

# Δρ. Γεώργιος Π. Πετρόπουλος

## Συνοπτικό Βιογραφικό Σημείωμα



Researcher Unique Identifiers: **IRCID:** [orcid.org/0000-0003-1442-1423](https://orcid.org/0000-0003-1442-1423), **Scopus:** 56500820900

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

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

**Citation metrics:** total citations: 5182, H-index: 39, H-10 index: 99 (as per Google scholar, 20/11/2022)

### ΕΚΠΑΙΔΕΥΣΗ

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

### ΘΕΣΗ ΕΡΓΑΣΙΑΣ

2020 – σήμερα	<b>Επίκουρος Καθηγητής με γνωστικό αντικείμενο Γεωπληροφορική</b> – Τμήμα Γεωγραφίας, Χαροκόπειο Πανεπιστήμιο Αθηνών, Αθήνα, Ελλάδα.
---------------	--

### ΕΡΕΥΝΗΤΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ

- Τηλεπισκόπηση, Συστήματα Γεωγραφικών Πληροφοριών, ψηφιακή χαρτογραφία, συστήματα εντοπισμού θέσης, μοντέλα προσομοίωσης, επίγεια δίκτυα μετρήσεων
- Γεωπληροφορική σε γεωγραφικές και περιβαλλοντικές εφαρμογές
- Χαρτογράφηση του φυσικού και ανθρωπογενούς περιβάλλοντος και διαχρονική παρακολούθηση των μεταβολών τους
- Μελέτη βιοτικών και αβιοτικών κινδύνων και των δυναμικών αυτών χωροχρονικά
- Σχεδιασμός και ανάπτυξη εργαλείων γεωπληροφορικής με εφαρμογές στο γεωπεριβάλλον
- Ανάπτυξη και εφαρμογή μεθόδων ολιστικής αξιολόγησης στην Τηλεπισκόπηση
- Επιχειρησιακή χρήση, προϊόντα και εφαρμογές γεωπληροφορικής

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

**ΕΠΙΒΛΕΨΗ ΔΙΔΑΚΤΟΡΙΚΩΝ ΔΙΑΤΡΙΒΩΝ** (ολοκληρωμένες διατριβές μόνο)

- Khidir Abdalla** PhD Thesis title: “*Soil moisture retrievals from the synergy of Earth Observation datasets*”. School of Atmospheric Physics, Nanjing University of Information Science & Technology, China.
- Kwal Deng**
- Salim Lamine** PhD Thesis title: “*Contribution of Hyperspectral satellite images to study the interaction between the plant cover and the soil*”. 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: “*Assessing the impacts of previous land use on the regeneration of tropical rainforests in areas of abandoned agriculture in the Brazilian Amazon*”. PhD supervision start date 11/2013. Dept of Geography & Earth Sciences, Aberystwyth University, UK.
- Rebecca Charnock** PhD Thesis title: “*Assessment of biodiversity indicators utilizing remote sensing data*”. PhD supervision start date 04/2012. Dept of Geography & Earth Sciences, Aberystwyth University, UK.

**ΥΠΟΤΡΟΦΙΕΣ/ΔΙΑΚΡΙΣΕΙΣ** (ενδεικτική αναφορά)

- 2017-2021 **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

**ΕΡΕΥΝΗΤΙΚΑ ΕΡΓΑ** (ενδεικτική αναφορά)

- 2023:** **EU HORIZON Europe**, funded project “ A cloud-based remote sensing data system for promoting research and socioeconomic studies in arctic environments – EO-PERSIST”, Duration: 4 years., Role: PI, *Funding amount: 1,568.600 euros*
- 2022:** **HUA Greece**, funded project: “ "Evaluation of the Physical Capital of Harokopio University: The road to the «Green University»" Duration: 41 year, Role: Co-I. *Funding amount: 5,000 euros*
- 2022:** **EU HORIZON Europe**, funded project: “safeGUARDing biodiversiTy aNd critical ecosystem services across sectors and scales – GUARDEN”, Role: participant, *Funding amount: 5M euro*
- 2022:** **COST Action:** “Opportunistic precipitation sensing network” (CA20136). EU-funded project. Duration: 4 years. Role: National Delegate and Management Committee
- 2021:** **KALLIPOS:** Funding to develop a an e-textbook (in Greek) “Introduction to Cartography & GIS”. Duration: 1.5 years, Role: PI. *Funding amount: 8,500 euros*
- 2019:** **COST Action:** “On the Use of Unmanned Aerial Systems for Environmental Monitoring, HARMONIOUS” (CA16219). Participant to WPs of the Action, mainly in WP2 (Vegetation state Monitoring from UAVs)
- 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)*

### **ΣΥΝΤΑΚΤΙΚΟ ΕΡΓΟ** *(ενδεικτική αναφορά)*

#### **Editor Roles:**

- 2015 – 2020 **Editor of SENSED,** *Newsletter Remote Sensing & Photogram. Society (RSPSoC UK)*
- 2021 – Now [\*Environmental Modeling & Software, Elsevier\*](#) [IF: 5.471]
- 2016 – Now [\*International Journal of Remote Sensing, Taylor & Francis\*](#) [IF: 3.151]
- 2015 – 2020 Editor of “SENSED”, *Newsletter of the UK Remote Sensing & Photogrammetric Society*

#### **Associate Editor Roles:**

- 2021 – Now [\*Remote Sensing Applications: Society & Environment \(RSASE\), Elsevier\*](#)
- 2019 – Now [\*European Journal of Remote Sensing \(Taylor & Francis\)\*](#) [IF: 3.168]
- 2017 – Now [\*Remote Sensing MDPI\*](#) [IF: 5.349]

#### **Editorial Board Member:**

- 2022 – Now [\*Geocarto International \(Taylor & Francis group\)\*](#) [IF: 3.452]
- 2021 – Now [\*Intern. Journal of Applied Earth Observation & Geoinformation, Elsevier\*](#) [IF: 7.672]

- 2019 – Now *Scientific Data, Nature* [IF: 8.501]  
 2018 – Now *Applied Geography, Elsevier* [IF: 4.732]  
 2018 – Now *GIScience & Remote Sensing, Taylor & Francis* [IF: 6.238]

### ΔΙΟΡΓΑΝΩΣΗ ΕΞΕΙΔΙΚΕΥΜΕΝΩΝ ΘΕΜΑΤΙΚΩΝ ΕΝΟΤΗΤΩΝ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ (ενδεικτική αναφορά)

- 2022 **Editor of Special Issue** “The Use of Hyperspectral Remote Sensing Data in Mineral Exploration” journal *Remote Sensing MDPI* [IF: 5.349]  
 2021 **Editor of Special Issue** “Open source geoinformation software tools in environmental modelling” journal of *Environmental Modelling & Software, Elsevier* [IF: 5.471]  
 2021 **Editor of Special Issue** “Novel Methods and Applications in Satellite and Aerial Imagery Time Series Analysis” journal *Remote Sensing MDPI* [IF: 5.349]  
 2019 **Editor of Special Issue** “Remote Sensing for biophysical and biochemical properties of crops” journal *Remote Sensing MDPI*  
 2019 **Editor of Special Issue** “Spaceborne RADAR Remote sensing of Agricultural Canopies and Soil Moisture” journal *Sensors MDPI*  
 2018 **Editor of Special Issue** “GPS/GNSS Contemporary Applications” journal *Remote Sensing MDPI*  
 2018 **Editor of Special Issue** “Satellite Remote Sensing for Water Resources in a Changing Climate” journal *Remote Sensing MDPI*  
 2016 **Editor of Special Issue** “Earth Observation Technologies for Agrometeorology and Agroclimatology” journal of *Applied Remote Sensing*  
 2015 **Editor of Special Issue** “SimSphere model: developments & applications” the journal *Geoscientific Model Development*

### ΣΥΜΜΕΤΟΧΗ ΣΤΗ ΔΙΟΡΓΑΝΩΣΗ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΣΥΝΕΔΡΙΩΝ (ενδεικτική αναφορά)

- 2022 **Organizing Committee member** of the 4<sup>th</sup> Conference of GIS and Spatial Analysis in Agriculture & Environment (GIS Congress AUA, May 24–26<sup>th</sup> 2022, Athens, Greece  
 2022 **Scientific Committee member** of the Living Planet Symposium of the European Space Agency (ESA), May 23-27<sup>th</sup>, 2022, Bonn, Germany  
 2021 **Technical Committee member** of the IEEE workshop on Hyperspectral Image & Signal Processing: Evolution in Remote Sensing, May 24-26<sup>th</sup>, 2021, online event  
 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, 29-30<sup>th</sup>, 2020, London, UK.  
 2019 **Scientific Committee Member** of the European Space Agency (ESA)’s Living Planet Symposium, May 13-17<sup>th</sup>, 2019, Milan, Italy  
 2018 **Scientific Committee Member** of the 4th International Conference on Fuzzy Systems and Data Mining, Nov. 16-19<sup>th</sup>, 2018, Bangkok, Thailand  
 2018 **Scientific Committee Member** of the International Conference on Advanced Remote Sensing: October, 15-18<sup>th</sup>, 2018 Wuhan, China,  
 2018 **Scientific Committee Member** of the 4th International Conference on Fuzzy Systems and Data Mining, Nov. 16-19<sup>th</sup>, 2018, Bangkok, Thailand  
 2016 **Scientific Committee Member** of the European Space Agency (ESA)’s Living Planet Symposium, Prague, Czech Republic

### ΣΥΜΜΕΤΟΧΗ ΣΤΗΝ ΔΙΟΡΓΑΝΩΣΗ ΕΞΕΙΔΙΚΕΥΜΕΝΩΝ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΕΝΟΤΗΤΩΝ ΣΕ ΔΙΕΘΝΗ ΣΥΝΕΔΡΙΑ (ενδεικτική αναφορά)

- 2022 **Convener** of the WISPERS 2022, session entitled “Hyperspectral remote sensing new missions and novel applications in the natural environment”, Rome, Italy

2021	<b>Co-Convener</b> of session “Impact of climate change on agriculture”, European Geosciences Union, Vienna, Austria. Session.
2021	<b>Co-Convener</b> of session “Novel methods and applications of satellite and aerial time series imagery”, European Geosciences Union, Vienna, Austria.
2020	<b>Co-Convener</b> of session “Satellite Remote Sensing for Hydrological Applications”, Asia Oceania Geosciences Society (AOGS), Annual Conference, Hongcheon, Session.
2019	<b>Convener</b> of session “Open source software tools in Earth Observation and GIS”, at EGU2019, Vienna, Austria
2019	<b>Convener</b> of session “Advances in remote sensing data analyses for investigating nonlinear processes”, at EGU 2019, Vienna, Austria
2019	<b>Co-Convener</b> of session “Impact of climate change on agriculture”, at EGU 2019, Vienna, Austria
2018	<b>Co-Convener</b> of session “EO & GIS use in Water Resources Management”, AT THE 10 <sup>th</sup> World Congress on Water Resources & Environment, EWRA, July, 5-9 <sup>th</sup> , Athens Greece.
2016	<b>Co-Convener</b> of session “Smart Water for the Future”, 12th International Conference on Hydroinformatics, Songdo Convensia, Incheon, Korea
2014	<b>Organising Committee Member</b> of the RSPSoc, UK Annual Conference
2014	<b>Convener</b> of session “Uncertainty & Sensitivity Analysis in Geoscience”, EGU
2009 – 2015	<b>Co-Convener</b> of session “Satellite time-series analysis”, EGU, Vienna, Austria

**ΠΡΟΣΚΛΗΣΕΙΣ ΓΙΑ ΟΜΙΛΙΕΣ ΩΣ ΟΜΙΛΗΤΗΣ** (So far, I have been invited to 12 sessions in total at intern. conference and national research and educational institutions. Below are indicative examples)

2022:	<b>Solicited Talk in</b> EGU General Assembly Session : “Geoinformation Technologies in Sustainable Soil Management”, Talk Title: A methodological framework for mapping frost occurrence utilizing a cloud-based platform & geospatial data.
2022:	<b>Solicited Talk in</b> EGU General Assembly 2022, Session : «Impact of climate change on agriculture», Talk title: SimSphere: a software toolkit to facilitate teaching and research in the study of Land Surface Interactions
2019	<b>Invited Talk in Institute of Industrial &amp; Forage Crops</b> , Hellenic Agricultural Organization (HAO) DEMETER. Workshop on “Use of drones in Agriculture. Talk title: Use of Geoinformation in Agriculture, an overview”
2019	<b>Invited Talk in Technological Educational Institution (TEI) of Thessaly, Department of Technologists of Agronomists, Larissa, Thessaly.</b> Scientific lecture on 22/01 within the course of Soil Science on " <i>Applications of Geospatial Technologies in Management of the Rural Environment</i> ".
2018	<b>Invited Talk in Technical University of Athens, School of Rural &amp; Surveying Engineering, Greece</b> , UG programme Lecture with title " <i>Earth Observation in the retrievals of parameters characterizing the hydrological cycle: methods, operational products and tools for data processing &amp; analysis</i> ".

#### **ΔΗΜΟΣΙΕΥΣΕΙΣ: ΩΣ ΕΠΙΜΕΛΗΤΗΣ ΕΚΔΟΣΗΣ ΒΙΒΛΙΩΝ**

- 1) **Petropoulos, G. P., C. Chalkias, N. Myofa & C., Vradis (2022):** Elements of Cartography and Geographic Information Systems, Edition KALLIPOS, Athens, Greece, ISBN: 978-618-5667-53-5
- 2) **Bochtis, D., V. Moysiadis, G.P. Petropoulos, Y Ampatzidis & P. M. Pardalos (2022):** Information and Communication Technologies for Agriculture—Theme I: Sensors. Springer, ISBN-13: 978-3030841430
- 3) **Petropoulos, G.P. & P.K. Srivastava (2021):** *GPS and GNSS Technology in Geosciences*. Elsevier, ISBN: 9780128186176
- 4) **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

- 5) **Petropoulos, G.P. & T. Islam (2017)**: Remote Sensing of Hydrometeorological Hazards, ISBN: 978-1-4987-7758-2, Elsevier, ISBN: 978-01-4987-7758-2.
- 6) **Petropoulos, G.P. & P.K. Srivastava (2016)**: *Sensitivity Analysis in Earth Observation*, Elsevier, [in press, to be in circulation October 2016].
- 7) **Srivastava P.K., G.P. Petropoulos & Y. Kerr (2016)**: *Satellite Soil Moisture Retrieval: Techniques and Applications*, Elsevier, ISBN: 978-0-12-803388-3.
- 8) **Petropoulos G.P. (2013)**: "Remote Sensing of Energy Fluxes and Soil Moisture Content", 506 pp, Taylor and Francis. ISBN: 978-1-4665-0578-0.

**ΑΗΜΟΣΙΕΥΣΕΙΣ: ΚΕΦΑΛΑΙΑ ΣΕ ΒΙΒΛΙΑ** (in total: 37 (co-authored) book chapters published so far; full list available in my personal webpage indicative examples below from the last 4 years)

#### 2022 (in total so far)

- 1) **Tselka I., Detsikas S.E., Petropoulos, G.P., Demertzi, I. I. (2022)**, Google Earth Engine and Machine learning classifiers for obtaining burnt area cartography: a case study from a Mediterranean setting, Chapter x., pp: xx-xx, In: *Geoinformatics for Geosciences. Advanced Geospatial Analysis using RS, GIS and Soft Computing*, Publisher Elsevier, [accepted]
- 2) **Demertzi, I. I., Detsikas, S.E., Tselka, I., Petropoulos, G.P. and Karymbalis, E. (2022)**: Deposition and erosion dynamics in Axios and Aliakmonas river deltas (Greece) with the use of Google Earth Engine and geospatial analysis tools, Chapter x, pp: xx-xx, In: *Geoinformatics for Geosciences. Advanced Geospatial Analysis using RS, GIS and Soft Computing*, Publisher Elsevier [accepted]
- 3) **Detsikas S.E., Petropoulos, G.P., Lekka C., Faraslis I., (2022)**. Combining low-cost UAV imagery and machine learning to map land use/cover properties in a Mediterranean agricultural site., Chapter x, pp: xx-xx, In: "Remote Sensing in Precision Agriculture". Publisher Elsevier, [accepted]

#### 2021

- 4) **Lamprey, P. N. L., G.P. Petropoulos & P. K. Srivastava (2021)**: SMOS L4 downscaled soil moisture product evaluation over a 2-year period in a Mediterranean setting. Chapter 8, pp: 82-96 In: "Advances in Remote Sensing for Natural Resource Monitoring", edited by P. C. Pandey & L. K. Sharma, by Wiley, ISBN: 978-1119615972
- 5) **Suman, S., M.R. North, G.P. Petropoulos, P. K. Srivastava, D. Hristopulos, D. S. Fuzzo, S. Lamine, & T.N. Carlson (2021)**: Modelling Key Parameters Characterising Land Surface in 1D Space Using the SimSphere SVAT Model: Findings from its Use at European Ecosystems. Chapter 20, pp:409-444, in "Agricultural Water Management", published by Elsevier, USA", Edited by M. Gupta, P. K. Srivastava, G. Tsakiris & N. Quinn, 9780128123621, Elsevier
- 6) **Kumar, A., S. Kumar, P. L P. Saikia, P.K. Srivastava & G. P. Petropoulos (2021)**: Introduction to GPS/GNSS technology, Chapter 1, pp: 3-20, in book entitled *GPS and GNSS Technology in Geosciences*, edited by G. P. Petropoulos & P. K. Srivastava, Elsevier, ISBN: 9780128186176.

#### 2020

- 7) **Singh, P. P. C. Pandey, G.P. Petropoulos, A. Pavlidies, P.K. Srivastava, N. Koutsias, K.A. K. Deng & Y. Bao (2020)**: Hyperspectral remote sensing in precision agriculture: present status, challenges and future trends, Chapter 8, pp: 121-144, in *Hyperspectral Remote Sensing: Theory & Applications*, (eds.) Pandey, P.C., P.K. Srivastava, B. Bhattacharya & G.P. Petropoulos (2020): Elsevier, ISBN: 978-0-08-102894-0.
- 8) **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

#### 2019

- 9) **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]
- 10) **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]
  - 11) **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]
  - 12) **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”, Edited by M. Gupta, P. K. Srivastava, G. Tsakiris & N. Quinn, 9780128123621, Elsevier. [accepted].

## 2018

- 13) **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

- 14) **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.
- 15) **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.

**ΑΗΜΟΣΙΕΥΣΕΙΣ: ΑΡΘΡΑ ΣΕ ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΤΕΣ** (*in total: 114 (co-authored) journal articles to international published so far; full list available in my personal webpage -indicative examples below from the last 4 years*)

## 2022: (in total so far)

1. **Singh, R., Srivastava, P.K., Petropoulos, G.P., Shukla, S., Prasad, R. (2022):** Improvement of the “Triangle Method” for Soil Moisture Retrieval Using ECOSTRESS and Sentinel-2: Results over a Heterogeneous Agricultural Field in Northern India. *Water* 2022, 14, 3179. <https://doi.org/10.3390/w14193179> [IF: 3.530]
2. **Zhu, L., Bao, Y., Lu, Q., Fan, S.; Petropoulos, G. P.; Mao, J., Li, Y., Li, X., (2022),** "A Method for Retrieving Thermodynamic Atmospheric Profiles Using Microwave Radiometers of Meteorological Observation Networks," in *IEEE Transactions on Geoscience and Remote Sensing*, doi:10.1109/TGRS.2022.3208939
3. **Wu, Y., Bao, J., Liu, Z., Bao Y., Petropoulos, G.P. (2022),** Investigation of the Sensitivity of Microwave Land Surface Emissivity to Soil Texture in MLEM. *Remote Sensing*. 14(13):3045. <https://doi.org/10.3390/rs14133045> [IF: 5.349]
4. **Li M., Wu Y., Bao Y., Liu B., Petropoulos, G. P. (2022),** Near-Surface NO<sub>2</sub> Concentration Estimation by Random Forest Modeling and Sentinel-5P and Ancillary Data. *Remote Sensing*. 14(15):3612. <https://doi.org/10.3390/rs14153612> [IF: 8.125]
5. **Moradzadeh, M., Srivastava, P. K., Petropoulos, G. P. (2022):** Synergistic evaluation of passive microwave and optical/IR data for modelling vegetation transmissivity towards improved soil moisture retrieval. *Sensors MDPI*, 22, 1354-66, <https://doi.org/10.3390/s22041354> [IF: 3.576]
6. **Mehmood, K. S. Mushtaq, Y. Bao, S. Sadia-Bibi, M. Yaseen, M. A. Khan, M. M. Abrar, Z. Ulhassan, S. Fahad & Petropoulos, G. P. (2022):** The impact of COVID-19 pandemic on air pollution: a global research framework, challenges and future perspectives. *Environmental Science and Pollution*, <https://doi.org/10.1007/s11356-022-19484-5> in press, [IF: 4.223]
7. **Popa ,A.M., Onose ,D.A., Sandric ,I.C., Dosiadis ,E.A., Petropoulos ,G.P., Gavrilidis ,A.A., Faka ,A.**

(2022) Using GEOBIA and Vegetation Indices to Assess Small Urban Green Areas in Two Climatic Regions. *Remote Sensing.*, 14(19):4888. <https://doi.org/10.3390/rs14194888> [IF: 5.349]

8. Sandric I., R. Irmia, G. P. Petropoulos, A. Anand, P.K. Srivastava, A. Pesolanu, I. Faraslis, D. Stateras & D. Kalivas (2022): Tree's detection and heath assessment from ultra-high resolution UAV imagery and deep learning. *Geocarto International*, <https://www.tandfonline.com/doi/full/10.1080/10106049.2022.2036824>, in press, [IF: 4.889]
9. Markogianni, V., D. Kalivas, G.P. Petropoulos & E. Dimitriou (2020): Modelling of Greek lakes water quality using Earth Observation in the framework of the water framework directive (WFD). *Remote Sensing, MDPI*, 14, 739-770, <https://www.mdpi.com/2072-4292/14/3/739> [IF: 4.848]

#### 2021:(in total were published 19 journal articles)

10. Carlson, T.N, A. A. Person, T.J. Canish & G. P. Petropoulos (2021): A Downloadable Soil vegetation Atmosphere Transfer (SVAT) model for Teaching and Research, *Bulletin of the American Meteorological Society*, in press, <https://doi.org/10.1175/BAMS-D-20-0296.1> [IF: 8.766]
11. Gupta, A., P. K. Srivastava, G. P. Petropoulos & P. Singh (2021): Statistical Unfolding Approach to Understand Influencing Factors for Taxol Content Variation in High Altitude Himalayan Region. *Forests, MDPI*, <https://www.mdpi.com/1999-4907/12/12/1726> [IF: 2.634]
12. Dorigo, W., Himmelbauer et al. (2021): The international Soil Moisture network: serving Earth system science for over a decade. *Hydrology Earth System Science*, 25, 5749-5804, <https://hess.copernicus.org/articles/25/5749/2021>, [IF: 5.748]
13. Howells, D.O., G. P. Petropoulos, P. K. Srivastava & D. Triantakostas (2021): Exploring the potential of SCAT-SAR SWI for soil moisture retrievals at selected COSMOS-UK sites. *Intern. Journal of Remote Sensing*, 42 (23), 9146-9160, <https://doi.org/10.1080/01431161.2021.1988185> [IF: 2.899]
14. Srivastava, P.K. G. P. Petropoulos, R. Prasad & D. Triantakostas (2021): Random Forests with Bagging and Genetic Algorithms coupled 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: 2.976]
15. 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]
16. 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]
17. 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]
18. 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]
19. 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]
20. 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]

#### 2020 (selection only)

- 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.org/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) **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].
- 5) **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].
- 6) **Petropoulos, G.P., Maltese, A., Carlson, T.N., Provenzano, G., Pavlides, A., Ciruolo, 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].
- 7) **Petropoulos, G.P., Sandric, I., Hristopulos, D. and T.N., Carlson, (2020):** Evaporative fluxes and Surface Soil Moisture Retrievals in a Mediterranean setting from Sentinel-3 and the "simplified triangle". *Remote Sensing MDPI*, 12(19), 3192; <https://doi.org/10.3390/rs12193192> [IF: 4.509].
- 8) **Wu, Y., M. Li, Y. Bao & G.P. Petropoulos (2020):** Cross-Validation of Radio-Frequency-Interference Signature in Satellite Microwave Radiometer Observations over the Ocean. *Remote Sensing MDPI*, 12, 3433-3463, doi:10.3390/rs12203433. [IF: 4.509].

#### 2019 (selection only)

- 9) **Silva-Fuzzo, D., T.N. Carlson, N. Kourgialas & G.P. Petropoulos (2019):** Coupling Remote Sensing with a water balance model for soybean yield predictions over large areas. *Earth Science Informatics*, doi.org/10.1007/s12145-019-00424-w [IF: 1.525].
- 10) **Wu, Y., B. Qian, Y. Bao, M. Li, G.P. Petropoulos, X. Liu & L. Li (2019):** Microwave land emissivity over the Qinghai-Tibetan plateau using FY-3B MWRI measurements. *Remote Sensing MDPI*, 11, 2206, 1-16, doi:10.3390/rs11192206 [IF: 4.118].
- 11) **Shao, M. Y. Bao, G.P. Petropoulos & H. Zhang (2019):** A two-season impact study of radiative forced tropospheric response to stratospheric initial conditions inferred from satellite radiance assimilation. *Climate MDPI*, 7, 114, 1-11, doi:10.3390/cli7090114 [IF: 1.950] .
- 12) **Pandey, P. C., N. Koutsias, G.P. Petropoulos, P.K. Srivastava & E.B. Dor (2019):** Land Use/Land Cover in view of Earth Observation: Data Sources, Input Dimensions and Classifiers -a Review of the State of the Art". *Geocarto International*, [IF: 2.365].
- 13) **Wu, Y., B. Qian, Y. Bao, M. Li, G.P. Petropoulos, X. Liu & L. Li (2019):** Detection and analysis of C-band radio frequency Interference in AMSR2 data over land. *Remote Sensing MDPI*, 11, 1228, 1-19, doi:10.3390/rs11101228 [IF: 4.118].
- 14) **Bridges, J. G.P. Petropoulos & N. Clerici (2019):** Immediate Change in Organic Matter and Plant available nutrients of Haplic Luvisol soils following different experimental burning intensities in Damak Forest, Hungary (2019). *Forests MDPI*, 10(5), 453 DOI: 10.3390/f10050453 [IF: 2.116].
- 15) **Deng, K.A.K., S. Lamine, A. Pavlides, G.P. Petropoulos, Y. Bao, P.K. Srivastava, & Y. Guan (2019):** Large Scale Operational Soil Moisture Mapping from Passive MW Radiometry: SMOS product evaluation in Europe & USA. *International Journal of Applied Earth Observation & Geoinformation*, 80, 206-217, DOI: 10.1016/j.jag.2019.04.015 [IF: 4.846].
- 16) **Dawson, R., G.P. Petropoulos, L. Toullos & P.K. Srivastava (2019):** Mapping and Monitoring of the Land Use/Cover Changes in the Wider Area of Itanos, Crete, Using Very High Resolution EO Imagery With Specific Interest in Archaeological Sites. *Environment, Development and Sustainability*, DOI: 10.1007/s10668-019-00353-0 [IF: 1.676].
- 17) **Srivastava, P.K., P. C. Pandley, G.P. Petropoulos, N. K. Kourgialas, S. Pandley & U. Singh (2019):** GIS and remote sensing aided information for soil moisture estimation: A comparative study of interpolation technique. *Resources MDPI*, [in press].

- 18) **Cass, A., G.P. Petropoulos, K.P. Ferentinos, A. Pavlides & P.K. Srivastava (2019):** Exploring the synergy between Landsat and ASAR towards improving thematic mapping accuracy of optical EO data. *Applied Geomatics*, doi: 10.1007/s12518-019-00258-7 [in press], [IF: 0.733].
- 19) **Carlson, T.N. & G.P. Petropoulos (2019):** A New Method for Estimating of Evapotranspiration and Surface Soil Moisture from Optical and Thermal Infrared Measurements: The Simplified Triangle. *International Journal of Remote Sensing*, [in press], [IF: 1.782].
- 20) **Deng, K.A.K., S. Lamine, A. Pavlides, G.P. Petropoulos, P.K. Srivastava, Y. Bao, D. Hristopoulos & V. Anagnostopoulos (2019):** Operational Soil Moisture from ASCAT in Support of 2 Water Resources Management. *Remote Sensing MDPI*, [in press], [IF: 3.406]
- 21) **Bao, Y. L. Zhu, Q. Guan, Y. Guan, Q. Lu, G.P. Petropoulos, H. Che, G. Ali, Y. Dong, Z. Tang, Y. Gu, W. Tang & Y. Hou (2019):** Assessing the impact of Chinese FY-3/MERSI AOD Data Assimilation on Air Quality Forecasts: Sand Dust Events in Northeast China, *Atmospheric Environment*, S1352-2310(19)30118-9, DOI: 10.1016/j.atmosenv.2019.02.026 [in press], [IF: 3.708]

#### 2018 (selection only)

- 22) **Brown, R.A, G. P. Petropoulos & K. Ferentinos (2018):** Appraisal of the Sentinel-1 & 2 use in a large-scale wildfire assessment: A case study from Portugal's fires of 2017. *Applied Geography*, 100, 78-89 [IF: 3.117]
- 23) **Amos, C, G.P. Petropoulos & K. P. Ferentinos (2018):** Determining the use of Sentinel-2A MSI for wildfire burning and severity detection. *International Journal of Remote Sensing*, DOI: 10.1080/01431161.2018.1519284, in press [IF: 1.782]
- 24) **Petropoulos, G.P., P.K. Srivastava, K.P. Ferentinos & D. Hristopoulos (2018):** Evaluating the capabilities of optical/TIR imagine sensing systems for quantifying soil water content. *Geocarto International*, in press [1.759]
- 25) **Banerjee, R., P.K. Srivastava, A.W.G. Pike & G. P. Petropoulos (2018):** Identification of painted rock-shelter sites using GIS integrated with a Decision Support system and Fuzzy Logic. *International Journal of Geo-Information*, 7, 326-386, doi:10.3390/ijgi7080326 [IF: 1.723].
- 26) **Evans, A., S. Lamine, D. Kalivas & G.P. Petropoulos (2018):** Exploring the Potential of EO data and GIS for Ecosystem Health Modelling in Response to Wildfire: a Case Study in Central Greece. *Environmental Engineering & Management*. [in press], [IF: 1.096]
- 27) **Markogianni, V., D. Kalivas, G. P. Petropoulos & E. Dimitriou (2018):** An Appraisal of the Potential of Landsat 8 in Estimating Chlorophyll-a, Ammonium Concentrations and Other Water Quality Indicators. *Remote Sensing MDPI*, 10, 1-22, doi:10.3390/rs10071018 [IF: 3.406]
- 28) **Colson, D., G.P. Petropoulos & K. Ferentinos (2018):** Exploring the Potential of Sentinels-1 & 2 of the Copernicus Mission in Support of Rapid and Cost-effective Wildfire Assessment. *International Journal of Applied Earth Observation & Geoinformation*, 73, 262-276, doi.org/10.1016/j.jag.2018.06.011 [IF: 3.930]
- 29) **Bao, Y., L. Lin, S. Wu, K.A.K. Deng & G.P. Petropoulos (2018):** Surface Soil Moisture Retrievals Over Partially Vegetated Areas From the Synergy of Sentinel-1 & Landsat 8 Data Using a Modified Water-Cloud Model. *International Journal of Applied earth Observation & Geoinformation*, 72, 76-85, /doi.org/10.1016/j.jag.2018.05.026 [IF: 4.003]
- 30) **Whyte, A., K. Fredinos & G.P. Petropoulos (2018):** A New Synergistic Approach for Monitoring Wetlands Using Sentinels -1 and 2 data With Object-based Machine Learning Algorithms. *Environmental Modelling & Software*, 104, 40-57, doi.org/10.1016/j.envsoft.2018.01.023 [IF:4.177].
- 31) **Petropoulos, G.P., P.K. Srivastava, M. Piles & S. Pearson (2018):** EO-based Operational Estimation of Soil Moisture and Evapotranspiration for Agricultural Crops in Support of Sustainable Water Management. *Sustainability MDPI*, 10, 181-1-20, doi:10.3390/su10010181 [IF: 2.075]
- 32) **Lamine, S. G.P. Petropoulos, S.K. Singh, S. Szabo, N Bachari, P.K. Srivastava & S. Suman (2018):** Quantifying Land Use/land Cover Spatio-temporal Landscape Pattern Dynamics from Hyperion Using SVMs Classifier and FRAGSTATS. *Geocarto International*, 33:8, 862-878, doi.org/10.1080/10106049.2017.1307460 [IF: 1.370]

#### 2017 (selection only)

- 33) **Chatziantoniou, A. G.P. Petropoulos & E. Psomiadis (2017):** Co-Orbital Sentinel 1 and 2 for LULC Mapping with Emphasis on Wetlands in a Mediterranean Setting Based on Machine Learning. *Remote Sensing*, 9, pp: 1-18, doi.org/10.1080/10106049.2017.1307460 [IF: 3.244]
- 34) **Anagnostopoulos, V. & Petropoulos, G.P. (2017):** A Modernized Version of a 1D Soil Vegetation Atmosphere Transfer model for Use in Land Surface Interactions Studies. *Environmental Modelling & Software*, 90 pp. 147-156. doi.org/10.1016/j.envsoft.2017.01.004 [ IF: 4.207]
- 35) **Srivastava, P.K., D. Han, A. Yaduvanshi, G. P. Petropoulos, S. K. Singh, R. K. Mall & R. Prasad (2017):** Reference Evapotranspiration Retrievals From a Mesoscale Model Based Weather Variables for Soil Moisture Deficit Estimation. *Sustainability*, 9, 1971-88, doi:10.3390/su9111971 [IF: 2.075]

**ΑΗΜΟΣΙΕΥΣΕΙΣ: ΣΥΜΜΕΤΟΧΗ ΣΕ ΔΙΕΘΝΗ ΣΥΝΕΔΡΙΑ ΜΕ ΚΡΙΤΕΣ** (in total: +120 contributions. Below contributions during 2020 & 2021 only), full list available in my web page)

**2021:**

- 1) **Piles, M. M. P. Hernandez, M. Vall-llossera, G. Portal, I. Sandric, G.P. Petropoulos, and D. Hristopulos (2021):** Synergistic use of SMOS and Sentinel-3 for retrieving spatiotemporally estimates of surface soil moisture and evaporative fraction. European Geosciences Union (vEGU), April 19-30th, 2021, [online conference]
- 2) **Zhuang, R. S. Manfreda, Y. Zeng, N. Romano, E. Ben Dor, A. Maltese, P. Nasta, N. Francos, F. Capodici, A. Paruta, G. Ciraolo, B. Szabó, J. Mészáros, G.P. Petropoulos, L. Zhang, and Z. Su (2021):** UAS Based Soil Moisture Downscaling Using Random Forest Regression Model. European Geosciences Union (vEGU), April 19-30th, 2021, [online conference]
- 3) **Tselka, I. I. Isis Demertzi, and G. P. Petropoulos (2021):** Investigating the effects of COVID-19 to crime rates through a geospatial approach: the case of New York, USA. European Geosciences Union (vEGU), April 19-30th, 2021, [online conference]
- 4) **Lekka, C., G. P. Petropoulos, D. Triantakonstantis, S. Detsikas, and C. Chalkias (2021):** Geoinformation in support of sustainable soils' management to strengthen resilience under the pressure of climate change, European Geosciences Union (vEGU), April 19-30th, 2021, [online conference]
- 5) **Vidalis-Kelagiannis, M., K. Kalogeropoulos, G. Grigorakis, N. Stathopoulos, G.P. Petropoulos, C. Chalkias & A. Tsatsaris (2021):** From planning to application of UAVs in archaeology: Empirical evidence from Cephalonia isle, Greece. Drones & ROVs 2021, February 25-26th, 2020, [online conference], London, UK

**2020:**

- 6) **Petropoulos, G.P., Maltese, A., Carlson, T.N., Provenzano, G., Pavlides, A., Ciraolo, G., Hristopulos, D., Capodici, F., Chalkias, C., Dardanelli, G. & S. Mandreda (2020):** Soil water content and evaporative fraction from UAV imagery: results from a case study in a Mediterranean setting. Drones & ROVs 2021, February 25-26th, 2020, [online conference] London, UK
- 7) **Petropoulos, G.P., D. Hristopulos & I. Sandric (2020):** Retrievals of parameters characterising land surface interactions from the satellite-derived Ts/VI feature space. European Geosciences Union (EGU), May 4-8<sup>th</sup>, 2020, Vienna, Austria.