

Interdisciplinary WORKSHOP on...
... big data and Earth Observation services for journalists

Co-organised by



**School of Journalism
and mass
communications**



CERTH
CENTRE FOR
RESEARCH & TECHNOLOG
HELLAS



Supported by the EU SnapEarth project

“Fostering Earth Observation market uptake thanks to natural and holistic access to added value data generated through cutting-edge Artificial Intelligence technologies”



March 18th, 2021

Online workshop, accessible via the following link

<https://authgr.zoom.us/j/93453838482?pwd=Yy9XcnkwN0dpZktYK3RnZ11JaU5CQT09>

Executive Summary of the Workshop

Cause

Today, Earth Observation (EO) data are freely available in large quantities. However, the main obstacle to their use by the general public is that these data are sometimes hard to access, and a precise image can be hard to find from the large amount of data available. In addition, the data cannot always be exploited due to weather conditions, and its interpretation can be challenging (different bands, resolution and geometry, etc.). Another reason why these data are not widely used by the general public is that they are not currently highlighted by search engines (e.g. a query returns almost no results from EO).

Effect

SnapEarth project aims to facilitate access to Earth Observation (EO) data from the general public thanks to EO data labelling and indexation innovations and access from the Qwant search engine. Alongside, this project aims to bring out new values through large-scale earth observation data services and to anticipate future priorities by leveraging artificial intelligence, cloud computing technologies and tools. SnapEarth introduces a novel and innovative approach for those who want to use EO data as it enables the automatic extraction of semantic information from satellite imagery, which will be accessible to a wide range of user communities.

SnapEarth introduces several pilot projects, among which is the EarthPress pilot. This pilot aims to deliver value-added products to editors and journalists allowing them to enrich the content of their publications and articles. Such contents tailored to specific user needs will be notably based on EO data (e.g., disaster extent maps, background imagery) and aggregated information from social media, websites, etc. on a given topic. This solution will provide added value data to the media industry allowing them to disseminate the success of Copernicus to the citizens. Other pilot projects introduced in SnapEarth concern the implementation of services to support climate monitoring activities, agricultural monitoring activities and create a forecast report to predict future changes in the area of interest

Programme

11:30 – 11:40

Introduction to the workshop

Presenter: Anastasis Drosou, Centre for Research and Technology Hellas (CERTH),
Andreas Veglis, School of Journalism and Mass Communications, AUTH

11:40 – 12:00

The SnapEarth Project

- Introduction to the project's scope

Presenter: Anastasis Drosou, Centre for Research and Technology Hellas (CERTH)

12:00 – 12:20

Spaceborne monitoring of land cover changes induced by floods and forest fires.

- Introduction to Copernicus emergency monitoring services.
- Monitoring of disasters' impacts by the assimilation of spaceborne data.

Presenter: Ioannis Manakos and Michail Sismanis, Centre for Research and Technology Hellas (CERTH)

12:20 – 12:40

Artificial intelligence (AI) methods for big data analysis

- Introduction to the technologies used for text synthesis
- Introduction to the technologies used for image processing

Presenter: Alexandros Zamichos, Centre for Research and Technology Hellas (CERTH)

12:40 – 13:00

The EarthPress solution

- Introduction to the EarthPress solution (scope and functionalities)
- Presentation of the EarthPress interface

Presenter: Alexandros Zamichos, Centre for Research and Technology Hellas (CERTH)

13:00 – 13:30

Discussion session

- Completion of feedback forms
- Challenges in journalism in the big-data era
- Discussion
- Wrap-up and conclusion

Virtual Room

[SnapEarth] 1st National Workshop (CERTH-ITI & AUTH-SoMJ)

Please join the meeting from your computer, tablet or smartphone.

<https://authgr.zoom.us/j/93453838482?pwd=Yy9XcnkwN0dpZktYK3RnZ1lJaU5CQT09>

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