

Dr. George P. Petropoulos

Short Curriculum Vitae



Researcher Unique Identifiers: **ORCID:** orcid.org/0000-0003-1442-1423, **ResearcherID:** [F-2384-201](https://pubs.rsos.royalsocietypublishing.org/author/Boe7HJcAAAAJ),

Scopus: 56500820900, **Google Scholar:** <https://scholar.google.co.uk/citations?user=Boe7HJcAAAAJ&hl=en>

Personal Web Site: <https://petropoulosgeorge.wixsite.com/mysite>

EDUCATION

2002-2008 **PhD** in Earth Observation Modelling, Dept. of Geography, Kings College London, UK
2001-2002 **MSc** in Remote Sensing, University of London (intercollegiate degree between University College London, Imperial College & King's College) UK
1994-1999 **BSc** in Natural Resources Development & Agricultural Engineering, Agricultural University of Athens, Greece

CURRENT JOB POSITION

2020 – Now *Assistant Professor in Geoinformatics* – Department. of Geography, Harokopio University of Athens, Greece

RESEARCH INTERESTS

- Earth Observation, GIS, digital cartography, GPS, simulation models, ground networks
- Geoinformation in geographical and environmental applications
- Mapping of the natural and man-made environment and monitoring of their changes over time
- Study of biotic and abiotic hazards and of their spatiotemporal dynamics
- Development and implementation of geoinformation tools
- All-inclusive assessment of EO and modelling algorithms and products
- Operational products development and applications from geoinformation

PROFESSIONAL EXPERIENCE

2018 – 2021 *Marie Curie Fellow* – Technical University of Crete, Department of Mineral Resources Engineering, Chania, Crete, Greece
2018 – 2020 *Associate Researcher in Remote Sensing & Geographical Information Systems (GIS)* – Hellenic Agricultural Organisation “Demeter” (Former NAGREF), Institute of Soils Mapping, Ministry of Agriculture, Larisa, Greece
2016 – 2018 *Reader (Associate Professor) in Remote Sensing & GIS*, Dept. of Geography and Earth Sciences (DGES), Aberystwyth University (AU), UK
2014 – 2016 *Senior Lecturer in Remote Sensing & GIS*, Dept. of Geography and Earth Sciences (DGES), Aberystwyth University (AU), UK
2012 – 2014 *Lecturer in Remote Sensing and GIS*, Dept. of Geography and Earth Sciences, Aberystwyth University, UK
2011 – 2014 *Postdoctoral Scholar of the European Space Agency (ESA)*, Institute of Applied and Computational Mathematics, Heraklion, Crete, Greece and DGES at AU/UK
2010 – 2011 *Postdoctoral Research Fellow*, Dept. of Natural Resources and Agricultural Engineering, Agricultural University of Athens, Greece
2009 – 2010 *Research Fellow*, Institute of Space Applications and Remote Sensing, National Observatory of Athens, Greece
2009 – 2010 *Research Fellow*, Dept. of Environmental Management, Mediterranean Agronomic Institute of Chania, Crete, Greece
2008 – 2009 *Postdoctoral Research Fellow*, Dept. of Earth Sciences, University of Bristol, UK

RESEARCH STUDENTS SUPERVISION (completed PhD's only)

Khidir Abdalla	PhD Thesis title: “ <i>Soil moisture retrievals from the synergy of Earth Observation datasets</i> ”. School of Atmospheric Physics, Nanjing University of Information Science & Technology, China.
Kwal Deng	
Salim Lamine	PhD Thesis title: “ <i>Contribution of Hyperspectral satellite images to study the interaction between the plant cover and the soil</i> ”. Dept of Ecology and Environment, University of Sciences and Technology Houari Boumediene (USTHB), BP 32, El Alia Bab Ezzouar, Algiers, Algeria.
Joshua Jones	PhD Thesis title: “ <i>Assessing the impacts of previous land use on the regeneration of tropical rainforests in areas of abandoned agriculture in the Brazilian Amazon</i> ”. PhD supervision start date 11/2013. Dept of Geography & Earth Sciences, Aberystwyth University, UK.
Rebecca Charnock	PhD Thesis title: “ <i>Assessment of biodiversity indicators utilizing remote sensing data</i> ”. PhD supervision start date 04/2012. Dept of Geography & Earth Sciences, Aberystwyth University, UK.

FELLOWSHIPS

2017	Marie Curie Individual Fellowship (IF) , project “ENVISION-EO” (top 4.01% score)
2015	Senior Fellow awarded from the UK's Higher Education Academy (HEA) in recognition of my teaching contribution and impact outside of a UK academic institute
2014	Research Scientist Visitor at the NASA's Hydrology Group , Goddard, USA.
2013	Marie Curie Reintegration Grant (GIG) , project TRANSFORM-EO” (top 9% score)
2010	European Space Agency (ESA) award obtained for pursuing postdoctoral research. My proposal was one of the 10 accepted by ESA in a call that was open for all ESA-Member States and Canada
2009	Honorary Research Fellow , Dept. of Earth Sciences, Bristol University, UK
2009	Postdoctoral Research Fellowship obtained from the Ministry of Education, Greece
2002	Postgraduate Studies Scholarship obtained from the Greek Scholarships Foundation (IKY) to pursue postgraduate studies (MSc, PhD) in the field of Earth Observation/GIS

RESEARCH PROJECTS (list indicative)

2021	KALLIPOS : Repository of Greek e-textbooks. Funding to develop a textbook (in Greek) entitled “Introduction to Cartography & GIS”. Funding amount: 6,500 euros
2018	COST Action “Optical synergies for spatiotemporal sensing of scalable ecophysiological traits” (CA17134), EU-funded project. Duration: 4 years. My role: Management Committee member
2018	Newton Fund Research Partnerships, UK-Indonesia call for proposals . Proposal title: “Towards a Fire Early Warning System for Indonesia (ToFEWSI)”. My role: Co-I. Funding amount: £180,000, of which I managed £58,000.
2017	Marie Curie Individual Fellowship : ENViSioN-EO. Research for 2 years focusing on the investigation of improved estimates of key parameters characterising land surface interactions from the synergies of EO data and land biosphere models. Project duration: 2 years; My role: fellow; Funding amount: ~€168,000.
2015	Newton Fund, NSFC Agritech, UK : “Synthesis of EO and novel ground truth sensors to develop high resolution soil moisture forecasts in China and the UK”. Project budget: £970,000; duration: 3 years; Role: Co-I of which I managed £235,000.
2014	High Performance Computing Facilities (HPC) Wales : “Investigating the Prototyping the retrievals of existing EO-based operational products for the estimation of evapotranspiration rates (ET) and soil moisture. Co-Is: NASA Hydrology Group, USA & Geosmart Solution Ltd, UK. duration: 3 years; Role: PI; Funding amount: £44,500.

- 2013 **Marie Curie Career Integration Grant: TRANSFOrM-EO.** Estimation of energy fluxes and soil moisture from the synergy of Earth Observation (EO) and simulation process model SimSphere. duration: 3 years; Role: fellow; *Funding amount: €100,000.*
- 2012 **University of Aberystwyth Research Funds:** Towards the development of a continuous, autonomous long-term monitoring of soil moisture content and related parameters for west Wales. duration: 1 year; Role: PI; *Funding amount: £4,850.*
- 2011 **European Space Agency (ESA).** Funding obtained for pursuing postdoctoral research in prototyping the retrievals of energy fluxes and soil surface moisture from ESA satellites. Role: PI; *Funding amount: €116,400.*

POSITIONS OF COMMISSIONS OF TRUST *(indicative examples below)*

- 2018 – Now **EUMETSAT LSA SAF Space Agency,** *appointed to evaluate forthcoming operational products by the Space Agency*
- 2017 – Now **Copernicus Global Land Services of European Commission** *appointed by EU to evaluate the quality of several operational products to be distributed via Copernicus*
- 2016 – 2017 **Expert evaluator and rapporteur for the EU's HORIZON2020 "Space" call**
- 2015 – 2018 **Elected Trustee of the Remote Sensing & Photogrammetric Society (RSPSoC)**
- 2015 – Now **Expert evaluator for funding bodies such as:** *Austrian Science Fund (FWF), National Research Fund of Luxembourg, Belgian Science Policy Office, British Council (UK), NERC (UK)*

EDITORIAL WORK *(indicative examples)*

- 2015 – 2020 **Editor of SENSED,** *Newsletter Remote Sensing & Photogram. Society (RSPSoC UK)*
- 2016 – Now **Associate Editor:** *International Journal of Remote Sensing (Taylor & Francis), Environmental Modelling & Software (Elsevier), Remote Sensing Applications: Society & Environment (Elsevier), Remote Sensing MDPI, Fires (MDPI)*
- 2017 – Now **Editorial Board Member:** *International Journal of Applied Earth Observation & Geoinformaiton (Elsevier) Applied Geography (Elsevier), GIScience & Remote Sensing (Taylor & Francis), Sensors (MDPI), Geoscientific Data (Nature)*
- 2014 – Now **Editorial Board Member:** *Remote Sensing & ISPRS Intern. Journal of Geo-Information (MDPI), Journal of Applied Rem. Sensing, Comput. Ecology & Software*

SPECIAL ISSUES ORGANISATION TO SCIENTIFIC JOURNALS *(indicative examples)*

- 2021 **Editor of Special Issue** *“Open source geoinformation software tools in environmental modelling”, in journal Environmental Modelling & Software Elsevier*
- 2021 **Editor of Special Issue** *“Novel methods & applications in satellite and aerial imagery time series analysis”, in journal Remote Sensing MDPI*
- 2021 **Editor of Special Issue** *“Applications of spatial science & technology in health research”, in journal Remote Sensing MDPI*
- 2020 **Editor of Special Issue** *“Remote Sensing for biophysical and biochemical properties of crops”, in journal Remote Sensing MDPI*
- 2019 **Editor of Special Issue** *“Spaceborne RADAR Remote sensing of Agricultural Canopies and Soil Moisture”, in journal Sensors MDPI*
- 2018 **Editor of Special Issue** *“GPS/GNSS Contemporary Applications”, in journal Remote Sensing MDPI*
- 2018 **Editor of Special Issue** *“Satellite Remote Sensing for Water Resources in a Changing Climate” in journal Remote Sensing MDPI*
- 2016 **Editor of Special Issue** *“Earth Observation Technologies for Agrometeorology and Agroclimatology”, in journal of Applied Remote Sensing*
- 2015 **Editor of Special Issue** *“SimSphere model: developments & applications”, in journal*

ORGANISATION OF SCIENTIFIC MEETINGS (indicative examples)

- 2021 *Scientific Committee Member of the IEEE workshop on Hyperspectral Image & Signal Processing: Evolution in Remote Sensing, May 24-26, 2021*
- 2021 *Scientific Committee Member of the conference “ Global meet on Sensors & Sensing technology, June 20-22, 2022, Rome, Italy*
- 2020 *Scientific Committee Member of the 2nd Conference of the Arabian Journal of Geosciences (CAJG). November, 2-5, 2020, Sousse, Tunisia*
- 2020 *Scientific Committee Member of the DRONES & ROVS 2020. April, 29-30th, 2020, London, UK.*
- 2019 *Scientific Committee Member of the European Space Agency (ESA)’s Living Planet Symposium, May 13-17th, 2019, Milan, Italy*
- 2018 *Scientific Committee Member of the 4th International Conference on Fuzzy Systems and Data Mining, Nov. 16-19th, 2018, Bangkok, Thailand*
- 2018 *Scientific Committee Member of the International Conference on Advanced Remote Sensing: October, 15-18th, 2018 Wuhan, China,*
- 2018 *Scientific Committee Member of the 4th International Conference on Fuzzy Systems and Data Mining, Nov. 16-19th, 2018, Bangkok, Thailand*
- 2016 *Scientific Committee Member of the European Space Agency (ESA)’s Living Planet Symposium, Prague, Czech Republic*

ORGANISATION OF EXPERT SESSIONS AT INTERN. CONFERENCES (examples below)

- 2021 *Convener of session “Impact of Climate Change in Agriculture”, at EGU2021, Vienna, Austria*
- 2021 *Convener of session “Novel methods and applications of satellite and aerial time series imagery”, at EGU2021, Vienna, Austria*
- 2019 *Convener of session “Advances in remote sensing data analyses for investigating nonlinear processes”, at EGU 2019, Vienna, Austria*
- 2019 *Co-Convener of session “Impact of climate change on agriculture”, at EGU 2019, Vienna, Austria*
- 2018 *Co-Convener of session “EO & GIS use in Water Resources Management”, AT THE 10th World Congresss on Water Resources & Environment, EWRA, July, 5-9th, Athens Greece.*
- 2016 *Co-Convener of session “Smart Water for the Future”, 12th International Conference on Hydroinformatics, Songdo Convensia, Incheon, Korea*
- 2014 *Organising Committee Member of the RSPSoc, UK Annual Conference*
- 2014 *Convener of session “Uncertainty & Sensitivity Analysis in Geoscience” , EGU*

PUBLICATIONS: EDITED BOOKS

- 1) **Petropoulos, G.P. & P.K. Srivastava (2021):** *GPS and GNSS Technology in Geosciences*. Elsevier, ISBN: 9780128186176
- 2) **Pandey, P.C., P.K. Srivastava, H. Baltzer, B. Bhattacharya & G.P. Petropoulos (2020):** *Hyperspectral Remote Sensing: Theory & Applications*. Elsevier, ISBN: 978-0-08-102894-0
- 3) **Petropoulos, G.P. & T. Islam (2017):** *Remote Sensing of Hydrometeorological Hazards*, ISBN: 978-1-4987-7758-2, Elsevier, ISBN: 978-01-4987-7758-2.
- 4) **Petropoulos, G.P. & P.K. Srivastava (2016):** *Sensitivity Analysis in Earth Observation*, Elsevier, [in press, to be in circulation October 2016].
- 5) **Srivastava P.K., G.P. Petropoulos & Y. Kerr (2016):** *Satellite Soil Moisture Retrieval: Techniques and Applications*, Elsevier, ISBN: 978-0-12-803388-3.
- 6) **Petropoulos G.P. (2013):** *"Remote Sensing of Energy Fluxes and Soil Moisture Content"*, 506 pp,

PUBLICATIONS: BOOK CHAPTERS (in total: +30 chapters; book chapters published so far; full list available in my personal webpage or [ResearcherID](#))

2021

- 1) **Suman, S., P.K. Srivastava, G. P. Petropoulos, R. Avtar, R. Prasad, S. K. Singh, S. Mustak & I. Faraslis (2021):** Performance assessment of Phased Array type L-band Synthetic Aperture Radar and Landsat-8 used in image classification, Chapter X, pp: xx-xx, in book entitled “Radar Remote Sensing: Application and Challenges”, edited by P.K. Srivastava & D. K. Gupta, Elsevier, ISBN: 9780128234570 [chapter accepted, expected to be published end of 2021]
- 2) **Papafilippaki, A., G. Stavroulakis & G.P. Petropoulos (2021):** Geoinformation technologies in pest Management: mapping olive fruit fly population in olive trees. Chapter xx, in book entitled “Information and Communication Technologies for Agriculture—Theme I: Sensors”, published by Springer, USA, edited by Bochtis, D. D., V. Moysiadis, G. P. Petropoulos, Y. Ampatzidis & P.M. Pardalos [chapter accepted, expected to be published end of 2021]
- 3) **Sandric, I., R. Irimia, G. P. Petropoulos, D. Stateras, D. Kalivas & A. Plesoianu (2021):** Drone Imagery in support of orchards trees vegetation assessment based on spectral indices and deep learning. Chapter xx, in book entitled “Information and Communication Technologies for Agriculture—Theme I: Sensors”, published by Springer, USA, edited by Bochtis, D. D., V. Moysiadis, G. P. Petropoulos, Y. Ampatzidis & P.M. Pardalos [chapter accepted, expected to be published end of 2021]

2020

- 1) **Lamine, S. M.K. Pandey, G.P. Petropoulos, P. A. Brewer, P. K. Srivastava, K. Manevski, L. Toullos, N. I. Bachari (2020):** Spectroradiometry as a tool for monitoring soil contamination by heavy metals in a floodplain site, pp: 249-268, in *Hyperspectral Remote Sensing: Theory & Applications*, edited by Pandey, P.C., P.K. Srivastava, B. Bhattacharya & G.P. Petropoulos (2020): Elsevier, ISBN: 978-0-08-102894-0
- 2) **Pandey, P. C., H. Balzter, P.K. Srivastava, G.P. Petropoulos & B. Bhattacharya (2020):** Future perspectives and challenges in hyperspectral remote sensing, pp: 429-440, in *Hyperspectral Remote Sensing: Theory & Applications*, edited by Pandey, P.C., P.K. Srivastava, B. Bhattacharya & G.P. Petropoulos (2020): Elsevier, ISBN: 978-0-08-102894-0
- 3) **Petropoulos, G.P., I. Sandric, A. Pavlides & D. T. Hristopulos (2020):** A preliminary evaluation of the “simplified triangle” with Sentinel-3 images for mapping surface soil moisture and evaporative fluxes: results obtained in a Spanish savannah environment, pp: 209-226, in “Agricultural Water Management”, published by Elsevier, USA”, Edited by M. Gupta, P. K. Srivastava, G. Tsakiris & N. Quinn, 9780128123621, Elsevier.

2019

- 4) **Dalezios, N., G.P. Petropoulos & I. Faraslis (2019):** Concepts and Methodologies of Environmental Hazards Affecting Agriculture and Agroecosystems. Chapter 1, pp: xx-xx, to appear in “Techniques for Disaster Risk Management and Mitigation”. Publisher AGU-Wiley. ISBN-10: 111935918X [in press]
- 5) **Howells, O. G.P. Petropoulos & Z. Ioannou (2019):** Evaluating the Potential for National Coverage of Soil Moisture Monitoring using Remote Sensing. Chapter 8, pp: xx-xx, to appear in “Techniques for Disaster Risk Management and Mitigation”. Publisher AGU-Wiley. ISBN-10: 111935918X [in press]
- 6) **Stippa, S.R., K.P. Ferentinos, G. P. Petropoulos (2019).** An Exploration of the Panther Mountain Crater Impact Using Spatial Data and GIS Spatial Correlation Analysis Techniques. Chapter 10, pp: xx-xx, in “Techniques for Disaster Risk Management and Mitigation”. Publisher AGU-Wiley. ISBN-10: 111935918X [in press]
- 7) **Suman S., M.R. North, G.P. Petropoulos, P. K. Srivastava, J.P. McCalmont, D. S. Fuzzo, S. Lamine & T. Carlson (2018):** Modelling Key Parameters Characterising Land Surface in 1D Space Using the SimSphere SVAT Model: Findings From its Use at European Ecosystems. Chapter xx, pp: xx-xx, to appear in “Agricultural Water Management: Theory and Practices”, published by Elsevier, USA”,

2018

- 8) **Pandley, P.C., K. Manevski, P.K. Srivastava & G.P. Petropoulos (2018):** The Use of Hyperspectral Earth observation Data for Land Use/Cover Classification: Present Status, Challenges and Future Outlook. Chapter 8, pp: 147-173, to appear in “Hyperspectral Remote Sensing of Vegetation”, published by Taylor & Francis CRC Press. 9781439845370, Edited by P. Thenkabail. [in press].

2017

- 9) **Dalezios N. R. & G.P. Petropoulos (2017):** Frost and Remote Sensing: An Overview of Capabilities & Potential. Chapter 6, pp: 105-129, in “Remote Sensing of Hydrometeorological Hazards, Edited by G.P. Petropoulos & T. Islam, ISBN: 978-1-4987-7758-2, Elsevier.
- 10) **Louka, P., I. Papanikolaou, G.P. Petropoulos & N. Stathopoulos (2017):** Temperature Fluctuation & Frost Risk Analysis on a Road Network by Coupling Remote Sensing Data, Thermal Mapping and GIS Techniques. Chapter 9, pp: 183-210, in “Remote Sensing of Hydrometeorological Hazards, Edited by G.P. Petropoulos & T. Islam, pp520, ISBN: 978-1-4987-7758-2, Elsevier.

PUBLICATIONS: ARTICLES TO INTERNATIONAL JOURNALS (in total: +100 journal papers; h-index:34; h10 index:780 in google scholar, total citations: 3,948-- as of 26/09/2021. All my published papers are available in my [ResearcherID](#))

2021 (complete list, until 09/2021):

1. **Srivastava, P.K. G. P. Petropoulos, R. Prasad & D. Triantakonstantis (2021):** Random Forests with least trimmed squares regression for soil moisture deficit using SMOS satellite soil moisture. ISPRS International Journal of Geo-Information MDPI, 10, 507-520, <https://doi.org/10.3390/ijgi10080507> [IF: 2.899]
2. **Wang, X., B. Yang, Y. Bao, G. P. Petropoulos, H. Liu & B. Hu (2021):** Seasonal trends in clouds and radiation over the Arctic areas from satellite observations during 1982 to 2019. Remote Sensing MDPI, 13, 3201-3219, <https://doi.org/10.3390/rs13163201> [IF: 4.848]
3. **Mehmood, K., Y. Bao, R. Abbas, Saifullah, G. P. Petropoulos, H. Raza Ahmad, M. M. Abrar, A. Mustafa, A. Abdalla, K. Lasaridi & S. Fahad (2021):** Pollution characteristics and human health risk assessments of toxic metals and particle pollutants via soil and air using geoinformation in urbanised city of Pakistan. *Environmental Science & Pollution*, doi: <https://doi.org/10.1007/s11356-021-14436-x>, in press [IF: 4.223]
4. **Srivastava, P.K. R. K. Pradhan, G. P. Petropoulos, V. Pandey, M. Gupta, A. Yaduvanshi, W. Jaafar, R. K. Mall & A. K. Sahai (2021):** Long-term trend analysis of precipitation and extreme events over Kosi river basin in India. Water MDPI, 13, 1695-1703 doi: <https://doi.org/10.3390/w13121695> [IF: 3.103]
5. **Anand, A. R. K. M. Malhi, P.K. Srivastava, P. Singh, A. N. Mudaliar, G.P. Petropoulos & C. S. Kiramn (2021):** Optimal band characterisation in reformation of hyperspectral indices for species diversity estimation. *Physics & Chemistry of the Earth*, pp: 1030-40, doi: <https://doi.org/10.1016/j.pce.2021.103040> [IF: 2.712]
6. **Hu, J., Y. Bao, J. Liu, H. Liu, G. P. Petropoulos, P. Katsafados, L. Zhu & X. Cai (2021):** Temperature and relative humidity profile retrieval from Fengyun-3D/HIRAS in the arctic Region. Remote Sensing MDPI, (13), 1884-2004, <https://www.mdpi.com/2072-4292/13/10/1884> [IF: 4.848]
7. **Srivastava, P. K., M. Gupta, U. Singh, R. Prasad, P. C. Pandey, A.S. Raghubanshi & G. P. Petropoulos (2021):** Sensitivity analysis of artificial neural network for chlorophyll prediction using hyperspectral data. *Environment, Development and Sustainability*, 23, pp5504-5519, doi: <https://doi.org/10.1007/s10668-020-00827-6> [IF: 3.219]
8. **Maurya, S., P.K. Srivastava, A. Yaduvanshi, G.P. Petropoulos, L. Zhuo & R.K. Mall (2021):** Soil erosion in future scenario using CMIP5 models and Earth Observation datasets. *Journal of Hydrology*, [in press] [IF: 5.722]
9. **Mehmood, K., Y. Bao, G. P. Petropoulos, R. Abbas, M. M. Abrar, Saifullah, A. Mustafa, A. S.**

- Shah Saud, M. Ahmad, I. Hussain & S. Fahadl (2021):** Investigating connections between COVID-19 pandemic, air pollution and community interventions for Pakistan employing geoinformation technologies, *Chemosphere*, 272, doi: <https://doi.org/10.1016/j.chemosphere.2021.129809> [IF: 7.086]
10. **Tsatsaris, A., K. Kalogeropoulos, N. Stathopoulos, P. Louka, K. Tsanakas, D. E. Tsesmelis, V. Krassanakis, G. P. Petropoulos, V. Pappas & C. Chalkias (2021):** Geoinformation Technologies in Support of Environmental Hazards Monitoring under Climate Change: An Extensive Review. *ISPRS International Journal of Geo-Information*, 10 (94) 1-32, doi: <https://doi.org/10.3390/ijgi10020094> [IF: 2.889]
 11. **Mehmood, K., Y. Bao, M. Abrar, G. P. Petropoulos, Saifullah, A. Soban, S. Saud, Z. A. Khan, S.M. Khan & S. Fahad (2021):** Spatiotemporal variability of COVID-19 pandemic in relation to air pollution, climate and socioeconomic factors in Pakistan, *Chemosphere*, 272, doi: <https://doi.org/10.1016/j.chemosphere.2021.1295840045-6535> [IF: 7.086]
 12. **Malhi, R.K.M., M. K. Pandey, A. Anand, P.K. Srivastava, G.P. Petropoulos, P. Singh, G. Sandhya Kiran & B. K. Bhattacharya (2021):** Band selection algorithms for foliar trait retrieval using AVIRIS-NG: a comparison of feature based attribute evaluators, *Geocarto International*, DOI: 10.1080/10106049.2020.1870167 [IF: 4.889]
 13. **Pandey, V.; P.K., Srivastava, K., Singh, S G.P. Petropoulos, Mall, R.K. (2021):** Drought Identification and Trend Analysis Using Long-Term CHIRPS Satellite Precipitation Product in Bundelkhand, India. *Sustainability*, 13, 1042. <https://doi.org/10.3390/su13031042> [IF: 3.251]
 14. **Al-Hajri, S. M., G.P. Petropoulos & V. Markogianni (2020):** Seasonal variation of key environmental parameters in the Sea of Oman using EO data and GIS. *Environment, Development and Sustainability*, doi:10.1007/s10668-020-00860-5 [IF: 1.930].
 15. **Gupta, D. K., P. K. Srivastava, A. Singh, G. P. Petropoulos, N. Stathopoulos & R. Prasad (2021):** SMAP soil moisture product assessment over wales, UK, using observations from the WSMN ground monitoring network. *Sustainability MDPI*, 13, 6019-6028, doi: <https://doi.org/10.3390/su13116019> [IF: 3.251]
- 2020 (complete list)**
- 1) **Al-Hajri, S. M., G.P. Petropoulos & V. Markogianni (2020):** Seasonal variation of key environmental parameters in the Sea of Oman using EO data and GIS. *Environment, Development and Sustainability*, doi:10.1007/s10668-020-00860-5 [IF: 1.930].
 - 2) **Anand, A., P.C. Pandey, G.P. Petropoulos, A. Pavlides, P.K. Srivastava, J. K. Sharma & R. K. M. Malhi (2020):** Use of Hyperion for Mangrove Forest Carbon Stock Assessment in Bhitarkanika Forest Reserve: A Contribution Towards Blue Carbon Initiative. *Remote Sensing MDPI*, 12, 597; doi:10.3390/rs12040597 [IF: 4.509].
 - 3) **Cai, X., Y. Bao, G.P. Petropoulos, F. Lu, Q. Lu, L. Zhu & Y. Wu (2020):** Temperature and Humidity Profile Retrieval from FY4-GIIRS Hyperspectral Data Using Artificial Neural Networks. *Remote Sensing MDPI*, 12, 1872-1896, doi:10.3390/rs12111872 [IF: 4.509].
 - 4) **Fragou, S., K. Kalogeropoulos, N. Stathopoulos, P. Louka, P.K. Srivastava, S. Karpouzas, D.P. Kalivas & G.P. Petropoulos (2020):** Quantifying Land Cover Changes in a Mediterranean Environment Using Landsat TM and Support Vector Machines. *Forests MDPI*, 11, 750-769, doi:10.3390/f11070750 [IF: 2.221].
 - 5) **Kalogeropoulos, K., N. Stathopoulos, A. Psarogianis, E. Pissias, P. Louka, G.P. Petropoulos & C. Chalkias (2020):** An Integrated GIS-Hydro Modeling Methodology for Surface Runoff Exploitation via Small-Scale Reservoirs. *Water MDPI*, 12, 3182-3200, doi:10.3390/w12113182. [IF: 2.544].
 - 6) **Louka, P., I. Papanikolaou, G.P. Petropoulos, K. Kalogeropoulos & N. Stathopoulos (2020):** Identifying Spatially Correlated Patterns between Surface Water and Frost Risk Using EO Data and Geospatial Indices. *Water MDPI*, 12, 700; doi:10.3390/w12030700 [IF: 2.544].
 - 7) **Malhi, R.K. M., A. Anand, P.K. Srivastava, G. Sandhya Kiran, G.P. Petropoulos & C. Chalkias (2020):** An Integrated Spatiotemporal Pattern Analysis Model to Assess and Predict the Degradation of Protected Forest Areas. *ISPRS International Journal of Geoinformation MDPI*, 9, 530-550,

doi:10.3390/ijgi9090530. [IF: 2.239].

- 8) **Markogianni, V., D. Kalivas, G.P. Petropoulos & E. Dimitriou (2020):** Estimating Chlorophyll-a of Inland Water Bodies in Greece Based on Landsat Data. *Remote Sensing MDPI*, 12, 2087-2109, doi:10.3390/rs12132087. [IF: 4.509].
 - 9) **Petropoulos, G.P. & D. Hristopulos (2020):** Retrievals of key biophysical parameters at mesoscale from the Ts/VI scatterplot domain. *Geocarto International*, <https://doi.org/10.1080/10106049.2020.1821099> [IF: 3.789].
 - 10) **Petropoulos, G.P., Maltese, A., Carlson, T.N., Provenzano, G., Pavlides, A., Ciraolo, G., Hristopulos, D., Capodici, F., Chlakias, C., Dardanelli, G. & S. Manfreda (2020):** Exploring the use of UAVs with the simplified "triangle" technique for Soil Water Content and Evaporative Fraction retrievals in a Mediterranean setting. *International Journal of Remote Sensing*, 42 (5), doi.org/10.1080/01431161.2020.1841319 [IF: 2.976].
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