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 jstavrak (**Teams**)

ABOUT ME

Assistant Professor in the School of Forestry and Natural Environment at the Aristotle University of Thessaloniki (AUTH), the field of "Geographic Information Systems and Remote Sensing in Forest Ecosystems." I received my BSc (with integrated Masters) and PhD degrees from the School of Electrical and Computer Engineering at AUTH. From 2014 to 2023, I worked as a postdoctoral researcher at the Laboratory of Forest Management and Remote Sensing at AUTH. Through my participation in many European and national research programs and projects, I have gained expertise—among other things—in the use of modern Remote Sensing and Geographic Information System (GIS) in research and applications related to wildfires management, mapping land cover / land use and detecting their changes, and postfire monitoring of natural ecosystems.

WORK EXPERIENCE

● **School of Forestry and Natural Environment, Aristotle University of Thessaloniki** Thessaloniki, Greece

Assistant Professor

29/06/2023 – Current

Teaching, conducting research, implementation of research projects.

● **Laboratory of Forest Management and Remote Sensing, Aristotle University of Thessaloniki** Thessaloniki, Greece

Postdoc researcher / Research fellow

2013 – 2023

Conducting research and participation in the administration and implementation of national and European projects.

● **Institute of Plant Breeding and Genetic Resources — Hellenic Agricultural Organization "DEMETER"** Thessaloniki, Greece

Research fellow

2015 – 2023

Conducting research and participation in the administration and implementation of national and European projects.

EDUCATION AND TRAINING

● **14/12/2005 – 22/04/2013** Thessaloniki, Greece

● **PhD Degree in Electrical and Computer Engineering** Aristotle University of Thessaloniki, School of Electrical and Computer Engineering

Address Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece |

Website <https://www.auth.gr/en/> | **Field of study** Electricity and energy , Electronics and automation | **Final grade** "Excellent" | **Level in EQF** EQF level 8 |

Thesis Methodologies for developing fuzzy classification systems using evolutionary algorithms: Application to high-dimensional classification tasks

Link <http://hdl.handle.net/10442/hedi/39930>

● **2000 – 2005** Thessaloniki, Greece

● **Degree in Electrical and Computer Engineering (B.S. & M.S.)** Aristotle University of Thessaloniki, School of Electrical and Computer Engineering

Address Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece |

Website <https://www.auth.gr/en/> | **Field of study** Electricity and energy , Electronics and automation | **Final grade** 7.17 / 10 ("Very Good") | **Level in EQF** EQF level 7 |

Thesis Time-series simulation and modeling using recurrent neuro-fuzzy networks

Link <http://ikee.lib.auth.gr/record/290109>

TEACHING EXPERIENCE

29/06/2023 – CURRENT

Assistant Professor

Independent teaching of courses as Assistant Professor at AUTH's School of Forestry and Natural Environment of the Aristotle University of Thessaloniki:

- Undergraduate courses: "Geographic Information Systems – Geospatial analysis", "Forest Aerial Photography – Remote sensing", "Remote sensing of environment – Applications".
- Master courses at the MSc "Natural Resources: Monitoring, Technology and Bioeconomy": "Technologies for Natural Resources Monitoring", "Applied Spatial Analysis and Decision Making Systems".

2020 – 2022

Teaching fellow

Teaching Fellow at the School of Forestry and Natural Environment of the AUTH, for the lessons "Environmental Geographic Information Systems", "Environmental Remote Sensing" and "Forest Aerial Photography".

2014 – 2023

Teaching fellow

Teaching fellow (School of Electrical and Computer Engineering, Aristotle University of Thessaloniki) in the "[Inter departmental / Interdisciplinary Postgraduate Programme on Advanced Computer and Communication Systems](#)" for the course "Computation Intelligence — Bio-inspired Systems".

INTERESTS

Research Interests

Geographic Information Systems (GIS), remote sensing, image processing, pattern recognition, machine learning, computational intelligence, environmental monitoring, remote sensing and GIS applications in forestry

SKILLS

PROGRAMMING LANGUAGES & TOOLS

C++ | Python | Matlab | C | Git/ GitHub | Docker

OPERATING SYSTEMS

Linux | Microsoft Windows | Bash shell script

OFFICE APPLICATIONS

LaTeX | LibreOffice | Microsoft Office

SPECIALIZED SOFTWARE ON REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS

QGIS | GDAL | Google Earth Engine | ArcGIS | ENVI | PCI Geomatica | ERDAS

PARTICIPATION IN RESEARCH PROJECTS

2013 – CURRENT

Summary

- Participation as Team Member in **more than 15** European and national research projects, with various responsibilities (implementation, participation in coordination/management, preparation of deliverables, scientific paper writing, software development).
- Participation in the implementation and management of operational services.
- Participation in dissemination and technology update actions.

Indicative list of projects:

- **The Golden Twins** [2024 – Current]; *European Space Agency (ESA) InCubed programme*; <https://thegoldentwins.eu>.
- **Sat4Forest — Greek National Satellite Space Project: Axis 3 – Forest Monitoring Service** [2024 – Current]; *Ministry of Digital Governance, Part of Axis 3 of the Greek National Small-Sats Programme, funded through the National Recovery and Resilience Plan "Greece 2.0" and implemented with the assistance of the Hellenic Space Center and the European Space Agency (ESA).*
- **Greek Observatory of Forest Fires (gOFFi) — Investigation of the potential application of modern technologies in forest fire prevention and analysis of post-fire vegetation growth, with pilot**

implementation [2020 – Current]; *Directorate General of Forests and Forest Environment, Hellenic Ministry of Environment and Energy*; <https://goffi.web.auth.gr>.

- **FirEUrisk — Developing a Holistic, Risk-Wise Strategy for European Wildfire Management** [2021 – 2025]; *European Union's Horizon 2020 research and innovation programme* ([Grant Agreement no. 101003890](https://fireurisk.eu)); <https://fireurisk.eu>.

PUBLICATIONS

Summary

- Author/co-author of **80** scientific papers
- **Citations:** Scopus 1061, Web of Science 841, Google Scholar 1490
- **h-index:** Scopus 19, Web of Science 17, Google Scholar 22

More: <https://scholar.google.com/citations?user=9Plc91IAAAA>

SCHOLARSHIPS

15/02/2020 – 30/12/2021

IKY Postdoc Scholarship

- **Scholarship from the Hellenic State Scholarships Foundation (IKY)** under the subproject “Post doc Scholarships – Partnership Agreement (PA) 2014-2020 — Round B”, co-financed by Greece and the European Union (European Social Fund – ESF) through the Operational Programme “Human Resources Development, Education and Lifelong Learning 2014-2020”.
- **Research Title:** Development of tools for wildfires’ direct impact assessment on a national level using satellite data and Google Earth Engine.
- **Duration:** 15/02/2020 – 30/12/2022
- **Host institute:** Laboratory of Forest Management and Remote Sensing of AUTH

26/06/2018 – 28/01/2020

AUTH Postdoc Scholarship

- **Scholarship from the Aristotle University of Thessaloniki** under the action “Support for Researchers with Emphasis on Young Researchers — ΕΔΒΜ 34”, co-financed by Greece and the European Union (European Social Fund – ESF) through the Operational Programme “Human Resources Development, Education and Lifelong Learning 2014-2020”.
- **Subproject:** Development of an advanced algorithm and an open-source software for automated burned area mapping using high-resolution data (MIS: 5005537).
- **Duration:** 26/08/2018 – 28/01/2020
- **Host institute:** Laboratory of Forest Management and Remote Sensing of AUTH