

EAGE



FIRST EAGE CONFERENCE ON

MACHINE LEARNING

IN LATIN AMERICA

Applications in the O&G Industry,
Challenges and Opportunities

FIRST ANNOUNCEMENT

23-24 SEPTEMBER 2020 • CARTAGENA, COLOMBIA

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Welcome to COLOMBIA



About Cartagena

The 'Heroic City,' as **Cartagena de Indias** is known, brings together the charm of colonial architecture, the excitement of a vivid night life, fascinating cultural festivals, and lush landscapes, to bring you the perfect experience. The city's beaches beckon, inviting you to unwind and enjoy yourself in the refreshing breeze and warm waters of the Caribbean Sea.

Cartagena has to offer excellent cuisine and a thriving hotel and tourist infrastructure.

This fabulous destination holds the secrets of history within its walls, on its balconies, and in the narrow stone walkways that inspired author **Gabriel García Márquez**, who was received the Nobel Prize in Literature in 1982.

Framed by its stunning bay, **Cartagena** de Indias is one of the most beautiful, well-preserved cities in the Americas; a treasure that is currently one of the most heavily frequented tourist destinations in Colombia.

Technical Committee

Xavier Moonan	Touchstone Exploration
Stanley Wharton	Subsurface Imaging Co. Ltd
Camilo Rodriguez	IHS Markit
Jhon Gonzalez	Frontera Energy
Francois Lafarreire	Eliis
Anna Dubovik	Gazprom Neft
Mauricio Araya	Total
Francisco Ortigosa	Repsol
Catalina Herrera	TIBCO
Edson Gomi	Universidad de Sao Paulo
Pablo Guillen Rondon	University of Houston
Juan Pablo Mallarino	Universidad de los Andes
Carlos Andrés Flórez	Universidad de los Andes
Jun Cao	ConocoPhillips

Workshop Overview

Artificial Intelligence is one of the key enabling technologies of Digital Transformation. How well, how quickly, and on what business problems will become the metrics determining who survives and who thrives as new business challenges impinge upon our industry. Physics based solutions have driven incremental performance improvements in our industry for many decades. Sharing success stories, best practices, and numerous challenges will accelerate the attendee's skills in implementing this technology to embrace this new world.

We hope to offer a series of technical presentations as well as an exciting knowledge sharing platform to provide an interactive and integrated learning environment with opportunities to network through panel discussions, technical presentations and hands on activities.

Who should Attend

The Conference intends to offer new perspectives on the Digital Transformation era. Technical Committee invites practitioners, innovators and tech experts to contribute to this Conference and to share success stories, best practices, lay out big innovative ideas and seek new alliances to jointly develop and implement the changes to embrace this new world.



Topics

Abstract submission is now open!, please submit before 11 June 2020. Please submit abstracts on the following topics:

1. Geoscience Applications:

- Seismic processing, model building, and imaging using Machine Learning
- How to account for uncertainties with Machine Learning workflows in Geosciences?
- Applying Machine Learning in oil & gas industry to Improve Subsurface Characterisation
- Estimation of static and dynamic reservoir properties through AI, at well and/or field scale
- Porosity and permeability estimation through AI at well
- Interpreted logs through data analytics.

2. Reservoir Engineering Applications

- Perform a forecast oil production analysis using machine learning algorithms
- Support history matching with ML concepts.
- Visual analytics, how to integrate geostatistic with engineer information in an integrated tool.
- Added-value of Machine Learning techniques to enhance Seismic Data interpretation and rock-properties estimation
- How to handle specificities of Geoscience dataset (scarcity, geospatial information, the mix of resolution, etc) to optimize Machine Learning algorithm
- Integration of Machine Learning algorithm to existing physical-based Geosciences workflows
- Pressure estimation using Deep and ML algorithms
- Machine Learning to Predict Operational Outcomes
- Is it possible to group wells using their static or dynamic information?

3. Operational & Intelligent Fields applications

- Follow the well's behavior daily through the integration of the field information in a warehouse database.
- Optimizing Drilling Operations
- Predictive Maintenance

4. Enabling Technologies & knowledge-transfer

- Facilitating the adoption of Machine Learning techniques for non-data scientists.
- Sharing information across the industry to facilitate R&D work for academics & corporate research center
- Data Analytics using GPUs
- What is Big Data? How to manage all this data?

Sponsoring

EAGE offers excellent sponsoring to create high visibility for companies and institutions and are available to suit all budgets. If you are interested to get maximum exposure at the event, please contact our account Manager Laura Patiño, she will be happy to show you the sponsorship opportunities for this Conference at jpo@eage.org or 57 1 4232948

How to register

We recommend that you register via the online registration form on the EAGE event website (<https://eage.eventsair.com/lam/abstract-submission-and-instructions>). For more information please contact the Bogota Office.

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