

ESA EO Φ -week

E-Posters Overview, Status 06.09.2019

TUESDAY 10 September 2019

E-poster Number	Title	Theme	Firstname	Lastname	Organisation
1	The Potential of Vineyard Parcel Detection Using Deep Learning	AI4EO: Applications	Nicolas	Maestriperi	Terranis
2	Quality Control Optical Learning Tool	AI4EO: Applications	Andrea	Melchiorre	Telespazio Vega Uk
3	Supporting Geodesign from Space	AI4EO: Applications	Hrshikesh	Ballal	Geodesignhub
4	Computational Model of Low-Level Vision First Stage in Mammals	AI4EO: Applications	Andrea	Baraldi	Italian Space Agency
5	Beyond Satellite Land Monitoring Solutions, the Cadastral Digital Twin	AI4EO: Applications	Walter	Barberis	Urby&Orbit
6	Variables' Choice & Features' Selection to Improve Random Forest Classifiers' Performance in Land Use Land Cover Mapping of Coastal Areas.	AI4EO: Applications	Anne-laure	Beck	Agrans
7	AI Powering Cartographic Production Tools for Improved Operations	AI4EO: Applications	Alessia	Tricomi	e-geos
8	Automated Ship Detection Based on Deep Learning from Optical Multiresolution Images Helped by the Construction of Synthetic Datasets	AI4EO: Applications	Gianfausto	Bottini	e-geos
9	'Its an error' is correct for consistency. Power and limits of Creative AI	AI4EO: Applications	Cristiano	De Nobili	Harman - Samsung
10	Towards Large Scale Crop Mapping on Sentinel-2 Data	AI4EO: Applications	Christina	Butsko	OneSoil LLC
11	Natural Colours Injection on Sentinel-1 Products Using Advanced AI Approach Exploiting Synergies of Copernicus Sentinel Missions	AI4EO: Applications	Andrea	Cavallini	Rhea Group
12	Contemporary Techniques for the Documentation of Complex Archaeological Landscapes: The Case Of Meteora, Greece	AI4EO: Applications	Vasiliki (betty)	Charalampopoulou	Geosystems Hellas
13	Sobloo: Building a New Paradigm for Geospatial Data Fusion	AI4EO: Applications	Christophe	Avargues	AIRBUS
14	Ontology-Based Semantic Search over Linked Satellite, Geospatial, Numeric and Symbolic Data in the Water Management Domain	AI4EO: Applications	Mariana	Damova	Mozaika
15	A Platform Deployed Mangrove Monitoring Algorithm for Sustainable Coastal Fisheries and Aquaculture That Combines Sentinel-2 and Sentinel-1 Data Using Machine Learning	AI4EO: Applications	Andy	Dean	Hatfield Consultants
16	DECISION: Data-drivEn Customer Service InnovatiON	AI4EO: Applications	Mauro	Casaburi	Planetek Italia S.r.l.
17	SCIRES: Supporting Critical Infrastructures Resilience From Space	AI4EO: Applications	Angelo	Amodio	Planetek Italia S.r.l.
18	No Feature Data Analytics: Compression Pattern Recognition	AI4EO: Applications	Mihai	Datcu	DLR
19	Generative AI for Remote Sensing	AI4EO: Applications	Otto	Fabius	Sobolt
20	Generating Land Cover Product for Bulgarian Black Sea Coastal Zone Using Cloud Computing and Multi-temporal Copernicus Satellite Data	AI4EO: Applications	Lyubka	Pashova	National Institute Of Geophysics, Geodesy And Geography - Bulgarian Academy Of Sciences
21	Domain Adaptation for Cloud Segmentation from Sentinel-2 to SPOT-6/Pléiades Sensors	AI4EO: Applications	Hugo	Fournier	Magellium
22	Crop Type Detection Using Deep Learning Inside an Easy-to-use Processing Chain	AI4EO: Applications	Hugo	Fournier	Magellium
23	Oil Spill Automatic Detection Based on Deep Learning Techniques	AI4EO: Applications	Carmine	Frascella	e-geos
24	IRAKA: a Tool to Improve the Management of Soil Resources in the Cundiboyacense Highlands	AI4EO: Applications	Douglas Andrés	Gómez-Latorre	Corporación Colombiana De Investigación Agropecuaria – Agrosavia
25	AI-Based Flood Mapping for Coastal Areas	AI4EO: Applications	Claudio	Mammone	e-geos
26	Intelligent Agriculture – New Products to Serve Information-Hungry Sectors	AI4EO: Applications	Eva	Haas	GEOVILLE
27	Statistical Comparison of Iceberg Backscatters Using Polarimetric Decompositions	AI4EO: Applications	Umma Hafsa	Himi	Memorial University Of Newfoundland
28	High Spatial Resolution Land Products Derived From Reconstructed Landsat Reflectance in the Cloud	AI4EO: Applications	Emma	Izquierdo-verdiguier	University Of Natural Resource And Life Science (boku)
29	Crops Yield Prediction Using Weakly Supervised Learning: From Region to Pixel	AI4EO: Applications	Alexei	Sholomisky	OneSoil LLC
30	A Platform and Eco-System for AI on the Edge in Space Applications	AI4EO: Applications	Venkatesh	Kannan	ICHEC
31	Super-Resolution Reconstruction of Satellite Images Using Deep Neural Networks	AI4EO: Applications	Michal	Kawulok	Silesian University of Technology / Future Processing
32	Leveraging the Information From Unlabelled Sentinel Images Through Unsupervised Deep Learning	AI4EO: Applications	Saso	Dzeroski	Jozef Stefan Institute
33	The Biocoast Service: Satellite Images and Machine Learning for Natural Environment Mapping and Monitoring	AI4EO: Applications	Benoit	Beguet	i-Sea

34	New Trends in Coastal Erosion Monitoring at the European Scale: the Space for Shore Comprehensive Solution	AI4EO: Applications	Virginie	Lafon	i-Sea
35	Crop Mapping Based on Sentinel-1 and Sentinel-2 Data Within World Bank Project	AI4EO: Applications	Natalia	Kussul	Space Research Institute
36	U-net for Crop Classification Map Filtration	AI4EO: Applications	Mykola	Lavreniuk	Space Research Institute
37	Advances at COMET LiCSAR System for InSAR Observation of Tectonic and Volcanic Activity	AI4EO: Applications	Milan	Lazecky	Leeds University
38	Automated Workflows For Forest Monitoring Using Multispectral Optical and SAR Data	AI4EO: Applications	Evangelos	Maltezos	Geosystems Hellas
39	Machine Learning for Detection at Sea Using Multiple Sensors - Application to Sargassum	AI4EO: Applications	Antoine	Mangin	ACRI-ST
40	TSAR AI - Rapid Mapping of Natural Disasters	AI4EO: Applications	Taras	Matselyukh	OPT NET
41	Use of Deep Learning Techniques and Heterogeneous EO Data Time Series for an Early Warning Tree Cover Change Detection System in the Tropics	AI4EO: Applications	Clément	Hardy	Communications & Systèmes
42	Automatic Young Tree Detection on SAR Data Using Machine Learning Algorithms	AI4EO: Applications	Luis	De Juan	Capgemini
43	Hybrid Anomaly Detection to Extract Extreme Events	AI4EO: Science	Juan Emmanuel	Johnson	University Of Valencia
44	Inferring Causal Relations in Earth Observation: Methods, Applications and a Web-platform	AI4EO: Science	Emiliano	Díaz	University Of Valencia

WEDNESDAY 11 September 2019

E-poster Number	Title	Theme	Firstname	Lastname	Organisation
1	A Web Based Spatial Information System Used in Insurance Risk Management.	Research Infrastructures	Iseoluwapo Ebenezer	Ademosu	Demuft Aby
2	Modelling Earth-Observation Assessments and Adaptation of North-Atlantic Coast to Extreme Climate and Ocean Events	AI4EO: Science	Samuel	Akande	Federal University Of Technology Akure
3	The Browse Processor (BRPF) – Python-based Earth Observation Satellites Data Visualization Software.	Research Infrastructures	Marcin	Wyrozebski	GMV
4	EO_MAMMALS - a Tool Towards the Sustainability of the Whale Watching Activity	Research Infrastructures	Amaya	Atencia Yopez	GMV
5	GMV Processing Toolbox - Improving Near Real-Time EO Data Processors by Using GPGPU	Research Infrastructures	Manuel	Ruiz	GMV
6	Automatic Wake Detection on SAR Imagery by Using Deep Convolutional Neural Networks	AI4EO: Science	Corrado	Avolio	e-geos
7	A Deep Recurrent Neural Network Architecture for Land Cover and Crop Classification from Multisensor Multitemporal Irregularly Sampled Data	AI4EO: Applications	Corrado	Avolio	e-geos
8	Adding Value to the Urban Data Value Chain With the Urban-TEP	Research Infrastructures	Felix	Bachofer	DLR
9	Access Control on Big Data and Small Pixels: How to Achieve Privacy and Security	Research Infrastructures	Peter	Baumann	Rasdaman
10	Using Jupyter Cloud IDE to Integrate Spatial Datasources for Augmented Reality Mobile Applications	Research Infrastructures	Michał	Bednarczyk	University of Warmia and Mazury in Olsztyn
11	Application of Jupyter IDE Platform for InSAR Data Processing	Research Infrastructures	Michał	Bednarczyk	University of Warmia and Mazury in Olsztyn
12	Artificial Intelligence for Copernicus Sentinel-2 L1C Image Radiometric Quality	AI4EO: Science	Sébastien	Dorgan	CS
13	Extreme Sea Level Analysis with Incomplete Data: Evaluation of a Machine Learning Method for Filling Data Gaps	AI4EO: Science	Clara	Brune	Independent Researcher
14	Deep Learning Semi-Supervised Approach for Classification from SAR Data With Limited Labeled Training Datasets	AI4EO: Applications	Mauro	Di Donna	e-geos
15	Outlier Detection in InSAR Time-series for Infrastructure and Building Stability Monitoring	AI4EO: Science	Salvatore	Falco	e-geos
16	Using the Earth System Data Lab to Understand Drivers for Grassland Degradation on the Tibetan Plateau	AI4EO: Science	Fabian Ewald	Fassnacht	Karlsruhe Institute Of Technology
17	Deep Learning Methods Applied to Earth-Observation Satellite Vibrations Correction	AI4EO: Science	Béatrice	Berthelot	Magellium
18	Robust Change Detection Using Time Series Transitivity	AI4EO: Science	Ana	Puttonen	Terramonitor
19	Continuous Wavelet Transforms Of Big Geomagnetic Data For Studying Halloween Geomagnetic Storm	AI4EO: Science	Ognyan	Kounchev	Bulgarian Academy Of Sciences
20	Investigating the Use of Deep Learning for Sea Surface Temperature Super-Resolution	AI4EO: Science	Gianluca	Valentino	University Of Malta
21	Sentinel 2A for Mapping Forest Species in the Azrou forest, Central Middle Atlas of Morocco	AI4EO: Science	Meriam	Mohajane	Department Of Biology, Faculty Of Sciences, Moulay Ismail Uni
22	Super Resolution of Satellite Images Using GAN Networks	AI4EO: Science	Delphine	Nobileau	Capgemini
23	Building Detection With Satellite Images	AI4EO: Science	Luis	De Juan	Capgemini
24	Adjustment and Validation of InSAR DEMs With GNSS Data	AI4EO: Science	Guillermo	O'Connor	ASI
25	Crop Type Identification Using Deep Learning Techniques	AI4EO: Applications	Steffen	Fritz	IIASA

26	Building a Picture-Based Reference Database for Crop Type Classification Using Deep Learning	AI4EO: Applications	Steffen	Fritz	IIASA
27	Spatio-Temporal Estimation of Surface Deformation as a Factor of Relative Sea Level Change in Coastal Urban Environments and Protected Areas With the Contribution of SENTINEL 1 Images	AI4EO: Science	Issaak	Parcharidis	Harokopio University
28	Artificial Intelligence in the ESA Climate Change Initiative : A Review	AI4EO: Science	Eduardo	Pechorro	ESA
29	Agriculture: A New Frontier for European Space Policy	AI4EO: Science	Lebeau	Pemha Thina	AIPEA
30	Processing Chain For Continuous Updated Supervised Land Classification With OTB	AI4EO: Applications	Panteha	Pishevvar	Terradue srl
31	Fully Convolutional Siamese Neural Network with Local Similarity Loss function for Change Detection with Satellite Data	AI4EO: Applications	Andrea	Pomente	University Of Rome Tor Vergata
32	Detecting Rain Cells in Satellite Radar Altimetry Data: a Machine Learning Experiment	AI4EO: Applications	Pierre	Prandi	CLS
33	Change Detection In Time Series Of Combined Sentinel-1 and Sentinel-2 Data, A Methodological Framework and a Showcase With the Monitoring of The 2018 Flood in The Northern Tunisia-Copernicus Emergency EMSR319 Event	AI4EO: Applications	Bertrand	Saulquin	ACRI-ST
34	Deep Learning on Temporal Satellite Images to delineate Agriculture Field Boundaries in Pakistan	AI4EO: Applications	Syed Roshaan Ali	Shah	University College London
35	Anomaly Detection Approach for In-Situ Data in the Crop Classification Task Using Supervised and Unsupervised Methods	AI4EO: Science	Leonid	Shumilo	Space Research Institute SSAU-NASU
36	Optimising Agricultural Monitoring Through the Use of UAV and Satellite Data Within and AI Framework	AI4EO: Applications	Panagiotis	Sidiropoulos	Hummingbird Technologies Ltd
37	A Front Office Application Supporting Developing Countries in Cloud-Based Land Cover Monitoring for REDD+	AI4EO: Applications	Marcus	Sindram	GAF
38	Case Study On Cubesat Radio Frequency-Based Geospatial Detection and its Applications	AI4EO: Applications	Kathiravan	Thangavel	Sapienza University Of Rome
39	Development of Local EO Algorithms for Monitoring the Greek Seas Using Copernicus Sentinel Data and in Situ Measurements	AI4EO: Applications	Eleni	Athanasopoulou	Geospatial Enabling Technologies
40	Deep Learning Techniques for Land Use Classification in Multispectral Remotely Sensed Data: A review on Datasets and Current Researches	AI4EO: Applications	Ava	Vali	Politecnico di Milano University
41	Emulation for Approximating Radiative Transfer Modeling: Computational Efficiency and Sensitivity Analysis	AI4EO: Science	Jochem	Verrelst	University Of Valencia
42	Mapping Palm Oil Globally	AI4EO: Applications	Sara	Aparício	ESA
43	Accurate Machine Learning in Data-Sparse Environments: Mapping 17-year Urban Settlement Change in Ethiopia	AI4EO: Applications	ZhuangFang	Yi	Development Seed
44	Towards Equitable Access to Information and Opportunity for All: Mapping Schools With High-Resolution Satellite Imagery and Machine Learning	AI4EO: Applications	ZhuangFang	Yi	Development Seed
45	Semi-Supervised Learning for World Scale Crop	AI4EO: Applications	Alexander	Kalinovsky	OneSoil LLC
46	Physics-aware Machine Learning in Earth Observation	AI4EO: Applications	Emiliano	Díaz	Universitat De València
47	Data Management for SmallSats: Implications for Government, Academic, and Startup Commodity Satellite Programs	Next EO	Daniel	Pilone	Element 84

THURSDAY 12 September 2019

E-poster Number	Title	Theme	Firstname	Lastname	Organisation
1	HAPSVIEW: ESA's Study for the Analysis of the Added Value of the Use of HAPS for Air Quality and GHG Applications	Next EO	Amaya	Atencia Yopez	GMV
2	Xcube - A Light-Weight, Open Source Software for Generation and Service Provision With Xarray Data Cubes	Research Infrastructures	Gunnar	Brandt	Brockmann Consult GmbH
3	CASTeC - Machine Learning for Context Aware Spacecraft Health Status Monitoring	Next EO	Mattia	Ricatto	SATE
4	How Small Grant Funding and Community Input Can Maximize the Use and Value of Earth Observation Data	Research Infrastructures	Annie	Burgess	ESIP
5	WASDI - Develop at Home, Deploy to the Cloud	Research Infrastructures	Paolo	Campanella	Fadeout Software Srl
6	Build Massive Data Processing Chain on Sobloo Using Kubernetes	Research Infrastructures	Christophe	Avargues	AIRBUS
7	A Cloud-Based Performance Center for Earth Observation Missions	Research Infrastructures	Sébastien	Clerc	ACRI-ST
8	Creating Value at the Lower End of the Earth Observation Market.	Next EO	Thys	Cronje	Simera Sense
9	Towards SNAP-StaMPS Automatic PSI Processing Service for Research Applications on ESA GEP Cloud Infrastructure	Research Infrastructures	Jose Manuel	Delgado Blasco	Rhea S.p.a.
10	The ESA KSA Vialone Project: New Business from Space in Organic Farming	Next EO	Fabio	Dell'Acqua	University of Pavia, Italy
11	Large-Scale Vegetation Inventorying with Sentinel-2: A FabSpace 2.0 / Phi-Unet Educational Case at the University of Pavia	Next EO	Fabio	Dell'Acqua	University of Pavia, Italy

12	The Project EOXPOSURE: A Joint European and South American Effort to Make Urban Areas Healthier and More Secure Thanks to Spaceborne Earth Observation	Next EO	Fabio	Dell'Acqua	University of Pavia, Italy
13	Quantum Imaging for Space Objects	Next EO	Cristoforo	Abbattista	Planetek Italia S.r.l.
14	Information-as-a-Service and New Business Models From Satellite Based Monitoring	Next EO	Daniela	Drimaco	Planetek Italia S.r.l.
15	Grottaglio Airport Test Bed: Technological Infrastructure Supporting Aerial EO RPAS Operations	Research Infrastructures	Fiorella	Coliolo	Women in Aerospace Europe
16	CRUISE: Cyber Security in UAS Missions by Satellite Link	Research Infrastructures	Luigi	Agrimano	Planetek Italia S.r.l.
17	CloudScout: In-Orbit Demonstration of In-Flight Cloud Detection Using Artificial Intelligence	Next EO	Marco	Esposito	Cosine Remote Sensing
18	OneAtlas	Research Infrastructures	Robin	Expert	Airbus Ds Geo Intelligence
19	Copernicus Data in the Emergency, a New Approach to Flood Risk Management	Next EO	Michele	Ferri	Autorità Alpi Orientali
20	EODAG : an Open Source Earth Observation Data Access Gateway	Research Infrastructures	Vincent	Gaudissart	CS
21	The Power of Federation of Assets to Deliver State-of-the Art Geoinformation Driven Services	Next EO	Massimo	Comparini	e-geos
22	A STAC API for Earth on AWS Datasets	Research Infrastructures	Daniel	Pilone	Element 84
23	Towards Serverless GRASP	Research Infrastructures	Christoph	Holter	Catalysts GmbH
24	Earth Observation (EO) and Remote Sensing (RS) Services to Support an International Observing System for Svalbard	Research Infrastructures	Shridhar	Jawak	Svalbard Integrated Arctic Earth Observing System (sios)
25	Geospatial Assessments of Climate Change Impacts and Community Resilience on Coastal Degradation in West-Africa	Next EO	Olajumoke	Jejelola	Federal University Of Technology Akure
26	CREODIAS - Users and Data - Lessons Learned	Research Infrastructures	Monika	Krzyzanowska	Cloudferro
27	Monitoring and Assessing Dredging Environments via EO and In-Situ Information as Part of the CoastMADE Project	Next EO	Sinead	Mcglynn	Techworks Marine
28	Next Generation DataCube Service Based on Cloud-native Architecture	Research Infrastructures	Grega	Milcinski	Sinergise
29	ADAM Dynamic Digital Earth	Research Infrastructures	Stefano	Natali	Sistema GmbH
30	Earth Observation Products Supporting Climate Change Education: a Case Study From a High-School in Rome	Next EO	Jubin	Mowlay	Global Shapers Rome Hub
31	MAAP: The Mission Analysis and Algorithm Platform - A New Virtual and Collaborative Environment for the Scientific Community	Research Infrastructures	Hugo	Dorbes	Capgemini
32	COSMO Second Generation: New Opportunities and Synergies	Next EO	Axel	Oddone	e-geos
33	Open-Source Multi-Cloud Management Platform	Research Infrastructures	Audrey	Paccini	CS
34	Remote Sensing For The Study Of The Ocean - Atmosphere Interface	Research Infrastructures	Lebeau	Pemha Thina	AIPEA
35	Datacube Services for the Offshore Wind Industry in the UK	Research Infrastructures	Alberto	Rabaneda	University Of Hull
36	Dynamic Satellite Imagery Metadata Harvesting and Summary Statistics Generation Through a Web-based Application	Research Infrastructures	Naomi	Petrushevsky	Politecnico Di Milano
37	SAR Altimetry Processing On Demand Service for Cryosat-2 and Sentinel-3 at Esa G-POD	Research Infrastructures	Marco	Restano	SERCO
38	TEP Geohazards for Completing the Multi-Temporal Inventory of Gravitational Hazards Under Changing Climate	Research Infrastructures	Romy	Schlögel	ESA
39	OpenStreetMap (OSM) Earth Observation (EO) Deep Learning (DL)	Research Infrastructures	Michael	Schultz	Heidelberg University
40	Mosaics: Level-3 Analysis Ready Data	Research Infrastructures	Petr	Sevcik	Geospatial IT Engineer
41	Air Quality Estimation for the Kyiv City Within ERA-PLANET Project	Research Infrastructures	Andrii	Shelestov	Space Research Institute SSAU-NASU
42	Adaptable Compressive Sensing Ocean Color Imager For Cubesats	Next EO	Vittorio	Brando	Cnr-ismar
43	Automated Multi-Node ARD Generation of Sentinel-1 for Land Applications on the ONDA DIAS Using the Open SAR Toolkit	Research Infrastructures	Andreas	Vollrath	ESA
44	River Ice Monitoring Service Based On Sentinel-1 Data	Research Infrastructures	Michał	Kubicki	Astri Polska Sp. z o.o.
45	Jupyter - Jupyter-Oriented Cloud Service for EO Data Processing	Research Infrastructures	Daniel	Zinkiewicz	Wasat Sp. z o.o.