



المؤتمر العالمي السابع للجيوفيزياء الهندسية Seventh International Conference on Engineering Geophysics

TECHNICAL PROGRAM

16 - 19 OCTOBER 2023 • UNITED ARAB EMIRATES UNIVERSITY • AL AIN, UAE WWW.SEG.ORG/EVENTS/ICEG23



October 16-19

المؤتمر العالمي السابع للجيـوفيـزياء الهنـدسيـة Seventh International Conference on Engineering Geophysics

TIME		PROGRAM DETAILS		
START	END	DAY 1: MONDAY, 16 OCTOBER 2023 AUDITORIUM, CRESCENT BUILDING		
08:00	10:00	Onsite Registration Open		
10:00	10:10	Opening Address by UAE University Chancellor		
10:10	10:15	Introductory Film with Special Address by the UAEU Vice Chancellor & GM of Al Ain Mun	icipality	
10:15	10:25	SEG President Opening Address - Arthur Cheng		
10:25	10:35	Opening Address by Richard Miller, Committee Co-chair		
10:35	10:45	Announcing the Innovation Award Winners & Student Winners		
10:45	11:05	EXHIBITION OF	PENING & COFFEE BREAK - 20 MIN	
11:05	11:30	GENERAL KEYNOTE: DISTRIBUTED ACOUSTIC SENSING (DAS) AND SUSTAINABLE CITIES	S OF THE FUTURE I BIONDO BIONDI, STANDFORD UNIVERSITY	
		PANEL SESSION: INNOVATIONS IN MINING AND EXPLORATION GEOPHYSICS	S TO MEET THE DEMAND FOR ENERGY TRANSITION MINERALS	
11:30	11:50	PANEL KEYNOTE: DALYA ALZAWAD, SAUDI MINISTRY OF INDUSTRY AND MINERAL RESOURC	ES	
11:50	12:20	Panel Moderator: John Bradford, Colorado School of Mines		
		Panelist: Anna Lim, Argeo		
PANEL SPI	EAKERS	Panelist: Dalya AlZawad, Saudi Ministry of Industry and Mineral Resources		
		Panelist: Yaoguo Li, Colorado School of Mines		
		Panelist: Yousef Jawabreh, Ministry of Energy & Infrastructure, UAE		
12:20	12:50	POSTER SESSION 1 EXHIBITION AREA		
12:50	13:50	LUNCH BREAK - 1 HR		
	SESSION 1: CCS AND MINERALS EXPLORATION (SESSION CHAIRS: JOHN BRADFORD (COLORADO SCHOOL OF MINES), SUSAN WEBB (UNIVERSITY OF WITWATERSRAND)}			
13:50	14:15	SESSION KEYNOTE: TOWARDS A COST-EFFECTIVE AND FUTURE-PROOF APPROACH TO MONITORING GEOLOGICAL CARBON STORAGE YAOGUO LI, COLORADO SCHOOL OF MINES		
14:15	14:35	Achieving Long-term Monitoring CO2 and Geothermal fluids using Deep Learning Tieyuan Zhu, Penn State University		
14:35	14:55	Subsurface Imaging with Portable Active Seismic Source through Amplified Vertical Vibration Ahmad Bahaa Omar Ahmad, Kyushu University		
14:55	15:15	Airborne Data Acquisition using Ergodic Sampling: A New Design Criterion Mengli Zhang, Colorado School of Mines		
15:15	15:35	Using Airborne Geophysics for Mineral Exploration in UAE – A Case Study Karim Benhammam, Ministry of Energy & Infrastructure		
15:35	16:05	POSTER	SESSION 2 I EXHIBITION AREA	
16:05	16:25	C	OFFEE BREAK - 20 MIN	
{SESSION CHAIRS: ELITA LI (PURDUE UNIVERSITY), {SESSION CHAIRS: CHRIS LEECH (GEOMATRIX EARTH SCIENCE), HITOSHI M		SESSION 2B: TECHNOLOGY AND METHODOLOGICAL ADVANCES I {SESSION CHAIRS: CHRIS LEECH (GEOMATRIX EARTH SCIENCE), HITOSHI MIKADA (KYOTO UNIVERSITY)} VENUE: AUDITORIUM, ROOM B1001 (AMERICAN CORNER), CRESENT BUILDING		
16:25	16:35	PRODUCT DEMONSTRATION BY GEOMATRIX EARTH SCIENCE - 10 MINS	PRODUCT DEMONSTRATION BY GEOTOMOGRAPHIE - 10 MINS	
16:35	16:55	Building an Initial Model for Near-surface Surface Waves based Full-waveform Inversion with Deep Learning Dmitry Borisov, Kansas Geological Survey	Investigation of Seismic Wave Attenuation in Carbonate Rocks Fateh Bouchaala, Khalifa University	
16:55	17:15	Regression Activation Mapping detects the Characteristic Microstructures of Rock Physical Properties: Insights from the Combination of Digital Rock Physics and Convolutional Neural Networks Kazuki Sawayama, Kyoto University	Evaluation of Key Geotechnical Parameters (OCR, KO) using Seismic SH-and SV-Wave Cross-Hole Data Thomas Fechner, Geotomographie GmbH	

18:00	20:00	VISIT TO BAIT MOHAMMED BIN KHALIFA	
17:55	18:15	Al on Al: Training Al Classifier on Al-generated Remote Sensing Images Abdullah Alsalmani, United Arab Emirates University (UAEU)	
17:35	17:55	Artificial Intelligence Potential in Digitizing Old and Raw Geodata Khalid Elhaj, United Arab Emirates University (UAEU)	
17:15	17:35	Active Learning Full Waveform Inversion Ersan Turkoglu, Saudi Aramco	Assessment of Air Quality in Abu Dhabi Emirate, UAE using Geoinformatics Rana Saqer, United Arab Emirates University (UAEU)



TIME		PROGRAM DETAILS	
START	END	DAY 2: TUESDAY, 17 OCTOBER 2023 AUDITORIUM, CRESCENT BUILDING	
	PANEL SESSION: ROLE AND CONTRIBUTION OF NEAR-SURFACE GEOPHYSICS TO SUSTAINABLE FUTURE		
08:00	08:20	PANEL KEYNOTE: PROVIDING WATER TO 400 MILLION PEOPLE IN SUB-SAHARAN AFRICA I PAUL BAUMAN, BGC ENGINEERING	
08:20	08:50	Panel Moderator: Sue Webb, University of Witwatersrand	
	<u> </u>	Panelist: Chi Zhang, University of Vienna	
PANEL SP	'EAKERS	Panelist: Khalid Obaid, ADNOC	
		Panelist: Paul Bauman, BGC Engineering	
08:50	09:20	POSTER SESSION 3 I EXHIBITION AREA	
09:20	09:40	COFFEE BREAK - 20 MIN	
		SESSION 3: GEOTHERMAL AND HYDROGEOPHYSICS (SESSION CHAIRS: HAKIM SAIBI (UNITED ARAB EMIRATES UNIVERSITY (UAEU), ESSAM ABOUD (KING ABDULAZIZ UNIVERSITY)}	
09:40	10:05	SESSION KEYNOTE: MONITORING GROUNDWATER LEVEL USING WIND TURBINE GENERATED NOISE I ELITA LI, PURDUE UNIVERSITY	
10:05	10:25	Contribution of Gravimetry to the Study of the Structure of the Télidjene Basin (Eastern Algeria): Hydrogeological Implications Tarek Drias, Batna 2 University	
10:25	10:45	Risk Identification in Levees using Near-surface Seismic Methods Steve Sloan, U.S. Army Engineer Research & Development Center	
10:45	11:05	A Comprehensive Study of Egypt's Geothermal Energy Potential Mohamed Abdel Zaher, National Research Institute of Astronomy and Geophysics (NRIAG)	
11:05	11:25	Imaging Subsurface Geothermal Structures Using Magnetotelluric Data at Tendaho Geothermal Field, Northeast Ethiopia Biruk Abera Cherkose, United Arab Emirates University (UAEU)	
11:25	11:45	Gravity and Magnetic Data for the Hot Dry Rocks (HDR) Delineation of the Enhanced Geothermal System (EGS) in Gonghe Town, China Xueyu Zhao, University of New South Wales (UNSW) Sydney	
11:45	12:15	POSTER SESSION 4 I EXHIBITION AREA	
12:15	13:15	LUNCH BREAK - 1 HR	
		SESSION 4: BEST OF ICEEG {SESSION CHAIRS: JIANGHAI XIA (ZHEJIANG UNIVERSITY), RICK MILLER (KANSAS GEOLOGICAL SURVEY)}	
13:15	13:40	SESSION KEYNOTE: ACCURATE LINEAR-ARRAY DISPERSION IMAGING OF PASSIVE SURFACE WAVES IN URBAN ENVIRONMENTS I JIANGHAI XIA, ZHEJIANG UNIVERSITY	
13:40	14:00	Reconstructing Near-surface Model via Joint Random-objective Waveform Inversion of Rayleigh and Love Waves Yudi Pan, Wuhan University	
14:00	14:20	Seismic Interferometry from Correlated Sources by Crosscoherence: Application to the Retrieval of Rayleigh, Love and Virtual Refraction Waves from 3C Train-traffic-induced Vibrations Binbin Mi, Zhejiang University of Technology	
14:20	14:40	A Regularization Method for Complex Construction Based on the Combination of Learning Dictionary and Mathematical Dictionary Xu Xingrong, Research Institute of Petroleum Exploration & Development-Northwest (NWGI)	
14:40	15:00	COFFEE BREAK - 20 MIN	
		SESSION 5: PLANETARY AND LUNAR GEOPHYSICS (SESSION CHAIRS: NIELS GROBBE (UNIVERSITY OF HAWAI'I AT MANOA), TAKESHI TSUJI (UNIVERSITY OF TOKYO))	
15:20	15:10	PRODUCT DEMONSTRATION BY IRIS INSTRUMENTS - 10 MINS	
15:10	15:30	Mapping the Internal Structure Arctic Pingos using Ground-penetrating Radar: Results from the Pingo Canadian Landmark John H Bradford, Colorado School of Mines	
15:30	15:50	Development of Lunar Gravity Field and its Application Jianguo Yan, Wuhan University	
15:50	16:10	3D Imaging of Mars' Subsurface with Mars Reconnaissance Orbiter Shallow Radar Data Frederick J. Foss II, Freestyle Analytical & Quantitative Services, LLC	
16:10	16:30	A Large Low-density Igneous Pluton Occurring beneath the Aristarchus Plateau Revealed by Gravity Inversion Feng Liang, Wuhan University	

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SEMINAR CONCURRENT TO SESSION 4 & 5

SEMINAR ON MULTIPHYSICS APPROACH IN ENERGY TRANSITION: ADVANCES IN METHODOLOGIES AND APPLICATIONS I VENUE: ROOM B1002 (AMERICAN CORNER), CRESENT BUILDING

13:15	14:20	Value of Multiphysics Data Yaoguo Li, Colorado School of Mines
14:20	15:10	Physics-based ML Inversion of Multiphysics Data Taqi Alyousuf, Saudi Aramco
		A Multiphysics Framework for Reservoir Monitoring Taqi Alyousuf, Saudi Aramco
15:10	15:30	Quasi-geology Model from Multiple Geophysical Inversions Yaoguo Li, Colorado School of Mines
15:30	16:10	A Large Low-density Igneous Pluton Occurring beneath the Aristarchus Plateau Revealed by Gravity Inversion Mengli Zhang, Colorado School of Mines



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TIME		PROGRAM DETAILS		
START	END	DAY 3: WEDNESDAY, 18 OCTOBER 2023 AUDITORIUM, CRESCENT BUILDING		
		SESSION 6: GEOHAZARDS AND RISK I {SESSION CHAIRS: CHRIS LEECH (GEOMATRIX EARTH SCIENCE), CHIH-PING (NATIONAL YANG MING CHIAO TUNG UNIVERSITY)}		
08:00	08:25	SESSION KEYNOTE: OBSTACLE FORECASTING FOR TUNNEL CONSTRUCTION USING REFLECTED SEISMIC WAVES I ENHEDELIHAI ALEX NILOT, NATIONAL UNIVERSITY OF SINGAPORE		
08:25	08:45	Geotechnical Imaging Ahead of Underground Developments De-risks Mine Planning Reece Van Buren, Digital Surveying		
08:45	09:05	Use of Passive Seismic Arrays for Seismic Hazard Assessment Dan Hollis, Sisprobe		
09:05	09:25	Identification of an Air-filled Collapse by Using ERT and SRT Geophysical Methods. A Case St Peteris Dzerins, University of Latvia	tudy from Latvia	
09:25	09:55	POSTER SE	ESSION 5 I EXHIBITION AREA	
09:55	10:15	COF	FFEE BREAK - 20 MIN	
(S		N 7A: GEOHAZARDS AND RISK II {SESSION CHAIRS: REECE VAN BUREN Geophysical Association), John Bradford (Colorado School of Mines)}	SESSION 7B: TECHNOLOGY ADVANCEMENTS AND MONITORING Venue: Auditorium, Room B1001 (American Corner), Cresent Building	
10:15	10:25	PRODUCT DEMONSTRATION BY SMARTSOLO - 10 MINS		
10:25	10:45	Direct Detection of 135 m Deep Void Using High Resolution Seismic Reflection Richard Miller, Kansas Geological Survey	Time-dependent Coulomb Stress changes Background of the February 6, 2023 Pazarcık (Mw=7.8) and Elbistan (Mw=7.8) Earthquakes in the Southeast Türkiye Murat Utkucu, Sakarya	
10:45	11:05	Using High Frequency Seismic Signal to Give New Information About Shallow Earth and Environmental Hazard Mitigation Mohamed Gamal, Cairo University	Verifying the Effectiveness of Retrofit Measures for Improving the Earthquake Resistance of Buildings through Large-Scale Testing and Dynamic Simulation Roshen Joseph, United Arab Emirates University (UAEU)	
11:05	11:25	Underwater ERT Method to Image Karst Cave Distribution Below the River Water Daopu Wamg, Southern University of Science and Technology	Borehole Vector Gravity for Waterflood Monitoring in Vertical and Horizontal Wells: Feasibility Study using Numerical Conceptual Simulation Model Taqi Alyousuf, Saudi Aramco	
11:25	11:45	Unveiling Hidden History: GPR Survey Reveals Buried Water Well in Liluiyah, Khorfakkan's Historic District Khadija Safa, Sharjah University	Attention Mechanism and Spatial-time Information Assist Well-Logging Lithological Interpretation: An Experiment from Lower Triassic Jialingjiang Formation, East Sichuan Basin, SW China Shan Ren, Chengdu University of Technology	
11:45	12:05	Land Use and Land Cover Mapping using Google Earth Engine: A Comparative Analysis of Machine Learning Algorithms Mubbashra Sultan, United Arab Emirates University (UAEU)		
12:05	13:05	LUNCH BREAK - 1 HR		
		SESSION 8: CASE STUDIES IN ENGINEERING GEOPHYSICS {(SESSION CHAIRS: HAYDAR B	3AKER (UAEU), MOHAMMED FARFOUR (SULTAN QABOOS UNIVERSITY)}	
13:05	13:25	An Integrated Approach of Remote Sensing and DC Resistivity Techniques for Geological an Abdlehalim Ali, United Arab Emirates University (UAEU)	nd Hydrogeological Evaluation in Wadi Systems: A Case Study from the Eastern Desert, Egypt	
13:25	13:45	Passive Seismic for Optimized Geotechnical Design: A Case Study of the Wakrah Pump Stat Myrna Starring, Fugro	ion	
13:45	14:05	Surveys using the Loupe Transient EM System Christopher Leech, Geomatrix		
14:05	14:25	Geophysical Modeling helps Interpret Subsurface Data: Example from North Oman Mohammed Farfour, Sultan Qaboos University		
14:25	14:55	POSTER SES	SSION 6 I EXHIBITION AREA	
14:55	15:15	COFF	FEE BREAK - 20 MIN	
	ş	SESSION 9: METHOD DEVELOPMENT AND MONITORING {(SESSION CHAIRS: HITOSHI MIKADA	A (KYOTO UNIVERSITY), SUSAN WEBB (UNIVERSITY OF WITWATERSRAND)}	
15:15	15:35	Modeling of Scholte Wave for Offshore Seismic Survey Chih-Ping Lin, National Yang Ming Chiao Tung University		
15:35	15:55	High-resolution Tomographic Imaging as a Basis for Geomechanical Assessment Prior to Subsurface Excavation Michael Behm, Geodata Ziviltechnikergesellschaft		
15:55	16:15	Enhanced converted-Surface-Wave Imaging (CSWI) Method for the Detection of an Elongated Empty Space using Challenging Seismic Data Collected at a Desert Site Julian Ivanov, Kansas Geological Survey		
17:30	17:30 19:00 TOUR OF AL JAHLI FORT FOLLOWED BY GALA DINNER AT AL AIN ROTANA HOTEL			



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TIME		PROGRAM DETAILS		
START	END	DAY 4: THURSDAY, 19 OCTOBER 2023 AUDITORIUM, CRESCENT BUILDING		
	SESSION 10: TECHNOLOGY AND METHODOLOGICAL ADVANCES II (SESSION CHAIRS: CHI ZHANG (UNIVERSITY OF VIENNA), CHRIS LEECH (GEOMATRIX EARTH SCIENCE))			
08:00	08:25	SESSION KEYNOTE: RETRIEVING DETAILED SUBSURFACE VELOCITY INFORMATION FROM COMMON-OFFSET GPR AND CMP-STACKED SEISMIC REFLECTION DATA I KLAUS HOLLIGER, UNIL		
08:25	08:45	VLF-EM Anomaly Interpretation by Applying Analytic Signal Haydar A. Baker, United Arab Emirates University (UAEU)		
08:45	09:05	3D DC Resistivity Inversion with and for Metallic Infrastructures using Face and Edge Conductivity Dikun Yang, Southern University of Science and Technology		
09:05	09:35	POSTER SE	SSION 7 I EXHIBITION AREA	
09:35	09:55	COF	FEE BREAK - 20 MIN	
SESSION 11A: TECHNOLOGY AND METHODOLOGICAL ADVANCES III SESSION 11B: TECHNOLOGY ADVANCEMENTS IV {SESSION CHAIRS: ANNA LIM (ARGEO), CHI ZHANG (UNIVERSITY OF VIENNA)} {SESSION CHAIRS: KHALID AL BLOUSHI (UAEU)} {SESSION CHAIRS: ANNA LIM (ARGEO), CHI ZHANG (UNIVERSITY OF VIENNA)} VENUE: AUDITORIUM, ROOM B1001 (AMERICAN CORNER), CRESENT				
09:55	10:05	PRODUCT DEMONSTRATION BY ROBERTSON GEO - 10 MINS		
10:05	10:25	Inverting Seismic Data for High-resolution Near-surface Tomograms Sherif M. Hanafy, King Fahd University of Petroleum and Minerals (KFUPM)	Advances in Spectral Electrical Impedance Tomography (sEIT) Towards Accurate Imaging in the mHz to kHz Frequency Range Haoran (Henry) Wang, Institute of Bio and Geosciences	
10:25	10:45	Geotechnical Imaging in the Urban City using 'Free' Sources and Receivers Tieyuan Zhu, Penn State University	Slowness Vector, Ray-velocity Vector, Traveltime and Raypath of Seismic Body Waves in Viscoelastic Anisotropic Media Bing Zhou, Khalifa University	
10:45	11:05	Towards the Assessment of Passive Seismic Horizontal-to-Vertical Spectral Ratio (HVSR) Surveying for Bedrock Depth Estimation in Texas Mohamed Abdrabou Radwan Mousa, Texas A&M University-Corpus Christi	Feasibility Study of Surface-to-Borehole Electromagnetic Monitoring in Horizontal Wells using Numerical Simulation Taqi Alyousuf, Saudi Aramco	
11:05	11:25	Development of a New DAS Sensor for Recording Full Strain Components Ryoga Kani, Kyoto University	Arabian Nubian Shield and the Saharan meta-craton boundary, East Egypt; Inference from a Long- Mohamed Aldeep, National Research Institute of Astronomy and Geophysics (NRIAG)	
11:25	11:45	Anisotropy Estimation by using Machine-learning Methods Guibin Zhao, Khalifa University		
11:45	12:45	LUNCH BREAK - 1 HR		
	SESSION 12: TECHNOLOGY AND METHODOLOGICAL ADVANCES V {SESSION CHAIRS: STEVE SLOAN (U.S. ARMY ENGINEER RESEARCH & DEVELOPMENT CENTER), JIANGHAI XIA (ZHEJIANG UNIVERSITY)}			
12:45	13:10	SESSION KEYNOTE: AUTOMATION OF SEISMIC SCOUTING WITH ROBOTICS AND MACHINE LEARNING PAVEL GOLIKOV, SAUDI ARAMCO		
13:10	13:30	High-resolution Directional Passive Surface Wave Dispersion Imaging Based on Multiple Signal Classification Qi Liang, China University of Petroleum-Beijing		
13:30	13:50	Structure and Stratigraphy of Al Jaww Plain, Southeastern Al Ain, United Arab Emirates: Implications for Aquifer Systems and Mantle Thrust Sheets Saif Ullah, Khalifa University		
13:50	14:10	Research on Seismic Data Compensation Method Based on Micro-Logging Q Estimation: A Case Study in Desert Area Wang Deying, Research Institute of Petroleum Exploration & Development-Northwest (NWGI)		
14:10	14:30	Improved Full-waveform Inversion based on Sparse Relaxed Regularized Regression Processing of Seismic Data Jiahang Li, Kyoto University		

14:30	15:00	POSTER SESSION 8 EXHIBITION AREA
15:00	15:20	COFFEE BREAK - 20 MIN
	SESSIO	I 13: GEOHAZARDS TO INFRASTRUCTURE {SESSION CHAIRS: AMAN MWAFY (UNITED ARAB EMIRATES UNIVERSITY), MUNJED MARAQA (UNITED ARAB EMIRATES UNIVERSITY)}
15:20	15:40	High-resolution Geophysics for Geohazards Ersan Turkoglu, Saudi Aramco
15:40	16:00	Analysis of GPR Wavefield Characteristics of Road Cavities Rongyi Qian, China University of Geosciences
16:00	16:20	Initial Development of Continuous Volcano Monitoring System Rezkia Dewi Andajani, The University of Tokyo
16:20	16:40	Integrated Geotechnical and Geophysical Methods for assessing Soil Collapse under Bismayah Pumping Station, Southeast Baghdad-Iraq Hussein Abdulrahim Al-Saady, University of Technology-Iraq
16:40	16:50	Closing Remarks by Committee Chairs

POSTER SESSIONS



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DAY 1: MONDAY, 16 OCTOBER 2023 | GREAT HALL

POSTER SESSION 1: THE ROLE OF (ENGINEERING) GEOPHYSICS IN THE ENERGY TRANSITION AND RESPONSE TO CLIMATE CHANGE	POSTER SESSION 2: GROUNDWATER, GEOTHERMAL AND CCUS
{session chair: khaled ahmed (uae university)}	{Session Chair: Khalid Alboushi (UAE University)}
Groundwater Sustainability of the Quaternary Aquifer at the northwestern part of Hafeet Mountain, Al-Ain, United Arab Emirates Abdulaziz Alazzani, United Arab Emirates University (UAEU)	A Review of Stable Oxygen and Hydrogen Isotopes in Groundwater of the UAE and Environmental Impact Saeda Estwani / Hussa Ali, United Arab Emirates University (UAEU)
A Chemical and Isotopic Approach to investigate Groundwater Recharge in a Coastal Aquifer	Audio Magnetotelluric Data for Geothermal Exploration in Midyan Terrane, Northwest of Saudi Arabia
Alaa Ahmed, United Arab Emirates University (UAEU)	Essam Aboud, King Abdulaziz University
Groundwater Study using Audio-magnetotelluric Data at Falaj Mazyad in the Eastern Abu Dhabi Emirate, Al-Ain Region, UAE Fidha Ismail, United Arab Emirates University (UAEU)	Nanoscale Investigation of CO2-Induced Geomechanical Alterations in Shale Reservoirs Ogochukwu Ozotta, University of North Dakota

DAY 2: TUESDAY, 17 OCTOBER 2023 | GREAT HALL

POSTER SESSION 3: GEOHAZARDS AND SUSTAINABLITY	POSTER SESSION 4: TECHNOLOGY/METHOD ADVANCES
{Session Chair: Aman Mwafy (UAE University)}	{Session Chair: Munjed Maraqa (uae University)}
Assessment of Seismic Performance Mitigation Technique for Enhancing the Safety and Serviceability of Existing	Mapping the Moho Depth of the South China Sea Basin: Analysis of Earth's Structure and Evolution based
Transportation Infrastructure in the UAE	on Gravity Inversion Constrained by Seismic Profiles
Jumana Hasina, United Arab Emirates University (UAEU)	Bo Ding, Sun Yat-sen University
Geophysical Investigation and Geotechnical Test to select Proposed Site Building in southeastern Baghdad, Iraq	Time-lapse Inversion of Q Factor and Velocity
Thair T. Al-Samarrai, University of Baghdad	Jianming Chen, Khalifa University
A Data Driven Anti-Noise Full Frequency Expansion Approach for Seismic Data based on Sparse Inversion	A Fast Magnetic Forward Modeling for High Susceptibility considering Demagnetization
Su Qin, Research Institute of Petroleum Exploration & Development-Northwest	Xianzhe Yin, China University of Geosciences
	Mapping Possible Karst voids under Building Foundations in the Gulf using Seismic Surface Waves with the Square Array Void Mapping (SAVM) Technique Fakhar Abbas, Fugro

DAY 3: WEDNESDAY, 18 OCTOBER 2023 | GREAT HALL

POSTER SESSION 5: CASE STUDIES	POSTER SESSION 6: CASE STUDIES
{Session Chair: Mahmoud Abu Saima (uae University)}	{Session Chair: Abdulaziz Mohamed Abdulaziz (UAE University)}
Comparison of the Static and Dynamic Elastic moduli of Carbonate and Evaporitic Rocks from United Arab Emirates (UAE)	Economic Value and Mineral Content of Gabbro Rocks in Wadi Al Qor, North Hatta Area, UAE
Safwan Paramban, United Arab Emirates University (UAEU)	Bahaa Eldin Mahmoud Amin, United Arab Emirates University (UAEU)
Geophysical Methods for Groundwater Rising: Example from North Oman	Introduction & Research on Pestalotiopsis Fungus for Reducing Plastic Rocks Evolution in Geology
Mohammed Farfour, Sultan Qaboos University	Muhammed Asif, University of Kerala
The Characterize of Basement Structure based on Geophysics Evidence in Yulin Area, Central Ordos Basin, China Menglong Xu, Chinese Academy of Geological Science	Seismic Random Noise Attenuation Analysis with Sparse Representation from Shallow Sandstone-Hosted Uranium Deposits Yucheng Huang, Beijing Research Institute of Uranium Geology
Modeling the Subsurface Structure of the Al-Ain Region Using Potential Field Data Hakim Saibi, United Arab Emirates University (UAEU)	

POSTER SESSION 7: CASE STUDIES {SESSION CHAIRS: AMIR GABR (UAE UNIVERSITY)}	POSTER SESSION 8: TECHNOLOGY/METHODOLOGY ADVANCES {SESSION CHAIR: ALAA AHMED (UAE UNIVERSITY)}
Applications of Sentinel-2 Remotely Sensed Data to assist Stratigraphic Subdivision of a Paleogene Carbonate Sequence, UAE-Omanthe Al-Ain REGION, UAE Karim Abdelmalik, United Arab Emirates University (UAEU)	Shallow Structure of the Longmenshan Central Fault Zone Based on Dense Seimis Array Hongyi Li, China Univerisity of Geosciences Beijing
Paleo-environmental and Petrographical Trends within the Eocene to Oligocene Carbonates of the Al-Ain Region, UAE Mahmoud Moustafa Abu Saima, United Arab Emirates University (UAEU)	Unconventional Reservoir Prediction from Well-logging Data with Time-series Machine Learning Models: A Study Case from the Second Sub-member of the Third Member of the Middle Triassic Leikoupo Formation, Central Sichuan Basin, SW China Shan Ren, Chengdu University of Technology
Hydraulic Flow Units (HFUs) Prediction Using Integrated Probabilistic Neural Network (PNN) and Seismic Attributes: A Case Study in Ekofisk Formation, North Sea Abdulaziz Mohamed Abdulaziz, United Arab Emirates University (UAEU)	Application of Non-destructive Testing Technology for Grouting Quality behind Segment Xing-meng Dong/Chen Li, China University of Petroleum
Studying the Demographic Characteristics of Shared E-scooter Users in Abu Dhabi, utilizing OpenStreetMap data: A Geoinformatics Study Didarul Alam, United Arab Emirates University (UAEU)	



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DATE	ACTIVITY
Sunday, 15 October 2023	Icebreaker at UAEU Business Center
Monday, 16 October 2023	Visit to Bait Mohammed Bin Khalifa
Tuesday, 17 October 2023	
Wednesday, 18 October 2023	Tour of Al Jahli Fort followed by Gala Dinner at Al Ain Rotana Hotel
Thursday, 19 October 2023	Field trip to explore the Geo-Engineering Properties of Carbonate Bedrocks of Al-Ain, UAE

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