Dimitrios Stavrakoudis

Date of birth: 10/04/1982 │ **Nationality:** Greek │ **Phone number:**

(+30) 231992689 (Work) │ **Email address:** jstavrak@for.auth.gr │ **Website:**

https://orcid.org/0000-0001-9370-5058 │ **Website:** https://fmrs.web.auth.gr │

LinkedIn: https://www.linkedin.com/in/dimitris-stavrakoudis-494648109/ │ **Twitter:**

https://twitter.com/dstavrak │ **Skype:** jstavrak

ABOUT ME

I received my PhD in Electrical and Computer Engineer from the Aristotle University of Thessaloniki (AUTh) in 2013. In 2023 I was elected Assistant Professor in the School of Forestry and Natural Environment of AUTh, in the field of "Geographic Information Systems and Remote Sensing in Forest Ecosystems". From 2014 until 2023, I worked as a postdoc researcher / research fellow in the Laboratory of Forest Management and Remote Sensing of AUTh. I have participated in several European and national research projects, through which I have specialized—among other—in the exploitation of remote sensing and geographic information system (GIS) technologies for applications related to wildfires management, mapping land cover / land use and detecting their changes, and postfire monitoring of natural ecosystems.

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

PhD defence date: 05/03/2013
Thesis: Methodologies for developing fuzzy classification systems using evolutionary algorithms: Application to high-dimensional classification tasks
- Development of novel fuzzy classifiers for high-dimensional tasks
- Primary application: Land cover classification (including forest species discrimination) using multispectral and hyperspectral satellite imagery

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

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

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

WORK EXPERIENCE

29/06/2023 – CURRENT Thessaloniki, Greece
ASSISTANT PROFESSOR SCHOOL OF FORESTRY AND NATURAL ENVIRONMENT, ARISTOTLE UNIVERSITY OF THESSALONIKI

- Teaching of undergraduate and master's courses
- Research and algorithm development in the fields of remote sensing, GIS, pattern recognition, hyperspectral data processing, wildfires, biomass estimation, precision agriculture, image segmentation, image processing and machine learning
- Proposal writing for competitive research projects
- Scientific papers writing

15/02/2020 – CURRENT Thessaloniki, Greece
POSTDOC RESEARCHER — IKY SCHOLARSHIP HELLENIC STATE SCHOLARSHIPS FOUNDATION (IKY)

- Scholarship in the framework of "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 Subject: Development of tools for wildfires' direct impact assessment on a national level using satellite data and Google Earth Engine

26/06/2018 – 28/01/2020 Thessaloniki, Greece
POSTDOC RESEARCHER — AUTH SCHOLARSHIP LABORATORY OF FOREST MANAGEMENT AND REMOTE SENSING, ARISTOTLE UNIVERSITY OF THESSALONIKI

- Scholarship in the framework of " 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".
- Project: Development of advanced algorithm and open-source software for automated burned area mapping using high-resolution data (MIS: 5005537)

2013 – CURRENT Thessaloniki, Greece
POSTDOC RESEARCHER / RESEARCH FELLOW LABORATORY OF FOREST MANAGEMENT AND REMOTE SENSING, ARISTOTLE UNIVERSITY OF THESSALONIKI

- Participation in the administration and implementation of national and European projects
- Research and algorithm development in the fields of fuzzy systems, remote sensing, pattern recognition, hyperspectral data processing, wildfires, biomass estimation, precision agriculture, image segmentation, image processing and machine learning
- Software development
- Proposal writing for competitive research projects
- Scientific papers writing

2015 – CURRENT Thessaloniki, Greece
RESEARCH FELLOW INSTITUTE OF PLANT BREEDING AND GENETIC RESOURCES — HELLENIC AGRICULTURAL ORGANIZATION "DEMETER"

- Participation in the implementation of national and European projects
- Research and algorithm development in the fields of precision agriculture, remote sensing, and analysis of UAV data
- Software development
- Proposal writing for competitive research projects
- Scientific papers writing

2005 – 2012 Thessaloniki, Greece
YOUNG RESEARCHER LABORATORY OF AUTOMATION AND ROBOTICS, SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING, AUTH

Participation in the implementation of national and European co-funded projects, during my PhD. Primary responsibilities:
- Research and algorithm development in the fields of fuzzy systems, remote sensing, image processing and pattern recognition
- Software development
- Scientific papers writing

LANGUAGE SKILLS

Mother tongue(s):   **GREEK**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	A2	A2	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Programming languages

C++ | Python | Matlab | C

Web technologies

FastAPI | Apache Web Server | HTML | JavaScript | PHP | CSS | Wordpress

Database systems

MySQL | PostgreSQL | Redis

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

ADDITIONAL INFORMATION

TEACHING EXPERIENCE

2020 – CURRENT
Teaching fellow

Teaching fellow in the MSc Programme "Natural Resources: Monitoring, Technology and Bioeconomy" of the School of Forestry and Natural Environment of the Aristotle University of Thessaloniki for the courses:
- Natural Resource Monitoring Technologies
- Applied Spatial Analysis and Decision Making Systems

Link https://mscnaturalresources.for.auth.gr

2020 – 2022
Teaching fellow

Sole responsible for teaching the following courses in the School of Forestry and Natural Environment of the Aristotle University of Thessaloniki for the academic year 2021-2022:
- Environmental Geographic Information Systems
- Environmental Remote Sensing
- Forest Aerial Photography

Under the project "Acquisition of Academic Teaching Experience from Young Scientists Holding a PhD 2019-2022 — ΕΔΒΜ96", 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".

Link https://www.for.auth.gr

2014 – CURRENT
Teaching fellow

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

2007 – 2011
Teaching fellow

Teaching fellow (laboratory courses) in the Department of Automation of Technological Educational Institute of Thessaloniki (Greece) for the undergraduate courses:
- Intelligent Control
- Digital Signal Processing
- Automatic Control Systems I

2006 – 2010
Teaching assistant

Teaching assistant (School of Electrical and Computer Engineering, Aristotle University of Thessaloniki) for the "Computational Intelligence" course in the programme "Erasmus Mundus Scholarships, MSc in Network and e-Business Centered Computing (NeBCC)" (funded by the European Commission Directorate General for Education and Culture).

2006 – 2008
Teaching assistant

Teaching assistant in the School of Electrical and Computer Engineering of the Aristotle University of Thessaloniki, for the courses "Fuzzy Systems" and "Automatic Control Systems I".

PARTICIPATION IN RESEARCH PROJECTS

2021 – CURRENT
FirEUrisk — Developing a Holistic, Risk-Wise Strategy for European Wildfire Management

European Union's Horizon 2020 research and innovation programme (Grant Agreement no. 101003890)
- Development and software implementation of a methodology for mapping forest fuels in pilot sites using Sentinel-2 satellite imagery
- Participation in accuracy assessment process of the prevention products
- Responsible for addressing all data management issues
- Participation in scientific papers writing
- Preparation of project's deliverables

Link https://fireurisk.eu

15/02/2020 – CURRENT
FireImpactGEE: Development of tools for wildfires' direct impact assessment on a national level using satellite data and Google Earth Engine

Scholarship in the framework of "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".
- Development of fully automated algorithms for mapping burned areas, estimating fire severity, and postfire monitoring of vegetation response

- Implementation on the Google Earth Engine cloud processing service, using timeseries of Sentinel-2 and Landsat multispectral data
- Scientific papers writing
- Preparation of project's deliverables

2017 – 2021
XENIOS: A combined application platform for the protection and promotion of cultural and tourist sites

Co-financed by the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RE-SEARCH—CREATE—INNOVATE (project code: T1EDK-02219)
- Development of fire danger indices using timeseries of satellite imagery and auxiliary geospatial layers
- Remote sensing and GIS processing
- Software development of the automated services that feed the Xenios platform with the fire danger products (midterm and short-term fire danger indices)
- Participation in project coordination and dissemination action
- Preparation of project's deliverables

Link https://xenios-project.eu/en/

2018 – 2021
ARTEMIS: Development practices and establishment of standardized monitoring service of economic forests

Co-financed by the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RE-SEARCH—CREATE—INNOVATE (project code: T1EDK-01577)
- Remote sensing and GIS technologies for monitoring the health of economic forests
- Participation in project's tasks
- Preparation of project's deliverables

Link https://artemis2018.eu/en/main/

2018 – 2019
SUFOGIS: GIS and Remote Sensing for Sustainable Forestry and Ecology

Erasmus+ Programme, European Union
- Preparation of workshop/summer school material and video
- Participation in training activities for students and academic staff

Link https://sufogis.volgatech.net

2017 – 2020
Development of tools for wildfires' direct impact assessment on a national level using satellite data and Google Earth Engine

Scholarship in the framework of "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".
- Development of an algorithm for the automated mapping of burned areas using pairs of Sentinel-2 multispectral imagery
- Software implementation of the methodology in Python and C++ programming languages
- Participation in the project's coordination
- Scientific papers writing
- Preparation of project's deliverables

Link http://fmrsvm.for.auth.gr

2015 – 2018
ERMES: An Earth Observation Model based Rice Information System

Commission Of The European Communities – Research Executive Agency, FP7 (Grant agreement ID: 606983)
- Development and software implementation of a methodology for mapping the variability of agricultural fields using multispectral satellite imagery to optimize fertilization

- Participation in scientific papers writing
- Preparation of project's deliverables

Link http://www.ermes-fp7space.eu/en/homepage/

2013 – 2018
Establishment and Pilot Operation of the National Observatory of Forest Fires (NOFFi) — Development of indices, products and services related to the prevention of forest fires and the assessment of their impact

Directorate General of Forests and Forest Environment, Hellenic Ministry of Environment and Energy
- Development of a semi-supervised algorithm for mapping burned areas using pairs of Sentinel-2 or Landsat multispectral imagery and software implementation of the methodology
- Participation in the development of a midterm fire danger index using timeseries of satellite images and auxiliary geospatial data
- Scientific papers writing
- Preparation of project's deliverables

Link http://epadap.web.auth.gr/?lang=en

2013 – 2015
Tele-Kyoto: Vegetation mapping and biomass estimation using modern remote sensing methods under the United Nations Convention on Climate Change and the Kyoto Protocol

Programme "Thales: "Strengthening Interdisciplinary and/or Interdepartmental research and innovation with the possibility of attracting researchers from abroad through basic and applied research of excellence", European Social Fund, Partnership Agreement for the Development Framework 2007–2013
- Development and software implementation of a methodology for land cover mapping and forest species discrimination using a fusion of multispectral and hyperspectral remote sensed data
- Development of statistical models for estimating forest aboveground biomass
- Participation in project coordination
- Scientific papers writing
- Preparation of project's deliverables

Link http://www.telekyoto.web.auth.gr/index.php

PUBLICATIONS

Summary
- Author/co-author of **68** scientific papers
- **Citations:** Scopus 725, Web of Science 536, Google Scholar 958
- **h-index:** Scopus 15, Web of Science 14, Google Scholar 18

Articles in Peer-reviewed Journals

J33

Chuvieco, E.; Yebra, M.; Martino, S.; Thonicke, K.; Gómez-Giménez, M.; San-Miguel, J.; Oom, D.; Velea, R.; Mouillot, F.; Molina, J.R.; et al. Towards an Integrated Approach to Wildfire Risk Assessment: When, Where, What and How May the Landscapes Burn. *Fire* **2023**, *6*, 215, doi:10.3390/fire6050215.

J32

Stavrakoudis, D.; Gitas, I.Z. Object-Based Burned Area Mapping with Extreme Gradient Boosting Using Sentinel-2 Imagery. *Journal of Geographic Information System* **2023**, *15*, 53–72, doi:10.4236/jgis.2023.151004.

J31

Ottoy, S.; Tziolas, N.; Van Meerbeek, K.; Aravidis, I.; Tilkin, S.; Sismanis, M.; Stavrakoudis, D.; Gitas, I.Z.; Zalidis, G.; De Vocht, A. Effects of Flight and Smoothing Parameters on the Detection of Taxus and Olive Trees with UAV-Borne Imagery. *Drones* **2022**, *6*, 197, doi:10.3390/drones6080197.

J30

Psaroudakis, C.; Xanthopoulos, G.; Stavrakoudis, D.; Barnias, A.; Varela, V.; Gkotsis, I.; Karvouniari, A.; Agorgianitis, S.; Chasiotis, I.; Vlachogiannis, D.; et al. Development of an Early Warning and Incident Response System for the Protection of Visitors from Natural Hazards in Important Outdoor Sites in Greece. *Sustainability* **2021**, *13*, 5143, doi:10.3390/su13095143.

J29

Georgopoulos, N.; Gitas, I.Z.; Stefanidou, A.; Korhonen, L.; Stavrakoudis, D. Estimation of Individual Tree Stem Biomass in an Uneven-Aged Structured Coniferous Forest Using Multispectral LiDAR Data. *Remote Sensing* **2021**, *13*, 4827, doi:10.3390/rs13234827.

J28

Stefanidou, A.; Z. Gitas, I.; Korhonen, L.; Georgopoulos, N.; Stavrakoudis, D. Multispectral LiDAR-Based Estimation of Surface Fuel Load in a Dense Coniferous Forest. *Remote Sensing* **2020**, *12*, 3333, doi:10.3390/rs12203333.

J27

Stefanidou, A.; Z. Gitas, I.; Korhonen, L.; Stavrakoudis, D.; Georgopoulos, N. Erratum: Stefanidou, A., et al. LiDAR-Based Estimates of Canopy Base Height for a Dense Uneven-Aged Structured Forest. Remote Sensing 2020, 12, 1565. *Remote Sensing* **2020**, *12*, 3116, doi:10.3390/rs12193116.

J26

Stefanidou, A.; Gitas, I.Z.; Korhonen, L.; Stavrakoudis, D.; Georgopoulos, N. LiDAR-Based Estimates of Canopy Base Height for a Dense Uneven-Aged Structured Forest. *Remote Sensing* **2020**, *12*, 1565, doi:10.3390/rs12101565.

J25

Stavrakoudis, D.; Katagis, T.; Minakou, C.; Gitas, I.Z. Automated Burned Scar Mapping Using Sentinel-2 Imagery. *Journal of Geographic Information System* **2020**, *12*, 221–240, doi:10.4236/jgis.2020.123014.

J24

Franquesa, M.; Vanderhoof, M.K.; Stavrakoudis, D.; Gitas, I.Z.; Roteta, E.; Padilla, M.; Chuvieco, E. Development of a Standard Database of Reference Sites for Validating Global Burned Area Products. *Earth System Science Data* **2020**, *12*, 3229–3246, doi:https://doi.org/10.5194/essd-12-3229-2020.

J23

Stefanidou, A.; Gitas, I.Z.; Stavrakoudis, D.; Eftychidis, G. Midterm Fire Danger Prediction Using Satellite Imagery and Auxiliary Thematic Layers. *Remote Sensing* **2019**, *11*, 2786, doi:10.3390/rs11232786.

J22

Stavrakoudis, D.; Katsantonis, D.; Kadoglidou, K.; Kalaitzidis, A.; Gitas, I.Z. Estimating Rice Agronomic Traits Using Drone-Collected Multispectral Imagery. *Remote Sensing* **2019**, *11*, 545, doi:10.3390/rs11050545.

J21

Pagani, V.; Guarneri, T.; Busetto, L.; Ranghetti, L.; Boschetti, M.; Movedi, E.; Campos-Taberner, M.; Garcia-Haro, F.J.; Katsantonis, D.; Stavrakoudis, D.; et al. A High-Resolution, Integrated System for Rice Yield Forecasting at District Level. *Agricultural Systems* **2019**, *168*, 181–190, doi:10.1016/j.agsy.2018.05.007.

J20

Kadoglidou, K.; Kalaitzidis, A.; Stavrakoudis, D.; Mygdalia, A.; Katsantonis, D. A Novel Compost for Rice Cultivation Developed by Rice Industrial By-Products to Serve Circular Economy. *Agronomy* **2019**, *9*, 553, doi:10.3390/agronomy9090553.

J19

Stefanidou, A.; Dragozi, E.; Stavrakoudis, D.; Gitas, I.Z. Fuel Type Mapping Using Object-Based Image Analysis of DMC and Landsat-8 OLI Imagery. *Geocarto International* **2018**, *33*, 1064–1083, doi:10.1080/10106049.2017.1333532.

J18

Nutini, F.; Confalonieri, R.; Crema, A.; Movedi, E.; Paleari, L.; Stavrakoudis, D.; Boschetti, M. An Operational Workflow to Assess Rice Nutritional Status Based on Satellite Imagery and Smartphone Apps. *Computers and Electronics in Agriculture* **2018**, *154*, 80–92, doi:10.1016/j.compag.2018.08.008.

J17

Campos-Taberner, M.; García-Haro, F.J.; Camps-Valls, G.; Grau-Muedra, G.; Nutini, F.; Busetto, L.; Katsantonis, D.; Stavrakoudis, D.; Minakou, C.; Gatti, L.; et al. Exploitation of SAR and Optical Sentinel Data to Detect Rice Crop and Estimate Seasonal Dynamics of Leaf Area Index. *Remote Sensing* **2017**, *9*, 248, doi:10.3390/rs9030248.

J16

Busetto, L.; Casteleyn, S.; Granell, C.; Pepe, M.; Barbieri, M.; Campos-Taberner, M.; Casa, R.; Collivignarelli, F.; Confalonieri, R.; Crema, A.; et al. Downstream Services for Rice Crop Monitoring in Europe: From Regional to Local Scale. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* **2017**, *10*, 5423–5441, doi:10.1109/JSTARS.2017.2679159.

J15

Mylonas, S.K.; Stavrakoudis, D.G.; Theocharis, J.B.; Zalidis, G.C.; Gitas, I.Z. A Local Search-Based GeneSIS Algorithm for the Segmentation and Classification of Remote-Sensing Images. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* **2016**, *9*, 1470–1492, doi:10.1109/JSTARS.2016.2518403.

J14

Dragozi, E.; Gitas, I.Z.; Bajocco, S.; Stavrakoudis, D.G. Exploring the Relationship between Burn Severity Field Data and Very High Resolution GeoEye Images: The Case of the 2011 Evros Wildfire in Greece. *Remote Sensing* **2016**, *8*, 566, doi:10.3390/rs8070566.

J13

Mylonas, S.K.; Stavrakoudis, D.G.; Theocharis, J.B.; Mastorocostas, P.A. A Region-Based GeneSIS Segmentation Algorithm for the Classification of Remotely Sensed Images. *Remote Sensing* **2015**, *7*, 2474–2508, doi:10.3390/rs70302474.

J12

Mylonas, S.K.; Stavrakoudis, D.G.; Theocharis, J.B.; Mastorocostas, P.A. Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *IEEE Transactions on Geoscience and Remote Sensing* **2015**, *53*, 5352–5376, doi:10.1109/TGRS.2015.2421640.

J11

Giannoglou, V.G.; Stavrakoudis, D.G.; Theocharis, J.B.; Petridis, V. Genetic Fuzzy Rule Based Classification Systems for Coronary Plaque Characterization Based on Intravascular Ultrasound Images. *Engineering Applications of Artificial Intelligence* **2015**, *38*, 203–220, doi:10.1016/j.engappai.2014.10.018.

J10

Stavrakoudis, D.G.; Dragozi, E.; Gitas, I.Z.; Karydas, C.G. Decision Fusion Based on Hyperspectral and Multispectral Satellite Imagery for Accurate Forest Species Mapping. *Remote Sensing* **2014**, *6*, 6897–6928, doi: 10.3390/rs6086897.

J9

Dragozi, E.; Gitas, I.Z.; Stavrakoudis, D.G.; Theocharis, J.B. Burned Area Mapping Using Support Vector Machines and the FuzCoC Feature Selection Method on VHR IKONOS Imagery. *Remote Sensing* **2014**, *6*, 12005–12036, doi:10.3390/rs61212005.

J8

Mylonas, S.K.; Stavrakoudis, D.G.; Theocharis, J.B. GeneSIS: A GA-Based Fuzzy Segmentation Algorithm for Remote Sensing Images. *Knowledge-Based Systems* **2013**, *54*, 86–102, doi:10.1016/j.knosys.2013.07.018.

J7

Stavrakoudis, D.G.; Theocharis, J.B. Handling Highly-Dimensional Classification Tasks with Hierarchical Genetic Fuzzy Rule-Based Classifiers. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems* **2012**, *20*, 73–104, doi:10.1142/S0218488512400168.

J6

Stavrakoudis, D.G.; Galidaki, G.N.; Gitas, I.Z.; Theocharis, J.B. Reducing the Complexity of Genetic Fuzzy Classifiers in Highly-Dimensional Classification Problems. *International Journal of Computational Intelligence Systems* **2012**, *5*, 254–275, doi:10.1080/18756891.2012.685290.

J5

Stavrakoudis, D.G.; Galidaki, G.N.; Gitas, I.Z.; Theocharis, J.B. A Genetic Fuzzy-Rule-Based Classifier for Land Cover Classification From Hyperspectral Imagery. *IEEE Transactions on Geoscience and Remote Sensing* **2012**, *50*, 130–148, doi:10.1109/TGRS.2011.2159613.

J4

Stavrakoudis, D.G.; Theocharis, J.B.; Zalidis, G.C. A Multistage Genetic Fuzzy Classifier for Land Cover Classification from Satellite Imagery. *Soft Comput* **2011**, *15*, 2355–2374, doi:10.1007/s00500-010-0666-z.

J3

Stavrakoudis, D.G.; Theocharis, J.B.; Zalidis, G.C. A Boosted Genetic Fuzzy Classifier for Land Cover Classification of Remote Sensing Imagery. *ISPRS Journal of Photogrammetry and Remote Sensing* **2011**, *66*, 529–544, doi:10.1016/j.isprsjprs.2011.01.010.

J2

Mastorocostas, P.; Stavrakoudis, D.; Theocharis, J. A Pipelined Recurrent Fuzzy Model for Real-Time Analysis of Lung Sounds. *Engineering Applications of Artificial Intelligence* **2008**, *21*, 1301–1308, doi:10.1016/j.engappai.2008.01.001.

J1

Stavrakoudis, D.G.; Theocharis, J.B. Pipelined Recurrent Fuzzy Neural Networks for Nonlinear Adaptive Speech Prediction. *IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics* **2007**, *37*, 1305–1320, doi:10.1109/TSMCB.2007.900516.

Papers in International Conference Proceedings

C32

Sismanis, M.; Stefanidou, A.; Stavrakoudis, D.; Gitas, I.Z. Wildland Fuel Type Mapping in Attica Using Sentinel-2 Time-Series. In Proceedings of the 2023 8th International Conference on Smart and Sustainable Technologies (SpliTech); June 2023; pp. 1–5.

C31

Antoniadis, K.; Georgopoulos, N.; Katagis, T.; Stavrakoudis, D.; Gitas, I.Z. Classification of Seasonal Sentinel-2 Imagery for Mapping Vegetation in Mediterranean Ecosystems. In Proceedings of the Ninth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2023); SPIE, September 21 2023; Vol. 12786, pp. 73–78.

C30

Routis, G.; Paraskevopoulos, M.; Vetsikas, I.A.; Roussaki, I.; Stavrakoudis, D.; Katsantonis, D. Data-Driven and Interoperable Smart Agriculture: An IoT-Based Use-Case for Arable Crops. In Proceedings of the 2022 IEEE International Conference on Omni-layer Intelligent Systems (COINS); August 2022; pp. 1–8.

C29

Stavrakoudis, D.; Katagis, T.; Minakou, C.; Gitas, I.Z. Towards a Fully Automatic Processing Chain for Operationally Mapping Burned Areas Countrywide Exploiting Sentinel-2 Imagery. In Proceedings of the Seventh International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2019); International Society for Optics and Photonics, June 27 2019; Vol. 11174, p. 1117405.

C28

Georgopoulos, N.; Stavrakoudis, D.; Gitas, I.Z. Object-Based Burned Area Mapping Using Sentinel-2 Imagery and Supervised Learning Guided by Empirical Rules. In Proceedings of the IGARSS 2019 - 2019 IEEE International Geoscience and Remote Sensing Symposium; July 2019; pp. 9980–9983.

C27

Stefanidou, A.; Dragozi, E.; Tompoulidou, M.; Stepanidou, L.; Grigoriadis, D.; Katagis, T.; Stavrakoudis, D.; Gitas, I. Mid-Term Fire Danger Index Based on Satellite Imagery and Ancillary Geographic Data. In Proceedings of the Fifth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2017); International Society for Optics and Photonics, September 6 2017; Vol. 10444, p. 104440P.

C26

Campos-Taberner, M.; García-Haro, F.; Nutini, F.; Grau-Muedra, G.; Camps-Valls, G.; Confalonieri, R.; Gilardelli, C.; Busetto, L.; Ranghetti, L.; Katsantonis, D.; et al. Evaluation of Multisource LAI Time Series for Crop Assessment. In Proceedings of the Recent Advances in Quantitative Remote Sensing - RAQRS 2017; Valencia, Spain, September 18 2017.

C25

Tompoulidou, M.; Stefanidou, A.; Grigoriadis, D.; Dragozi, E.; Stavrakoudis, D.; Gitas, I.Z. The Greek National Observatory of Forest Fires (NOFFi). In Proceedings of the Proc. SPIE 9688; Cyprus, August 12 2016; Vol. 9688, pp. 96880N-96880N – 9.

C24

Tompoulidou, M.; Stefanidou, A.; Grigoriadis, D.; Dragozi, E.; Stavrakoudis, D.; Gitas, I.Z. National Fuel Type Mapping Methodology Using Geographic Object Based Image Analysis and Landsat 8 OLI Imagery. In Proceedings of the GEOBIA 2016: Solutions and Synergies; Kerle, N., Gerke, M., Lefevre, S., Eds.; University of Twente Faculty of Geo-Information and Earth Observation (ITC): Enschede, Netherlands, September 14 2016.

C23

Tompoulidou, M.; Grigoriadis, D.; Stefanidou, A.; Dragozi, E.; Stavrakoudis, D.; Gitas, I. Fuel Type Mapping on National Scale Using Object Based Image Analysis and Landsat 8 OLI Imagery: The National Observatory of Forest Fires (NOFFi) Case. In Proceedings of the Proceedings of the 10th EARSeL Forest Fire Special Interest Group Workshop; Limassol, Cyprus, November 2 2015.

C22

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C21

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