

The background of the top half of the image is a complex digital visualization. It features a central rectangular area with a blue wireframe topographic map. This map is set against a dark background with glowing orange and yellow lines and patterns, resembling data processing or network connections. In the upper right corner, there is a network diagram with nodes and connecting lines. The overall aesthetic is high-tech and data-driven.

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

Second EAGE Data Processing Workshop

INNOVATION AND ADVANCEMENTS IN MULTI-DOMAIN DATA PROCESSING

6-8 OCTOBER 2025 • BARCELONA, SPAIN

- **First Announcement**

WWW.EAGE.ORG

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OVERVIEW

Building upon the successful first EAGE Data Processing Workshop in Cairo we are excited to explore yet further into the depths of data processing in all its domains. In the first workshop we discussed how Seismic Processing has become a foundation stone for all the activity related to the energy industry of the future and the energy transition. Moving from the evergreen 2D and 3D time processing it has been relentlessly evolving into 4D then 4C, becoming an even larger domain via Data Processing inversion techniques and

calibration to geotechnical integration in a never slowing pace of innovation. The Energy transition with all the requirements from renewables, critical minerals, decarbonisation, transition fossil fuels is demanding of a huge amount of data processing. The demand for de-risking of multiple ventures requires high resolution data processing of a very thin layer portion of our earths crust where the integration of geological and geotechnical data is paramount.

In this second workshop we will be seeking more emphasis on other forms of data processing. For instance, Satellite imageries and data will become more and more widespread as a backbone for accurate site characterisation in the domain of agriculture and forestry allowing the industry to respect the challenging targets of the decarbonisation pathway.

The significant leap forward in data processing in all its domains has been possible via two main enabling factors: Data acquisition technology advancements and the availability of an unprecedented amount of Computing Power. It is this latter aspect which gave us the idea to join forces with our co-conspirators in high performance computing in Barcelona, enabling us to jointly explore new options for data manipulation.

The healthy debate on data processing kicked off in Cairo with valuable input from many experts in their respective fields. Come to Barcelona and enjoy a stimulating discussion which promises to open new insights to data processing being the life blood of the energy industry and beyond!





TOPICS

- Advancements in acquisition technologies and their implications for enhanced data processing.
- Applications for processing from innovative acquisition technologies
- Pushing the boundaries of Data Processing
- Innovation in Seismic Imaging
- How have Data Processing workflows changed in the last few years?
- Addressing Regional Data Processing challenges
- Advancements and future direction of AI/ML
- Advances in Reservoir Characterisation and Reservoir oriented processing
- Challenges and Enhancements in Velocity Model Building
- Processing Applications for the energy transition
- Data PRE-processing and quality
- Bridging between industrial seismic and seismic processing
- Quantification of Data Processing improvements
- Lessons to be learned from Space/ Earth Observation Data Processing
- Earth observation technology in different fields
- Joint Session with HPC: What can we expect from The Computing revolution?

IMPORTANT DATES

Call for Abstracts Open	8 December 2024
Call for Abstracts Close	20 May 2025
Technical Programme Available	17 June 2025
Registration Open	2 June 2025
Early Registration Deadline	2 September 2025

SPONSORSHIP

To view the full range of sponsorship opportunities available at the event, please get in touch at ssu@eage.org.

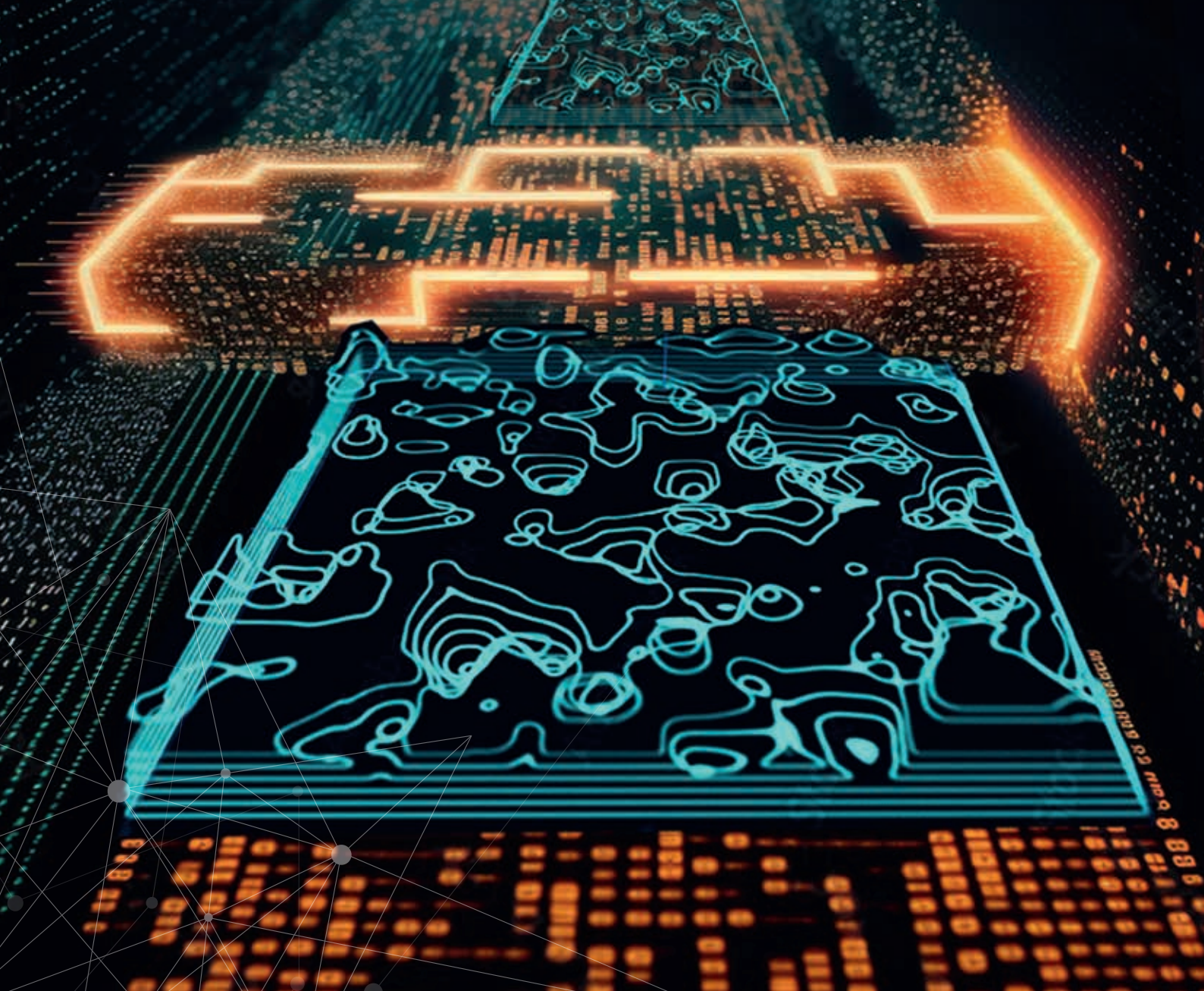


CONTACT

For more information on the workshop, please get in touch with the EAGE MEA team via middle_east@eage.org or +971 4 369 3897.

CALL FOR ABSTRACTS OPEN





EUROPE OFFICE
+31 88 995 5055
EAGE@EAGE.ORG

MIDDLE EAST/AFRICA OFFICE
+971 4 369 3897
MIDDLE_EAST@EAGE.ORG

ASIA PACIFIC OFFICE
+60 3 272 201 40
ASIAPACIFIC@EAGE.ORG

AMERICAS OFFICE
+57 310 8610709
AMERICAS@EAGE.ORG

HEAD OFFICE • KOSTERIJLAND 48 • 3981 AJ BUNNIK • THE NETHERLANDS • +31 88 995 5055 • EAGE@EAGE.ORG

www.eage.org



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