

# Dr George P. Petropoulos

## Short Curriculum Vitae



Researcher Unique Identifiers: **IRCID:** [orcid.org/0000-0003-1442-1423](https://orcid.org/0000-0003-1442-1423), **ResearcherID:** [F-2384-201](https://pubs.acs.org/doi/10.1021/acs.chemlett.3c00001),  
**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 POSITION

2020 – Now *Assistant Professor in Geoinformatics*– Dept. 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 geoinformation algorithms and products
- Operational use, products and applications of geoinformation

### PROFESSIONAL EXPERIENCE

2018 – Now *Marie Curie Fellow* – Technical University of Crete, Department of Mineral Resources Engineering, Chania, Crete, Greece  
2016 – 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

## INSTITUTIONAL MANAGEMENT RESPONSIBILITIES

2016 - 2018	<b>Recruitment &amp; Employability Coordinator</b> of MSc programmes of AU/DGES
2016 - 2018	<b>ERASMUS &amp; Intern. Exchanges Coordinator</b> for AU/DGES UG degrees
2016 - 2018	<b>Degree Scheme Leader</b> for the UG Geography (Science) of AU/DGES
2012 - 2018	<b>Degree Scheme Leader</b> for the MSc programmes of AU/DGES

## RESEARCH STUDENTS SUPERVISION (completed PhD's only)

<b>Khidir Abdalla</b>	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.
<b>Kwal Deng</b>	
<b>Salim Lamine</b>	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.
<b>Joshua Jones</b>	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.
<b>Rebecca Charnock</b>	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-present	<b>Marie Curie Individual Fellowship (IF)</b> , project "ENVISION-EO" (top 4.01% score)
2015	<b>Senior Fellow</b> awarded from the UK's Higher Education Academy (HEA) in recognition of my teaching contribution and impact outside of a UK academic institute
2014	<b>Research Scientist Visitor at the NASA's Hydrology Group</b> , Goddard, USA.
2013	<b>Marie Curie Reintegration Grant (GIG)</b> , project TRANSFORM-EO" (top 9% score)
2010	<b>European Space Agency (ESA) award</b> 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	<b>Honorary Research Fellow</b> , Dept. of Earth Sciences, Bristol University, UK
2009	<b>Postdoctoral Research Fellowship</b> obtained from the Ministry of Education, Greece
2002	<b>Postgraduate Studies Scholarship</b> obtained from the Greek Scholarships Foundation (IKY) to pursue postgraduate studies (MSc, PhD) in the field of Earth Observation/GIS

## RESEARCH PROJECTS (list not exhaustive)

2018	<b>COST Action</b> "Optical synergies for spatiotemporal sensing of scalable ecophysiological traits" (CA17134), EU-funded project. Duration: 4 years. My role: Management Committee member
2018	<b>Newton Fund Research Partnerships, UK-Indonesia call for proposals.</b> 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	<b>Marie Curie Individual Fellowship: ENViSioN-EO.</b> 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	<b>Newton Fund, NSFC Agritech, UK:</b> "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.*

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

- 2020 **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*

### **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), Remote Sensing MDPI, Fires (MDPI) & Journal of Applied Remote Sensing (SPIE)*
- 2017 – Now **Editorial Board Member:** *Applied Geography, GIScience & Remote Sensing, Remote Sensing Applications: Society & Environment, Environmental Modelling & Software, 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*

### **ORGANISATION OF SCIENTIFIC MEETINGS** *(indicative examples)*

- 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 13-17<sup>th</sup>, 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)

- 2019 *Convener* of session "Open source software tools in Earth Observation and GIS", at EGU2019, 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 10<sup>th</sup> World Congress on Water Resources & Environment, EWRA, July, 5-9<sup>th</sup>, 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
- 2009 – 2015 *Co-Convener* of session "Satellite time-series analysis", EGU, Vienna, Austria

### **PUBLICATIONS: EDITED BOOKS**

- 1) **Pandley, P.C., P.K. Srivastava, H. Baltzer, B. Bhattagarya & G.P. Petropoulos (2020):** *Hyperspectral Remote Sensing: Theory & Applications*. Elsevier, ISBN: 978-0-08-102894-0
- 2) **Petropoulos, G.P. & T. Islam (2017):** *Remote Sensing of Hydrometeorological Hazards*, ISBN: 978-1-4987-7758-2, Elsevier, ISBN: 978-01-4987-7758-2.
- 3) **Petropoulos, G.P. & P.K. Srivastava (2016):** *Sensitivity Analysis in Earth Observation*, Elsevier, [in press, to be in circulation October 2016].
- 4) **Srivastava P.K., G.P. Petropoulos & Y. Kerr (2016):** *Satellite Soil Moisture Retrieval: Techniques and Applications*, Elsevier, ISBN: 978-0-12-803388-3.
- 5) **Petropoulos G.P. (2013):** "Remote Sensing of Energy Fluxes and Soil Moisture Content", 506 pp, Taylor and Francis. ISBN: 978-1-4665-0578-0.

### **PUBLICATIONS: BOOK CHAPTERS** (in total: +25chapters; book chapters published so far; full list available in my personal webpage or [ResearcherID](#))

2020

- 1) **Howells, O. G.P. Petropoulos & Z. Ioannou (2020):** Evaluating the Potential for National Coverage of Soil Moisture Monitoring using Remote Sensing. Chapter 8, pp: xx-xx, to appear in "Agricultural Water Management", Academic Press, Elsevier, ISBN: 9780128123621, Edited by Gupta, M., P.K. Srivastava, G. Tsakiris & N. Quinn [in press]
- 2) **Suman, S., M.R. North, G.P. Petropoulos, P. K. Srivastava, J.P. McCalmont, D. S. Fuzzo, S. Lamine, L. Toullos & T. Carlson (2020):** Modelling Key Parameters Characterising Land Surface in 1D Space Using the SimSphere SVAT Model: Findings From its Use at European Ecosystems. Chapter 9, pp: xx-xx, in "Agricultural Water Management", published by Elsevier, USA", Edited by M. Gupta, P. K. Srivastava, G. Tsakiris & N. Quinn, 9780128123621, Elsevier [in press]
- 3) **Anand, A., P. Singh, Srivastava, P. K., A. & G.P. Petropoulos (2020).** GIS based analysis for soil moisture estimation via co-kriging with external drift Interpolation method. Chapter 18, pp: xx-xx, in "Agricultural Water Management", published by Elsevier, USA", Edited by M. Gupta, P. K. Srivastava, G. Tsakiris & N. Quinn, 9780128123621, Elsevier [in press]

2019

- 1) **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]

- 2) **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]
- 3) **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]
- 4) **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

- 5) **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

- 6) **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.
- 7) **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: +85 journal papers; all journal papers available in my personal webpage or [ResearcherID](#))

#### 2020

- 1) **Zhu, L. Y. Bao, G.P. Petropoulos, P. Zhang, F. Lu, Q. Lu, Y. Wu & D. Xu (2020):** Temperature and Humidity Profiles Retrieval in a Plain Area from Fengyun-3D/HIRAS Sensor Using a 1D-VAR Assimilation Scheme. *Remote Sensing MDPI*, 12, 435; doi:10.3390/rs12030435 [IF: 4.118].
- 2) **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: 2.524].
- 3) **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: 4.118].

#### 2019

- 1) **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].
- 2) **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].
- 3) **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] .
- 4) 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].
  - 5) **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].
  - 6) **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].
  - 7) **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].
  - 8) **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].
  - 9) **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].
  - 10) **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].
  - 11) **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].
  - 12) **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]
  - 13) **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

- 14) **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]
- 15) **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]
- 16) **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]
- 17) **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].
- 18) **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]
- 19) **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]
- 20) **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]
  - 21) **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]
  - 22) **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].
  - 23) **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]
  - 24) **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

- 25) **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]
- 26) **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]
- 27) **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]

## **PUBLICATIONS: CONTRIBUTIONS TO INTERNATIONAL CONFERENCES (in total: +100 contributions. Indicative list below)**

- 1) **Petropoulos, G.P., P. Partsinevelos & D. Hristopulos (2019):** ENVISioN-EO: Developing Innovative Methodologies, Land Biosphere Modelling Tools and EO Products to Increase our Capability to Model Land Surface Processes. ESA's Living Planet Symposium, 2019, May, 13-17th, 2019, Milan, Italy
- 2) **Whyte, A., G.P. Petropoulos & K. P. Ferentinos (2019):** Wetlands Mapping from Sentinel Optical & Radar Data and Machine Learning. ESA's Living Planet Symposium, 2019, May, 13-17th, 2019, Milan, Italy.
- 3) **Silva-Fuzzo, D.F., T.N Carlson, N. N. Kourgialas & G.P. Petropoulos (2019):** A Remote Sensing Technique for estimating soybean yield over large spatial scales. European Geosciences Union (EGU), April 7-12th, 2019, Vienna, Austria.
- 4) **O'Connor, J. & G.P. Petropoulos (2019):** An Open Source Platform for Utilising EO Data products from the Sentinel Missions in Support of Sustainable Agriculture in Greece. European Geosciences Union (EGU), April 7-12th, 2019, Vienna, Austria.
- 5) **Petropoulos, G.P., V. Anagnostopoulos, D. Hristopulos & P. Partsinevelos (2019):** An open source land biosphere model extended for use with EO data in deriving key biophysical parameters. European Geosciences Union (EGU), April 7-12th, 2019, Vienna, Austria.
- 6) **Lamine, S., K. A. Kwal-Deng, A. Pavlides, P.K. Srivastava, Y. Bao, D. Hristopulos & G.P. Petropoulos (2019):** Operational Surface Soil Moisture Products in Support of Sustainable Water

