



Workshop in Artificial Intelligence Application In Earth Observation and Geoinformatics

Agenda

Date & Time: 19th of March 2025

Place: Aliathon Holiday Village, Paphos - Cyprus

Time (CY)	Abstract ID	Title	Speaker
09:00 – 09:05		Welcome note	
09:05 – 09:20	5	Evaluation of Pre-processing Methodologies for Normalized Vegetation Analysis Data	Ziheng Huang
09:20 – 09:35	26	Innovative Coastal Management: Leveraging AI and Satellite Imagery for Monitoring Urban and Port Environments within the OCEANIDS Project	Eirini Marinou
09:35 – 09:50	26	Deep Learning-Based Grassland Mapping with Sentinel-2: Prioritizing Key Spectral Bands and Time Periods	Konstantinos Christofi
09:50 – 10:05	52	A Comparative Study of NDVI, SVM, and Nearest Neighbor Algorithms for Effective Land Use Land Cover Classification	Sridhar Parupalli
10:05 – 10:20	58	An Empirical Comparison of Machine Learning Algorithms for Groundwater Quality Classification	Stelios P. Neophytides

10:20-10:35	79	HYPERBOLA: AI-Powered Cloud Masking for On-Board Hyperspectral Data Processing	Maria Banti
10:35 – 10:50	91	A Toolkit for Ambulance Dispatch and Routing Optimization using AI and GIS	Stelios Mappouras
Coffee Break			
11:30 – 11:45	100	On-board Convolutional AutoEncoder-based multispectral image compression: benchmarking analysis on VPU and FPGA	Giorgia Guerrisi
11:45 – 12:00	112	Machine Learning for identifying damage patterns on cultural heritage – case study the Tomb of the Kings in Paphos, Cyprus	Christodoulos Dimitriou
12:00 – 12:15	124	Forest Species Classification Using Hyperspectral Imagery in a Mediterranean Fir-Dominated Ecosystem	Cemre Sude Atan
12:15-12:30	77	Designing XR-based learning solutions for Surveying Engineering: Insights from literature review and user requirements	Georgios Mallinis
12:30-12:45	122	Spatio-Temporal Diffusion Model for Satellite Imagery	Alireza Javanmardi

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