

EAGE Conference Workshop?

Title: How to use AI in combination with Interactive Python Note Books

The workshop will result in an ability to construct simple Python algorithms to analyse multi-physics data for determining, for example, seismic facies, reservoir and surface characteristics.

Use will be made of Microsoft Excel, LLM, Weka and Google Colab.

Programme

09:00-09:30 Introduction
09:30-10:00 LLM
10:00-10:30 Weka
10:30-10:45 Coffee Break
10:30-11:30 Ex: Weka Lithology Classification
11:30-11:45 Google Colab
11:45-12:00 Ex: Colab Lithology Classification
12:00-13:00 Lunch
13:00-13:30 Ex Excel Effective Mixture Models
13:30-14:00 Differential Effective Media
14:00-14:30 Ex: Colab DEM Carbonates
14:30-15:00 Seismic Facies
15:00-15:15 Tea Break
15:00-15:30 Ex: Colab Facies Classification
15:30-16:00 Remote sensing data
16:00-16:30 Ex: Classification surface characteristics
16:30-17:00 Discussion & Evaluation

Requirements:

Intermediate level of knowledge of multi-physic methods: seismic, potential field and remote sensing methods.

No skill in Python coding required.