

Geostatistics and Spatial Data Analytics for Reservoir Modeling: 3-day short course

Syllabus Topics

Geostatistics and reservoir modeling
Review of statistics and probability
Introduction to SGeMS
Introduction to dataset

Modeling geological continuity: variograms
Multipoint geostatistics: Building training images

Building high resolution geo-cellular model: facies
Building high resolution geo-cellular model: petrophysical properties
Sequential simulations

Using seismic data to constrain models: facies
Using seismic data to constrain models: petrophysical properties
Co-simulations
MultipointGeostatistics

Sensitivity Analysis
Modeling uncertainty using Distances
History Matching