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Research Interests

Modelling of shallow compaction of fine-grained sediments in the deep-water basins.

Flow upscaling in presence of multi-scale heterogeneous sedimentary structures and mechanic deformational features (e.g. faults, fractures, sand injection) for reservoir and seal characterisation.

Developing numerical approaches and techniques for better simulating coupled behaviours of fluid flow and mechanical deformation of geo-materials.

Pore-space characterisation and flow modelling of geo-materials.

Applications of computational intelligence in geosciences.