



Contribution ID: 26

Type: **Oral Presentation**

## Deep learning aided pore scale modelling

*Monday, 22 May 2023 11:20 (15 minutes)*

Pore scale imaging and modelling have played an enormous role in advancing knowledge in complex transport phenomena within porous media. We discuss new challenges and directions in pore-scale research by integrating artificial intelligence. These include the recreation of porous media images at a super-resolution, multimaterial segmentation and prediction of petrophysical properties with applications in underground reservoir simulation, ore characterisation and groundwater modelling.

### Participation

In-Person

### References

### MDPI Energies Student Poster Award

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### Country

Australia

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### Energy Transition Focused Abstracts

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**Session Classification:** MS09

**Track Classification:** (MS09) Pore-scale modelling