

## POSTER LIST

### Group A: AI for Monitoring and Predicting

**1 | Towards a machine learning model to predict carbon dioxide fluxes from space**

PRESENTER: [Laia Amorós](#)

**2 | A scalable deep learning pipeline for mapping forest disturbances**

PRESENTER: [Keith A. Araño](#)

**3 | Earth MegaPixel: High Resolution NO2 Monitoring Service**

PRESENTER: [Camille Lainé](#)

**4 | SUPER-RESOLVED RAINFALL PREDICTION WITH PHYSICS-AWARE DEEP LEARNING**

PRESENTER: [Bertrand Le Saux](#)

**5 | Leveraging Historical and Radar Satellite Data for Leaf Area Index Estimation with Deep Learning**

PRESENTER: [Jules Salzinger](#)

### Group B: AI for Image Segmentation and Object Detection

**6 | SEA ICE SEGMENTATION FROM SAR DATA BY RESIDUAL CONVOLUTIONAL TRANSFORMER NETWORKS**

PRESENTER: [Nicolae Catalin Ristea](#)

**7 | DEVELOPING LIVESTOCK DETECTION MODEL FOR VERY HIGH-RESOLUTION SATELLITE IMAGERY USING AERIAL IMAGERY AND DEEP LEARNING IN KENYA**

PRESENTER: [Ian Ocholla](#)

**8 | BUILT-UP EXTENT EXTRACTION USING SENTINEL-1 AND SENTINEL-2 DATA WITH A NOVEL SAMPLING APPROACH AND CROSS-FUSION NEURAL NETWORKS**

PRESENTER: [Yu Li](#)

**9 | CHANGE DETECTION WITH SPACEBORNE HYPERSPECTRAL PRISMA DATA**

PRESENTER: [Bertrand Le Saux](#)

**10 | Hybrid Classical-Quantum Neural Network for Rice Crop Identification**

PRESENTER: [Ioannis Liliopoulos](#)

**11 | Simplifying Image Segmentation for Projects with Data Scarcity**

PRESENTER: [Soumya Ranjan](#)

**12 | WASTE DUMP IDENTIFICATION BY SEMANTIC SEGMENTATION USING DEEP LEARNING AND SENTINEL 2**

PRESENTER: [George Boldeanu](#)

### Group C: AI for Platforms, Tools, and Services

**13 | Sentinel Hub extension with AI capabilities**

PRESENTER: [Devis Peressutti](#)

**14 | AI4SEN2COR: A SEN2COR ENHANCEMENT FOR GEOSPATIAL DETECTION**

PRESENTER: [\*Francesco Cristiano Pignatale\*](#)

**15 | BIG DATA PLATFORM TECHNOLOGIES SPEEDING UP AI DEVELOPMENT IN EO**

PRESENTER: [\*Alessandro Marin\*](#)

**16 | DEEP LEARNING TECHNIQUES TO ADDRESS SMALL DATA PROBLEMS**

PRESENTER: [\*Anastasiia Safonova\*](#)

**17 | EO4EU - AI-augmented ecosystem for Earth Observation data accessibility with Extended reality User Interfaces for Service and data exploitation**

PRESENTER: [\*Charalampos Andreou\*](#)

**18 | Lessons learnt from SMO, a big data machine learning project**

PRESENTER: [\*Ruben De March\*](#)

**19 | METIS : An Open-Architecture for building AI-Ready Cloud platforms - Application to foster research on hydrological modeling**

PRESENTER: [\*Yasmine Boulfani\*](#)

**20 | On Board Telemetry Anomaly Detection using Machine Learning**

PRESENTER: [\*František Voldřich\*](#)

**21 | AIOPEN – Platform Extensions with AI Capabilities**

PRESENTER: [\*Leslie Gale\*](#)

Group D: Data Cubes, Fusion, and Uncertainty

**22 | ENHANCING THE SPATIAL RESOLUTION OF SENTINEL 3 SYNERGY THROUGH THE SUPER-RESOLUTION VIA REPEATED REFINEMENT METHOD**

PRESENTER: [\*Maria Dekavalla\*](#)

**23 | AUGMENTED REMOTE SENSING WITH SMART HYBRIDIZATION FROM EXOGENOUS DATASOURCES**

PRESENTER: [\*Louis Ulmer\*](#)

**24 | Influence of uncertainty in reference data on the validation of multi-temporal settlement layers**

PRESENTER: [\*Katarzyna Goch\*](#)

**25 | AI AND DATACUBES: TOWARDS A HAPPY MARRIAGE**

PRESENTER: [\*Peter Baumann\*](#)

**26 | PLATO: A SEMANTIC DATA CUBE IMPLEMENTATION USING ONTOLOGY-BASED DATA ACCESS TECHNOLOGIES**

PRESENTER: [\*George Stamoulis\*](#)

Group E: Tools, Services, and Applications

**27 | THE MMX TOOLKIT: HIGH PERFORMANCE, REANALYSIS-BASED CLIMATIC SUITABILITY MODELING TO ADVANCE AVIAN CONSERVATION**

PRESENTER: [\*Mark Carroll\*](#)

**28 | Harnessing Maritime Geospatial Information for InsurTech Advancements**

PRESENTER: [\*Hayder Al Hraishawi\*](#)

**29 | LAND SURFACE TEMPERATURE DATA APPLIED TO MONITOR BUILDING'S HEAT LOSS**

PRESENTER: [\*Youri Colera\*](#)

**30 | OPT4SOL – SITE SELECTION OF SOLAR FARMS USING EO DATA AND AI, TAKING THE NATURAL CAPITAL INTO ACCOUNT**

PRESENTER: [\*Tamás Prajczér\*](#)

**31 | Towards an Integrated Framework for Collaborative Modeling Using Social Media Posts and Earth Observations.**

**32 | HARNESSING SENTINEL-2 DATA FOR LARGE SCALE DROUGHT MONITORING: EMPOWERING USERS THROUGH BIG DATA INSIGHTS**

PRESENTER: [\*S. Mohammad Mirmazloumi\*](#)

**33 | INTEGRATION OF MULTIPLE GLOBAL BURNED AREA PRODUCTS TO IMPROVE FIRE MONITORING AND MANAGEMENT**

PRESENTER: [\*Consuelo Gonzalo-Martin\*](#)

Group F: Efficient and Effective Data Processing

**34 | Processing framework for scientific Earth Observation missions**

PRESENTER: [\*Richard Hofmeister\*](#)

**35 | DESIGN OF CO3D IMAGE PROCESSING CHAIN**

PRESENTER: [\*Olivier Melet\*](#)

**36 | COPERNICUS REFERENCE SYSTEM: A SCALABLE AND OPEN-SOURCE MULTIMISSION PROCESSING CHAIN IN THE CLOUD**

PRESENTER: [\*Pierre Cug\*](#)

**37 | SENTINEL-2 REPROCESSING: A CHALLENGE**

PRESENTER: [\*Jean-Michel Rivet\*](#)

Group G: Data Accuracy, Annotation, Storage, and Cataloging

**38 | A Kerchunk-based cloud access platform incorporating carbon-aware practices**

PRESENTER: [\*Daniel Westwood\*](#)

**39 | A Scalable Near-Line Storage Solution for Very Big Data**

PRESENTER: [\*Neil Massey\*](#)

**40 | Generation of Long Time Data Series for ESA heritage TPM missions**

PRESENTER: [\*Mirko Albani\*](#)

**41 | Valorisation and Curation of the ESA ERS Missions**

PRESENTER: [\*Mirko Albani\*](#)

**42 | Annotating large satellite telemetry dataset for ESA International AI Anomaly Detection Benchmark**

PRESENTER: [\*Krzysztof Kotowski\*](#)

**43 | A NEW SERVICE FOR JOINT DISCOVERY OF EARTH OBSERVATION AND IN-SITU DATA**

PRESENTER: [\*Bernard Pruijn\*](#)

**44 | FROM STAC TO POLICY SUPPORT USING THE JRC BIG DATA ANALYTICS PLATFORM**

PRESENTER: [Chiara Chiarelli](#)

Group H: Insights and Impact from Time Series

**45 | Unlocking sustainability: leveraging big EO data analytics for bonding a greener future**

PRESENTER: [Ignacio Borlaf-Mena](#)

**46 | AN ADVANCED FRAMEWORK FOR SEMANTIC QUERYING OF THE DYNAMIC WORLD DATASET**

PRESENTER: [Martin Sudmanns](#)

**47 | MAPPING FOREST LOSS in EUROPE WITH SENTINEL-1**

PRESENTER: [Felix Cremer](#)

**48 | Using Big Data from Space in support to water management decisions at regional level**

PRESENTER: [Omar Barrilero](#)

**49 | Determining grassland age at national scale through long-term Sentinel-2 and Landsat time series analysis**

PRESENTER: [Matic Lubej](#)

**50 | LEAF AREA INDEX TIME SERIES IMPUTATION FOR EARLY YIELD PREDICTION**

PRESENTER: [Christoph Jörges](#)

Group I: Platforms

**51 | SPACE DATA CENTERS: REQUIREMENTS FOR EXAMPLE USE-CASE**

PRESENTER: [Jakub Nalepa](#)

**52 | DESP: YOUR GATEWAY TO THE DESTINATION EARTH INITIATIVE**

PRESENTER: [Alexis Longuet](#)

**53 | THE COALA ENABLING PLATFORM FOR LOW IMPACT AGRICULTURE IN AUSTRALIA: FOCUS ON PRODUCTS FOR IRRIGATION MANAGEMENT**

PRESENTER: [Francesco Vuolo](#)

**54 | Proof of Optimality for a Decentralised EO Data Processing Architecture**

PRESENTER: [Robert Cowlshaw](#)

**55 | Copernicus Data Space Ecosystem will transform CAP Monitoring**

PRESENTER: [András Zlinszky](#)

**56 | IMAGIN-E, THE FIRST STEP TOWARDS EXTENDING THE CLOUD INTO SPACE**

PRESENTER: [Elisa Callejo](#)

**57 | YAMCS CLOUD – MISSION CONTROL AND EO DATA PROCESSING AS A SERVICE**

PRESENTER: [Mathieu Schmitt](#)