

The background of the top half of the page is a dark blue to black gradient with a glowing network of white and light blue nodes and lines, resembling a molecular or data network. Vertical columns of binary code (0s and 1s) are visible in the background. The EAGE logo is in the top left corner.

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

Second EAGE Workshop on Machine Learning

EXPLORATION AND PRODUCTION

8-10 MARCH 2021 • AMSTERDAM, THE NETHERLANDS

- **Workshop Brochure | Call for Abstracts**

WWW.EAGE.ORG

TECHNICAL COMMITTEE

Shahram Farhadi	Beyond Limits AI
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Artem Kotenev	LUKOIL
James Lowell	Geoteric
Surender Manral*	Schlumberger
Lukas Mosser	Earth Science Analytics
Gillian White	Oil and Gas Technology Centre

*Co-chairs

WORKSHOP OVERVIEW

Machine learning algorithms and techniques have now been applied in almost every area of geoscience with varied results. It is now incumbent for us to examine the two key issues of quality and value in these applications. What are the issues in validating these results? What ROI has machine learning demonstrated? What are the game-changing applications and developments? How can expert knowledge be integrated into these solutions?

The workshop will focus on applications of machine learning and artificial intelligence within the domains of geoscience and engineering. Specialists from academia and leading companies will come together to exchange insights on the latest developments and new technologies in machine learning.

WORKSHOP HIGHLIGHTS:

- Strong focus on practical solutions and business value
- Insightful discussions and cross-disciplinary interaction
- Direct access to world-class experts from academia, service providers and operators

TECHNICAL PROGRAMME

We encourage contributions on a wide range of topics related to exploration and production challenges in hydrocarbons, minerals and geothermal industries and will seek to emphasize how the relationship between data science and the underlying domain sciences can bring value to practitioners in these industries. We encourage participants to share their challenges, successes/failures and visions for the future by submitting papers with a focus on technical innovation and/or business impact.

Latest Developments, New Methods and Technologies

- Machine Learning Techniques and Basic Principles
- Qualitative and Quantitative QC Methodologies
- Hybrid/Cognitive AI and Expert Knowledge
- Model Guarantee

Value Creation and Performance Indicators

- Strategic Anchoring of ML Capabilities
- Knowledge Graphs
- Model Interpretability

Business Processes and Objectives

- Consumption Models: Home-grown, 3rd Party, Consultancy, etc.
- Data Governance: How ML Challenges the Data Management Landscape in Operators

Practical Solutions and Best Practices

- Bringing ML into Production
- Data and Engineering challenges of ML in the Geoscience Domain
- Benchmark Datasets and Case Studies
- Data Sharing Models



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SUBMISSION GUIDELINES

The technical committee invites abstracts of one to two pages. Submissions will be accepted online via the event website at events.eage.org. Please review the guidelines on the event website before submitting your abstract.

IMPORTANT DATES

Abstract Submission Deadline	1 November 2020
Early Registration Deadline	10 January 2021
Regular Registration Deadline	10 February 2021
Machine Learning Workshop	8-10 March 2021

VENUE

TBC
Amsterdam, The Netherlands

SPONSORING

This workshop offers excellent sponsoring opportunities to create high visibility to your company. For more information about sponsoring, please visit the event website or contact us via eage.events@eage.org.

CONTACT

For any questions about the Second EAGE Workshop on Machine Learning, please visit the event website via events.eage.org or contact EAGE Europe Office at +31 88 995 5055 or send us an email via eage.events@eage.org.





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