 5. Karamvasis Kl., Karathanassi V., 2020, "Performance Analysis of Open Source Time Series InSAR Methods for Deformation Monitoring over a Broader Mining Region", Remote Sensing 2020, 12(9), 1380; <https://doi.org/10.3390/rs12091380>
 6. Kristollari V., and Karathanassi V., 2020, "Fine-tuning Self-Organizing Maps for Sentinel-2 imagery: Separating Clouds from Bright Surfaces", Remote Sensing 2020, 12(12), 1923, <https://doi.org/10.3390/rs12121923>
 7. Zotou I., Bellos V., Gkouma A., Karathanassi V., Tsihrintzis V.A., 2020, "Using Sentinel-1 Imagery to Assess Predictive Performance of a Hydraulic Model", Water Resources Management: An International Journal, Published for the European Water Resources Association (EWRA), 2020, vol. 34, issue 14, No 8, 4415-4430, DOI: 10.1007/s11269-020-02592-7
 8. Kristollari V., Karathanassi V., 2020, "Artificial neural networks for cloud masking of Sentinel-2 ocean images with noise and sunglint", International Journal of Remote sensing, 2020, Volume 41, Issue 11, pp.4102-4135, DOI: 10.1080/01431161.2020.1714776
 9. Kampouri M., Kolokoussis P., Argialas D., Karathanassi V, 2018, "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, pp. 1-13, DOI: 10.1080/10106049.2018.1489424
 10. Kolokoussis P. and Karathanassi V., 2018, "Oil Spill Detection and Mapping Using Sentinel 2 Imagery", Journal of Marine Science and Engineer, 6(1), 4, Doi:10.3390/jmse6010004.
 11. Galidaki G., Zianis D., Gitas I., Radoglou K., Karathanassi V., Tsakiri-Strati M., Woodhouse I., Mallinis G., 2017, "Vegetation biomass estimation with remote sensing: focus on forest and other wooded land over the Mediterranean ecosystem", International Journal of Remote Sensing, Vol.38, Issue 7, pp. 1940-1966.
 12. Saqellari-Likoka Arl., Vafeiadi-Bila El., Karathanassi V., 2016, "New parametric model based method for noise reduction in the Interferometric process", International Journal of Remote Sensing & Geosciences (ISSN 2319–3484 (Online)), Vol. 5, Issue 1, January 2016.
 13. Sykas D., Karathanassi V., 2015, "Exploiting the Fractional Distance Matrix for estimating the number of endmembers and extract them" International Journal of Remote Sensing and Geosciences, (ISSN 2319–3484 (Online)), vol. 4, no. 5, pp. 29-38.
 14. Nikolakopoulos K., Choussiafis Chr., and Karathanassi V., 2015, "Assessing the quality of DSM from ALOS optical and radar data for automatic drainage extraction" Earth Science Informatics, 8(2): 293-307, Doi: 10.1007/s12145-014-0199-6.
 15. Karathanassi V., 2014. "Spectral Unmixing Evaluation for Oil Spill Characterization", International Journal of Remote Sensing Applications Volume 4 Issue 1, March 2014, Doi: 10.14355/ijrsa.2014.0401.01.
 16. 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. 6973-6992, Doi: 10.1080/01431161.2014.960620.
 17. Karathanassi V., Saqellari-Likoka Arl., 2014, "Solving Rank-deficient Linear Systems for the Estimation of the Atmospheric Phase Delay Parameter", Universal Journal of Geosciences Vol. 2(2), pp. 35 – 42, Doi: 10.13189/ujg.2014.020201.
 18. Andreou Ch. and Karathanassi V. 2014. "Estimation of the number of endmembers using robust outlier detection method", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Vol. 7, Issue 1, Doi: 10.1109/JSTARS.2013.2260135.
 19. Kolokoussis P., Karathanassi V., 2013. "Detection of Oil Spills and Underwater Natural Oil Outflow Using Multispectral Satellite Imagery", International Journal of Remote Sensing Applications, Vol. 3, Issue 3, (ISSN Online: 2226-4353), Science and Engineering Publishing Company (<http://www.ijrsa.org/paperInfo.aspx?ID=4837>).
 20. Sismanidis P. and Karathanassi V., 2013, "Evaluation of atmospheric correction to airborne hyperspectral data relying on radiative transfer concepts", International Journal of Remote Sensing. Volume 34, Issue 23, pages 8566-8587, Doi: 10.1080/01431161.2013.845926.

21. 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 Technologies, vol. 1, no. 3, pp. 75-83, (ISSN:2330-1775(Online)), Doi: 10.18005/JRST0103003.
22. Daboor M., Collins J. M., Karathanassi V., Braun A., 2013, **"An unsupervised Classification approach for polarimetric SAR data based on the Chernoff distance for complex Wishart distribution"** IEEE Trans. on Geoscience and Remote Sensing, No. 7, 2013, pp. 4200-4213, Doi: 10.1109/TGRS.2012.2227755.
23. Karathanassi V., Sykas D., Topouzelis K., 2012, **"Development of a network based method for unmixing of Hyperspectral data"**, IEEE Trans. on Geoscience and Remote Sensing, Vol 50, Issue 3, pp.839-849, Doi: 10.1109/TGRS.2011.2163412.
24. Parcharidis, I., Kourkouli, P., Karymbalis, E., Fouvelis, M. & Karathanassi, V., 2011, **«Time series SAR interferometry for ground deformation monitoring over a small scale tectonically active deltaic environment (Mornos, Central Greece)»**, Journal of Coastal Research, Vol. 29 Issue 2, pp. 325-338, Doi: 10.2112/JCOASTRES-D-11-00106.1.
25. Petrosyan A.F., Karathanassi V., 2011, **“Review article on Landscape metrics based on Remote Sensing data”**, Journal of Environmental Science and Engineering, 5 (2011) pp. 1542-1560 (ISSN (online): 2311-8741).
26. Daboor M., Karathanassi V., Braun A., 2011, **"A multilevel segmentation methodology for dual-polarized SAR data"** International Journal of Applied Earth Observation and Geoinformation, 13(3), pp. 376-385, DOI: 10.1016/j.jag.2011.01.006.
27. Kolokoussis P., Karathanassi V., Rokos D., Argialas D., Karageorgis Ar. and Georgopoulos D., 2011, **“Integrating Thermal and Hyperspectral Remote Sensing Potentials for the Detection of Coastal Springs and Submarine Groundwater Discharges”**, International Journal of Remote Sensing, 32(23), pp 8231-8251, Doi: 10.1080/01431161.2010.533209.
28. Andreou Ch., Karathanassi V., Kolokoussis P., 2011, **“Investigation of hyperspectral remote sensing for mapping asphalt road conditions”**, International Journal of Remote Sensing, 32(21), pp 6315-6333, Doi: 10.1080/01431161.2010.508799.
29. Daboor M., Karathanassi V., Braun A., 2010, **"Multilevel hierarchical segmentation method for polarimetric SAR data based on scattering behaviour and histograms"** Canadian Journal of Remote Sensing, Vol.36 No.2, pp 142-153, Doi: 10.5589/m10-030.
30. Topouzelis K., Stathakis D., Karathanassi V., 2009, **“Investigation of genetic algorithms contribution for feature selection for oil spills detection”**, International Journal of Remote Sensing, Vol. 30, No 3, pp. 611-625, Doi: 10.1080/01431160802339456.
31. Topouzelis K., Karathanassi V., Pavlakis P., Rokos D., 2009, **“Potentiality of feed-forward neural networks for classifying dark formations to oil spills and look-alikes”**, Geocarto International, Vol.24, Issue 3, pp179-191, Doi: 10.1080/10106040802488526.
32. Saqellari-Likoka A., Karathanassi V., 2008, **“An approach for solving rank-deficient systems that enable atmospheric path delay and water vapour content estimation”**, IEEE Trans. on Geoscience and Remote Sensing, Vol. 46, No 10, pp. 3187-3195, Doi: 10.1109/TGRS.2008.921744.
33. Topouzelis K., Karathanassi V., Pavlakis P. and Rokos D., 2008, **"Dark formation detection using neural networks"** International Journal of Remote Sensing, Vol.29, No16, pp.4705-4720, Doi:10.1080/01431160801891770.
34. Topouzelis K., Karathanassi V., Pavlakis P. and Rokos D., 2007, **“Detection and discrimination between oil spills and look-alike phenomena through neural networks”**, ISPRS Journal of Photogrammetry and Remote Sensing, 62(4), pp. 264-270, Doi: 10.1016/j.isprsjprs.2007.05.003.
35. Ioannidou S. and Karathanassi V., 2007, **“Investigation of the dual-tree complex and shift invariant discrete wavelet transforms on Quickbird image fusion”**, IEEE Geoscience and Remote Sensing Letters, 4(1), pp. 166-170, Doi: 10.1109/LGRS.2006.887056.
36. 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, Issue 10, pp. 2309-2341, Doi: 10.1080/01431160600606890, IF:0.987(2007).
37. Ioannidou S., Karathanassi V., Sarris A., 2007, **“Urban area mapping based on wavelet-oriented fusion methods”**, WSEAS Transactions on Environment and Development, Issue 2, Vol.1, pp.226-233, ISSN: 1790-5079, (<https://www.academia.edu/20542133/>).

38. Karathanassi V., Topouzelis K., Pavlakis P and Rokos D, 2006, **“An object-oriented methodology to detect oil spills”**, International Journal of Remote Sensing, Vol. 27, Issue 23, pp. 5235-5251, Doi: 10.1080/01431160600693575.
39. Karathanassi V., Andronis V., and Rokos D., 2003, **«The radiative impact of aerosols emanating from biomass burning, through the Minnaert constant»**, International Journal of Remote Sensing, Vol 24. , pp.5135-5145, Doi: 10.1080/0143116031000080750.
40. Karathanassi V., Iossifidis Chr., and Rokos D., 2002, **“Remote sensing methods and techniques as a tool for the implementation of the Environmental Legislation. The Greek forest law case study”**, International Journal of Remote Sensing, Vol. 24, No 1, pp. 39-51, Doi:10.1080/01431160305004.
41. Karathanassi V., Iossifidis Chr., and Rokos D., 2000, **“A texture based classification method for classifying built areas according to their density”**, International Journal of Remote Sensing, Vol. 21, No 9, pp.1807-1823, Doi: 10.1080/014311600209751.
42. Karathanassi V., Iossifidis Chr., and Rokos D., 1999, **“A Thinning Methodology for extracting axes of Peri-Urban Road Networks from Panchromatic Satellite Images”**, International Journal of Remote Sensing, Vol. 20, No 1, 1999, pp.153-168.
43. Karathanassi V., Iossifidis Chr., and Rokos D., 1996, **“Application of machine vision techniques in the quality control of pharmaceutical solutions”**, Computers in Industry, vol. 32, pp. 160 – 179, Doi:10.1016/S0166-3615(96)00063-2.

RECENT PUBLICATIONS IN PROCEEDINGS OF INTERNATIONAL CONFERENCES (2009-2021)

1. Kleanthis Karamvasis, Vassilia Karathanassi, (2021), **«Wavelet analysis for revealing rainfall effects on ground deformation results from time series interferometric methods»**, FRINGE 2021, ESA, on line event.
2. Gouma A., Zotou I., Bellos V., Karathanassi V., Tsihrintzis V.A. (2019). **“Evaluating the performance of a hydrodynamic model using SAR images”**, In Proceedings of 11th World Congress of EWRA “Managing Water Resources for a Sustainable Future”, 25-29 June 2019, Madrid, Spain, 425-426.
3. Sitokonstantinou V., Koutroumpas A., Drivas Th., Koukos A., Karathanassi V., Kontoes H., Papoutsis I., 2020, **“A Sentinel based agriculture monitoring scheme for the control of the CAP and food security”**, RSCY2020, Paphos Cyprus, Proceedings 11524, DOI <http://dx.doi.org/10.1117/12.2571111>
4. Kremezi M. Karathanassi V., 2020, **“Correction of the BRDF effects on Sentinel-2 ocean images”**, IGARSS2019, July 28 - August 2, 2019 • Yokohama, Japan Pacifico Yokohama, DOI: 10.1109/IGARSS.2019.8899868
5. Kristolari V. Karathanassi V., 2020, **“Convolutional neural networks for detecting challenging cases in cloud masking using Sentinel-2 imagery”**, RSCY2020, Paphos Cyprus, Proceedings 11524, DOI <http://dx.doi.org/10.1117/12.2571111>
6. Karamvassis Kl., Karathanassi V., 2019, **“Multi-track N-SBAS Sentinel-1 Interferometry focused on opencast mine monitoring: The case study of the Ptolemaida-Florina coal mine in Greece”**, 4th Joint International Symposium on Deformation Monitoring (JISDM), 15-17 May 2019, Athens, Greece
7. Maria Kremezi, Vassilia Karathanassi, 2019, **“Correcting the BRDF Effects on Sentinel-2 Ocean Images”**, RSCY2019, Paphos Cyprus, Proceedings Volume 11174, Seventh International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2019); 111741C (2019) <https://doi.org/10.1117/12.2533653>
8. Karamvasis Kl., Kolokoussis P., Karathanassi V., De Pasquale V., Cerio G., 2018, **“A methodology for monitoring the upwelling phenomenon using Sentinel-3 products”**, SPIE Proceedings Volume 10773, Sixth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2018); 1077304 (2018) <https://doi.org/10.1117/12.2326205>.
9. Miltiadou M., Papoutsis Ch., Karathanassi V., Kolokoussis P., Lafon V., Sykas D., Sarelli A., Prodromou M., Hadjimitsis D., 2018, **“Detection of marine fronts: a comparison between different approaches applied on the SST product derived from Sentinel-3 data”**, Sixth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2018), August 2018, DOI: 10.1117/12.2324126.
10. Karamvasis, K. and Karathanassi V., 2017, **“Deformation effects of dams on coastal regions using sentinel-1 iw tops time series: the west lesvos, greece case”**, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLII-3/W2, 91-96, <https://doi.org/10.5194/isprs-archives-XLII-3-W2-91-2017>, 2017.

11. Psalta Ath., Karathanassi V., Kolokoussis P., 2016, "**Modified versions of SLIC algorithm for generating superpixels in hyperspectral images**", proc. IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), Los Angeles, USA, 22-24 August, 2016.
12. Saqellari-Likoka A., Vafeiadi-Bila E., Karathanassi V., 2016, "**Independent component analysis for improving the quality of interferometric products**", Proc. SPIE 9870, Computational Imaging, 987007, May 26, 2016.
13. Saqellari Likoka A., Karathanassi V., 2015, "**A Methodology for outperforming filtering results in the Interferometric Process**", Proc. SPIE 9642, SAR Image Analysis, Modeling, and Techniques XV, 96420Z, Conference Volume 9642, October 15, 2015.
14. Stavrakoudis D., Gitas Ioan., Karydas Ch., 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
15. Sykas D., and Karathanassi V., 2015, "**An automatic method for producing robust regression models from hyperspectral data using multiple simple genetic algorithms**", Third International Conference on Remote Sensing and Geoinformation, Cyprus, 16-19 March 2015.
16. Karamvasis, K. and Karathanassi V., 2015, "**Forest canopy height estimation using double-frequency repeat pass interferometry**", Third International Conference on Remote Sensing and Geoinformation, Cyprus, 16-19 March 2015.
17. Karathanassi V., Andreou Ch., 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, 924510, Amsterdam, Nederland October 23, 2014.
18. Sykas D., Karathanassi V., Fountas Sp., 2013, "**A new methodology for the spectral discrimination of plant species and their varieties using hyperspectral data: application on vetch and lentil**", First International Conference on Remote Sensing and Geoinformation, Paphos, Cyprus, 8-10 April 2013.
19. Andreou C., Karathanassi V., and Diamantopoulou G., 2013, "**Effects of band selection on the hyperspectral classification**", proc. SPIE Optics and Photonics, San Diego U.S.A, 25-29 August 2013.
20. Nikolakopoulos K., Choussiafis Ch., and Karathanassi V., 2013, "**Landslide detection using ALOS optical and radar data. A case study from the prefecture of ILIAS**", 13th International Congress of the Geological Society of Greece, 5-8 Sept 2013.
21. Andreou C. and Karathanassi V., 2012, "**New automated method for estimating the number of endmembers in hyperspectral images**", proc. IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (WHISPERS), Shanghai, China, 4-7 June 2012.
22. Andreou C. and Karathanassi V., 2012, "**A novel multiple endmember spectral mixture analysis using spectral angle distance**" proc. IEEE International Geoscience and Remote Sensing Symposium, Munich, Germany, 22-27 July 2012.
23. Karathanassi V., Choussiafis Chris., Grammatikou Z., 2012, "**Monitoring the Change in Volume of Waste in Landfill Using SAR Interferometry**", 32nd EARSeL Symposium Proceedings, Advances in Geosciences, Mykonos Island, Greece, 21 - 24 May 2012.
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