



International Conference on Advanced Remote Sensing – Shaping Sustainable Global Landscapes

List of Posters



Poster Session A

Thursday, 27 March 2025 (14:00–15:00, 16:30–17:00)

Session	Number	Author	Title
A	1	Filippo Bocchino	Preliminary Analysis of Prisma Imagery for Agricultural Drought Assessment in Italy
A	2	Hideki Tsubomatsu	Enhancing Tetracorder Mineral Classification With Random Forest Modeling
A	3	Iskren Ivanov	Mineralogical Mapping of Pyroxene and Anorthosite in Dryden Crater Using M3 Hyperspectral Data
A	4	Iskren Ivanov	Transition Metal Elemental Mapping of Fe, Ti, and CR in Lunar Dryden Crater Using Moon Mineralogy Mapper Data
A	5	John Gallego Montoya	Enhancing Paleoearthquake Detection Using Ground-Based Hyperspectral Data: Insights From the Alhama de Murcia Fault, Spain
A	6	Pedro J. Gómez-Giráldez	Spaflex: Field Campaign for Calibration and Validation of Flex-S3 Mission Products
A	7	Qi Zhao	Hybrid Training Driven Unsupervised Domain Adaptation Network for Hyperspectral Image Classification
A	8	Shengjie Ma	Remote Laser-Induced Breakdown Spectroscopy Scanning Imaging for Mineral Element Identification
A	9	Valerio Gagliardi	Advancements in Earth Observation Satellites for Enhanced Monitoring of Critical Infrastructure in Coastal Environments
A	10	Yuhao Xia	An Exploration of Range Resolution Enhancement Mechanism for Hyperspectral Lidar
A	11	Diego Andres Bernal Soto	Detecting and Mapping the Structure and Pattern of Informal Settlements Using Open Data: A Case of Study in Valparaíso
A	12	Elitza Uzunova	First Results in Calculating Urban Green Spaces with Machine Learning and Geographic Information Systems
A	13	Elizabeth Souza	Urban Expansion Projections in Maricá – Rio de Janeiro-RJ: Modeling with Cellular Automata and Sentinel Images for 2030 and 2040
A	14	Joan Pallarès	InSAR Deformation Monitoring in Urban Areas: Analysis at Different Spatial Scales
A	15	Raphaël Valeri	SAR Imagery Modelling and Simulation for Investigating the Composite Scattering Between the Targets and the Environment
A	16	Shuaicun Qian	Event-based Infrared Fusion for Dynamic Remote Sensing with Deep Learning
A	17	Yassine El Khanoussi	Improving Roof Material Classification Using Machine Learning on Noisy Training Data

A	18	Antonio Napolitano	Integration of Advanced Sensing Technologies and Digital Twin Frameworks for Dynamic Infrastructure Monitoring
A	19	Beatriz Martinez	Spatial and Temporal Patterns of Carbon Fluxes as Indicators of Ecosystems State
A	20	Corentin Carré	Benchmark Between Several Fast Hybrid Methods to Model the Rcs of Metallic Target in Maritime Environment
A	21	Dionisio Rodríguez-Esparragón	Monitoring Volcanic Eruptions and Forest Changes with Planetscope Constellation: A Case Study of La Palma Island
A	22	Giulia Ronchetti	Leveraging Semantic Segmentation for Photovoltaic Plants Mapping in Optimized Energy Planning
A	23	Jie Guo	Simulation Construction of Oil Film Thickness Based on Experiment with Microwave Equipment and Hyperspectral Imager
A	24	Joaquín Valenzuela-Jara	Coastal Erosion in Tsunami and Storm Surge-Exposed Areas in Licantén, Maule, Chile: A Review Using Remote Sensing and In-Situ Data
A	25	Laurent Roche	Radar Echo Simulation of Offshore Wind Turbines at X-Band
A	26	Milena Danailova	Implementation of Geoinformation Approaches and Remote Sensing Methods Through Vegetation and Soil Indices Using Sentinel-2 Satellite Imagery for Studying the Territory of Vitosha Natural Park
A	27	Waldo Pérez-Martínez	Analysis of Multi-Decadal Changes of Topocalma Beach (O'Higgins Region, Chile) Using Satellite Imagery
A	28	Waldo Pérez-Martínez	Remote Sensing and GIS Data Applied to Debris Flow and Debris Flood Susceptibility in the Northeastern Sector of the City of Santiago (33°20.51' S - 70°28.16' W)
A	29	Katarzyna Dabrowska - Zielinska	Service for Monitoring Drought Conditions for the Baltic Sea Drainage Basin – Example Poland Area. FPCUP Open Data Framework
A	30	Tesfaye Temtime Tessema	Investigating the Impact of Temperature Changes on Coastal Heritage Sites Using Remote Sensing
A	31	Abdelbagi Yanes Fadlalmwlla Adam	Enhancing Rainfall Measurement Using Remote Sensing Data in Sparse Rain Gauges Networks: A Case Study in White Nile State, Sudan
A	32	Alexey Valero-Jorge	Evaluating the Influence of Missing Data From Crop Vegetation Index Time Series on Copernicus HR-VPP Phenological Products
A	33	Andrea Soccolini	Cluster-Based Approach to Model Wheat Height Using Sentinel-1 Data

Poster Session B

Friday, 28 March 2025 (11:00-11:30, 13:30-14:30)

Session	Number	Author	Title
B	1	Amine Hadir	FracTAL-Unet ARRM: FracTAL Unet and Attention Residual Refinement Module for Agricultural Parcel Delineation
B	2	Amine Hadir	Approaches For Modeling Agricultural Hyperspectral Signature Objects
B	3	Dinesh Bhattraï	A Systematic Review on Agricultural Pollution: Exploring Global Perspectives for Nepal
B	4	Giulia Graldi	Testing the Potentialities of SAOCOM L-Band Data for Retrieving Superficial Soil Moisture at the Field Scale
B	5	Lorenza Ranaldi	Monitoring of Surface and Water Levels of Inland Resources in Central Italy Using COSMO-SkyMed Imagery
B	6	Paulina Raeva	Yield Prediction Model based on Multitemporal Satellite Data and Open Public Data: Case Study for the Territory of Bulgaria
B	7	Totsanat Rattanakaew	Satellite-Based Assessment of Tropical Economic Crop Growth
B	8	Francesca Ferroni	Remote Sensing for SDG 15.3: Advancing Sustainable Cocoa Agriculture in Ghana Using Trends.Earth
B	9	Nguyen Hoang	Advancing Mammal Detection in Tropical Forests Through Lightweight Drones
B	10	Sylvain Borderieux	Study and Simulation of Micro-Doppler Signature in Radar Theory: Application to Aircraft
B	11	Alfonso Bermejo-Saiz	Assessment of Grassland Dynamics in the Iberian Peninsula Using NDVI-MODIS Time Series
B	12	Christine Moen-Crabtree	High-Resolution Land Cover Mapping with Geographic Object-Based Image Analysis (GEOBIA) for Neighborhood Level Understanding of Urban Environments
B	13	Ricardo Coelho	Using Satellite Earth Observations to Estimate Carbon Sequestration
B	14	Virginia Chiara Cuccaro	Satellite-Image Interpretation to Assess Land-Use Dynamics in Italian Rural Landscapes
B	15	Elizabete Bugalski De Peixoto	Automated Monitoring Platform for Forest Restoration with Sensors and AI
B	16	Javier Marcello	Comparative Analysis of Tree Segmentation Techniques on High- and Low-Density LiDAR data
B	17	Jesica Garrido-Leiva	Phenological Evaluation in Ravine Forests through Remote Sensing and Topographic Analysis: Case of Los Nogales Nature Sanctuary, Metropolitan Region of Chile

B	18	Alessia Sbriglio	Performance Analysis of Advanced Object Detection Algorithms on Satellite and Drone Imagery
B	19	Christian Hümmer	Qualification and Evaluation of Uncertainty Estimation Concepts for Automatic Change Detection
B	20	Zhong Wang	Remote Sensing Meteorological Data Prediction Based on Wavelet Transform and Adaptive High- and Low-Frequency Fusion Strategies
B	21	Yu Chen	A Novel Routing Algorithm for LEO Mega-Constellations
B	22	Waldo Pérez-Martínez	Multitemporal Analysis of the Dynamics of High-Andean Wetlands in the Metropolitan Region of Chile Using Sentinel-2 Images and ERA5-Land Climate Data
B	23	Mateo Pastrana	Carbon Storage Capacity of Woody Crops in South Spain: The Agrolico Project
B	24	Mateo Pastrana	Comparison of Two LiDAR Techniques for Estimating Above Ground Biomass in a Tropical Forest of Costa Rica
B	25	Sabelo Madonsela	Exploring the Utility of Sentinel-2 Data for Retrieval of LAI of Maize Across Different Growth Stages
B	26	Maria Zografou	Evaluating the Water Needs of Gardenia Potted Plants via Low-Cost Sensor Measurements and a Transpiration Prediction Model
B	27	Ahmed Hasoba	Monitoring Ecosystem Dynamics Using Machine Learning: Random Forest-Based LULC Analysis in Dinder National Park, Sudan
B	28	Temitope Omoniyi	Harnessing Remote Sensing and Predictive Analytics for Accurate Forest Growing Stock Volume Assessment in Estonia
B	29	Idania Briceño-de-Urbaneja	Morphodynamics of the Mouth of the Mataquito River, Maule Region, Chile From Satellite Images
B	30	Paloma Carollo Toscan	Impact Assessment of Nature-Based Solutions on Urban Air Quality Using Remote Sensing
B	31	Mayra Guadalupe Martínez Mena	Spectroscopic Characterization of Leaf Color for Identifying Riparian Woody Specie
B	32	Qi Zhao	A Large Foundation Model Based Finetuning Network for Transmission Towers and Powerlines Segmentation