Stefanos Papaiordanidis

Forester - Environmental Scientist

CONTACT INFORMATION

Address: Kriezotou 19, 54645, Thessaloniki, Greece
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PERSONAL INFORMATION

Date of Birth: 19/01/1988
Nationality: Greek

EDUCATION

6/2020 – Present

PhD Student in Faculty of Forestry and Natural Environment
Aristotle University of Thessaloniki, Greece
Supervisor: Professor Ioannis Gitas

10/2017 – 10/2019

MSc: Faculty of Forestry and Natural Environment Post-Graduate Program
Department: Planning and Development of Natural Resources
Laboratory of Forest Management and Remote Sensing (FMRS)
Faculty of Forestry and Natural Environment, Aristotle University of Thessaloniki, Greece
Thesis: **"Long-term monitoring of natural ecosystems using time series analysis of satellite imagery"**
Supervisor: Professor Ioannis Gitas
Grade: **9.41/10**

9/2005 – 7/2017

Integrated Master's degree in Forestry and Natural Environment,
Department: Planning and Development of Natural Resources
Faculty of Forestry and Natural Environment, Aristotle University of Thessaloniki, Greece
Thesis: **"Evaluation of spectral indices in burned area mapping using object-based image analysis"**
Supervisor: Professor Ioannis Gitas
Grade: **6.88/10**

SUMMER SCHOOL

10/2018

In **Peoples' Friendship University of Russia** and in cooperation with: *Federal State Autonomous Institution of Higher Education, Agrarian Technological Institute and Aristotle University of Thessaloniki, School of Agriculture, Forestry and Natural Environment*
Title: *"Smart Agriculture"* (ICT 18)

CONFERENCES

10/2019

"Evaluation of satellite time series spectral and temporal segmentation methods for fire disturbance detection and mapping" at ***"12th EARSeL Forest Fires SIG Workshop"*** in CNR (National Research Council) headquarters in Rome, Italy.

4/2017

"Evaluation of spectral indices in burned area mapping using object-based image analysis" at 4th conference: **"*Students for Agriculture: Organic Farming – Remote Sensing*"** in RUDN University in Moscow, Russia.

PUBLICATIONS

Dokuchaev Soil Bulletin

Papaiordanidis, S., I.Z. Gitas, T. Katagis (2019) "Soil erosion prediction using the Revised Universal Soil Loss Equation (RUSLE) in Google Earth Engine (GEE) cloud-based platform", *Dokuchaev Soil Bulletin,* V. 100, pp. **36-52**, DOI: 10.19047/0136-1694-2019-100-36-52

GeoScience Scientific journal (Cover)

Papaiordanidis, S., M. Tompoulidou, P. Lefakis, I.Z. Gitas (2017) "Evaluation of spectral indices efficiency in burned area mapping using object-based image analysis", *GeoScience,* Issue №2 -2017 pp. **65-72**.
https://www.researchgate.net/publication/320182797_EVALUATION_OF_SPECTRAL_INDICES_EFFICIENCY_IN_BURNED_AREA_MAPPING_USING_OBJECT-BASED_IMAGE_ANALYSIS

PROFESSIONAL EXPERIENCE

5/2020

Epsilon Malta Ltd.
SIM4NEXUS: Qualifies the water-energy-land-food and climate nexus for resource efficiency (*EU funded project*) – Forester - Environmental Scientist

- Services for the production, delivery, and reporting of SIM4NEXUS – Space
- Appropriate satellite data products collection

- Image analysis and geoprocessing
- Testing existing algorithms with new data and evaluation of the results

4/2019 – 4/2020 *Aristotle University of Thessaloniki*

ARTEMIS: Development of practices and establishment of standardized monitoring service of economic forests (*EU funded project*) – Forester - Environmental Scientist

- Production of vegetation cartographic products
- Satellite data collection
- Geometric and atmospheric correction of satellite imagery
- Collection and preparation of auxiliary geospatial data
- Literature review on vegetation indices and timeseries analysis techniques
- Participation in integrating timeseries preprocessing subsystems to the platform
- Validation and application of automated analysis techniques

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TECHNICAL SKILLS

Software **Google Earth Engine, ArcMap, QGIS, Autocad, ERDAS Imagine, eCognition, ENVI, SPSS, MS Office**

Programming **Python, R**

RESEARCH INTERESTS

Machine Vision:

- Image processing
- Image classification and segmentation
- Convolutional Neural Networks

Satellite Remote Sensing:

- Time series analysis
- Land cover mapping
- Species mapping

Forest Management:

- Climate Change
- Forests as complex systems
- Adaptive management

LANGUAGES

Greek Native speaker

English Excellent (C2) University of Cambridge: Certificate of Proficiency in English

OTHER SKILLS

Driving license Car (type 2)

ADDITIONAL PROFESSIONAL EXPERIENCE

7/2005 – 7/2012 Office assistant
(Lawyer's office – Anastasia Spyridou, judicial commissary's office – Christos Romanos)

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Thessaloniki, 3 May 2020