

Democratic and popular republic of Algeria  
Ministry of Higher Education and Scientific Research  
Amar Telidji University - Laghouat  
Department of Civil Engineering



The Faculty of Civil Engineering and Architecture organizes a study and training day on:  
« Exploration of Google Cloud Platforms in the Field of Remote Sensing »  
Tuesday, April the 30<sup>th</sup>, 2024 at the University of Laghouat

Remote sensing has played a crucial role in significant advancements in the fields of mapping, modeling, and understanding ecosystems. Common applications of remote sensing mainly encompass passive and active systems. Data collected by these sensors are utilized across various domains and applications, spanning a wide range of spatial and temporal scales. The aim is to enhance understanding of natural and artificial dynamics of space.

Over the past decade, geospatial analysis tools have seen significant evolution due to the emergence of powerful platforms such as Google Earth Engine. These platforms enable analysis of vast sets of geospatial data, thereby providing the opportunity to explore environmental trends, detect changes over time, and leverage cloud computing as well as machine learning algorithms to extract valuable insights from satellite images.

The use of these tools is revolutionizing our approach to geospatial data processing. These technologies enable rapid and accurate analysis of information, thus opening new perspectives in sectors such as natural disaster prediction, monitoring and management of natural resources, urban planning, as well as urban resilience management. The Faculty of Civil Engineering and Architecture (Laghouat), IEEE-GRSS, and the Algerian Association of Geosciences and Remote Sensing are pleased to invite you to participate in the Cloud and Remote Sensing DAY. This event will take place on April the 30<sup>th</sup>, 2024 at 8:30 am in the El Wiam Amphitheater, featuring an exclusive demonstration of a Nanosat.

Join us for an immersive day of learning and exploration in the exciting world of remote sensing, cloud computing, and machine learning. Explore the endless possibilities offered by geospatial technology.

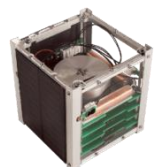


A planetary-scale platform for Earth science data & analysis

Powered by Google's cloud infrastructure



Google Earth Engine



**Democratic and popular republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Amar Telidji University - Laghouat**  
**Department of Civil Engineering**



**Program**

Start	Duration	Activity	Speaker
08h30	(5 min)	Verses of the Quran	
08h35	(5 min)	Algerian national anthem	
08 h40	(10 min)	Words from the Vice-Rector in charge of external relations	Pr. Bouziani Tayeb
08 h50	(10 min)	words from the Dean of the faculty (President of the Day)	Pr. Gafsi Mostefa
09 h00	(10 min)	Words from the Vice-dean of the faculty in charge of post graduation , research and external relations	Dr. Sofrani Khelifa
09 h10	(10 min)	Words from the the head of the civil engineering department	Dr. Sekkoum Mohamed
09 h20	(10 min)	Presentation of the Algerian Association of Geosciences and Remote Sensing	Dr. Omrani Rachid.
09 h30	(10 min)	Presentation of the Chapter of the American Institute of Electronics and Electricity (Geosciences Chapter)	Pr. Suissi.Boulerbah.
09 h40	(40 min)	Performances of Cloud Geospatial Platforms in Remote Sensing	Mr. Mouissa Habib.
10h20	(30 min)	Coffee break and poster viewing	
10h50	(01h30)	Exploring the potential of Remote Sensing, Cloud Computing and Machine Learning via Google Earth Engine GEE	Mr. Bengusmia.Djamel
12h20	(01h40)	Lunch break	
14h00	(20 min)	Presentation of the Nano-satellite	Mr.Souahlia A/krim.
14H20	(1h30)	Introduction to Google Colab and using the Geopandas library for geospatial analysis	Mr. Hachi Abderrahmane
15h50	(10 min)	Summary and Reading of Recommendations	Dr. Chakali. A Dr.Sekkoum Mohamed
16h00	(10 min)	Closing of the manifestation	Pr. Gafsi Mostefa



A planetary-scale platform for Earth science data & analysis

Powered by Google's cloud infrastructure



Google Earth Engine



**Democratic and popular republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Amar Telidji University - Laghouat**  
**Department of Civil Engineering**

    	<p style="text-align: center;"><b>Organizers</b></p> <ul style="list-style-type: none"> <li>University of Laghouat - Faculty of Civil Engineering and Architecture</li> <li>Algerian Association of Geosciences and Remote Sensing</li> <li>IEEE Algeria Section – Chapter GRSS</li> <li>The Scientific Club of Civil Engineering Department</li> <li>The Science Club of Architecture Department</li> </ul>	 <p style="text-align: center;"><b>Target Audience</b></p> <ul style="list-style-type: none"> <li>Students</li> <li>Teachers</li> <li>Researchers</li> </ul>
--	--	---

Registration will be done on a Google Form link

The participant will benefit from a package (Pen + Notebook) + a Certificate of Attendance

<b>Chair of the manifestation : Pr. Gafsi Mostefa</b>	
<b>Dr. Sekkoum Mohamed</b> : chair of the organizing committee.	<b>Dr. Sofrani Khalifa</b> : chair of the scientific committee.
Dr. Chettih Azzedine	Pr. Merrah Ahmed
Dr. Saci Mohamed	Pr. Suissi Boularbah
Dr. Rayane abdesselam	Dr. Mouissa Habib
Mr. Saad saoud Wahid	Dr. Guerroudj Abdelhalim
Students participating in the organization	Dr. Chakali Ahmed Nadjib
Sayeb Abdelkader	Dr. Omrani Rachid
Benabderrahmane Mohamed Khalifa	Dr. Guiddoum Azzedine
Boulabas Mohamed Abdelouahab	Dr. Souahlia Abdelkrim
Saadat Amar Islam	Dr. Dhina Karim
Benabderrahmane Mehdi	Mr. Djabalah Ahmed
Alem Widad	Mr. Kadri Chadli
Khafif Kaoutar	Mr. Hachi Aberrahmane Bensalem
Aziz Abdelkader	Mr. Benguessmia Djamal
Abzouzi Meriem	
Siham Sahraoui	
Ben Braik Taha	
Hamidi Atalah	



A planetary-scale platform for Earth science data & analysis

Powered by Google's cloud infrastructure



Google Earth Engine

