

Visualizing Invisible Flows: Digital Rock Physics for the Future of Earth and Energy

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Schedule : Days and periods are negotiable

First Session : Oct 5 (Mon) 16:20

Meeting Location: Graduate School of Environmental Studies Research Building (A50), Room 209, 2nd Floor



CRUSTAL ROCK STRUCTURES & FLOW

Micro-fractures and pores exist in crustal rocks. As fluids like water and CO₂ flow through these gaps, geothermal energy and mineral resources are formed, and they can also be used for CO₂ storage (sequestration).

In this training, you will experience cutting-edge "Digital Rock" technology. We will scan real rocks with X-ray CT to recreate them as 3D data on a computer and use simulations to unravel how fluids move through these complex pore networks.

Would you like to have fun learning from scratch—with zero prior knowledge—about the forefront of Energy Resources × DX (Digital Transformation), which directly connects to solving global environmental issues and developing future energy?