



CyCLOPS News Bulletin November 2022

CyCLOPS at the 41st EARSeL 2022, Paphos, Cyprus

CyCLOPS team was strongly participated at the **41st EARSeL Symposium 2022 in Paphos, Cyprus on 13-16th of September 2022**; four research studies were presented as oral presentations. EARSeL is a scientific network of European remote sensing laboratories, coming from both academia and the commercial/industrial sector, which covers all fields of geoinformation and earth observation through remote sensing.



14th of September 2022:

- Assistant Professor Dr. Chris Danezis gave a presentation in Disaster Risk Reduction Special Session, entitled ***"The Establishment of the CyCLOPS Intergated Strategic Research Infrastructure Unit for the Geohazard Monitoring Activities: Considerations, Performance Assessment and Initial Results"***. He had the opportunity to promote CyCLOPS infrastructure and highlight the importance and benefit for Cyprus from establishing a strategic infrastructure unit for natural hazards funded under the **CyCLOPS** Project.
- PhD Candidate, Mr. Nikolas Christoforou launched his findings in ***"A Review Of Current GNSS Interference Detection and Localisation Techniques Towards the Development of Resilient GNSS Strategic Infrastructure"***.

15th of September 2022: PhD Candidate, Mrs. Kyriaki Fotiou, participated in the Special Session of New trends in Geological Remote Sensing with two presentations. Concerning the first presentation entitled ***"Satellite-Based Monitoring of an Active and Fast-Moving Landslide using PSI and DInSAR Analysis: The case study of Pissouri Village in Cyprus"***. The specific study presents the preliminary findings of a spaced-based monitoring analysis carried out by means of Differential Interferometry (DInSAR) and Persistent Scatterer Interferometry (PSI) using the newly found **CyCLOPS** strategic infrastructure unit's equipment. Regarding the second presentation focused on the ***"Potentiality of landslide detection in Open-Pit Mines using Satellite-Based techniques: The case study of Vasiliko Open-Pit Mine in Cyprus"***, the investigation of the assesment to detect and monitor large- or small-scale landslides in open-pit limestone mines, using the Sentinel-1 constellation was presented.



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(INFRASTRUCTURES/1216/0050)

Cyprus Continuously Operating
Natural Hazards Monitoring & Prevention System



European Union
European Regional
Development Fund



Republic of Cyprus



Structural Funds
of the European Union in Cyprus



RESEARCH
& INNOVATION
FOUNDATION



European Researchers' Night 2022

September 2022 - CyCLOPS team participated at the European Researchers 'Night 2022 in Nicosia, Cyprus on 30th of September 2022. Our presence awakened the interest of participants about the installation of the CyCLOPS multi-parametric network, in detail. The European Researchers 'Night event aims to encourage the public to become familiar with the world of science and research and at the same time to strengthen the public image of researchers, whilst highlighting the important role they play in society.



CyCLOPS at REFAG 2022

18 October 2022- Assistant Professor Chris Danezis has participated at the Reference Frames for Applications in Geoscience (REFAG) 2022 which took place on the 17th-20th of October 2022 in Thessaloniki, Greece. During the conference he gave two oral presentations in different sessions on the 18th of October 2022. The first presentation entitled "Update of ITRF densification in Cyprus using IGS repro3 products" was given in Session 3 – Regional Reference Frames and their Applications. Concerning the second presentation which it was presented in Session 5 – Usage & Challenges of Reference Frames for Earth Science Applications, Dr. Danezis introduced the "CyCLOPS: Establishment of a Strategic Integrated Permanent GNSS and InSAR Array to Enhance Monitoring of Geohazards and Promote Infrastructure Resilience in Cyprus". During the conference, he had the opportunity to promote CyCLOPS infrastructure and discuss with stakeholders and scientists. He highlighted the importance and benefit for Cyprus from establishing a strategic infrastructure unit for natural hazards funded under the CyCLOPS Project, as well as the implementation of the project and the first results of the project in various case studies.



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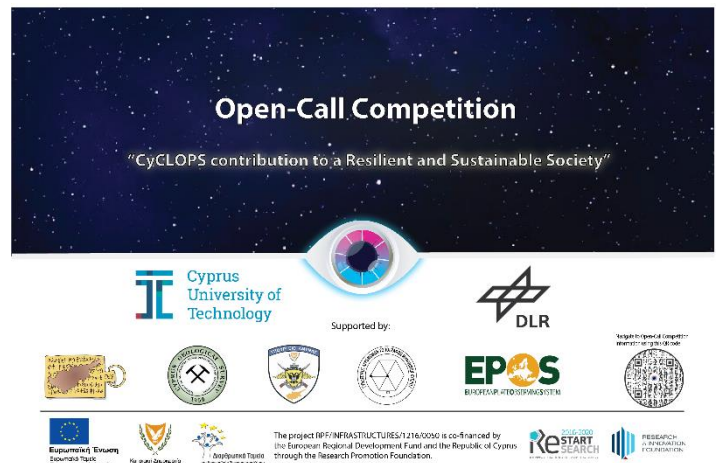
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The project INFRASTRUCTURES/1216/0050 is co-financed by the European Regional Development Fund and the Republic of Cyprus through the Research and Innovation Foundation



Procurement of Open Call Competition 'CyCLOPS contribution to a Resilient and Sustainable Society'

November 2022: CyCLOPS, which is in full operational capacity since June 2021, is launching the “**CyCLOPS contribution to a Resilient and Sustainable Society**” open-call competition with the aim of fostering the use of CyCLOPS Strategic Research Infrastructure Unit among young professionals, entrepreneurs, SMEs, and scientific community, to create innovative ideas and solutions across Cyprus and Europe.



More info on our website www.cyclops.cy

CyCLOPS Third Workshop & Stakeholder Meeting

The Third Workshop of CyCLOPS project with the CUT community was successfully completed on 31st of October 2022. People from Cyprus University of Technology and ERATOSTHENES Centre of Excellence have the unique opportunity to visit our team at Cyprus University of Technology. The discussed topics include the implementation of CyCLOPS, as long as, the determination of suitable locations for the installation of Permanent GNSS Station and InSAR Corner Reflectors, and the first results in various case studies of the project.



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Demonstration of CyCLOPS Project to GSD premisses

04 Friday 2022- Presentation of project's final results & case studies with GSD members. Note that GSD was not able to attend the 3rd Stakeholders Event. Therefore, a separate meeting was arranged at their premises in Nicosia. Further discussion on the establishment of a continuous collaboration to promote preparedness and prevention in Cyprus has taken place.

