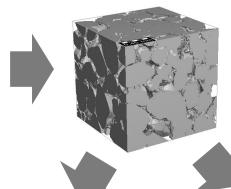# Digital Rock Physics
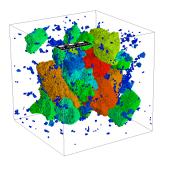# Routine Core Analysis at a Glance

CT scan

Segmentation

Segmentation methods
- Histogram thresholding
- Machine learning
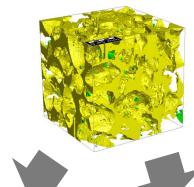- Deep learning

Grain size

Size analysis methods
- Sphere fitting
- Distance transform + Watershed

Pore space
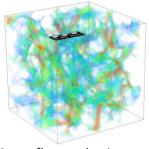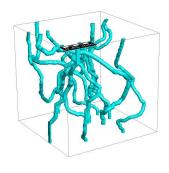
Open vs closed

Absolute permeability

From Darcy's law and Stokes conservation of momentum
- Mean flow velocity map
- Pressure drop map
can be calculated.

Mean flow velocity map

Percolation path

Rigaku

TOOLS & RESOURCES

- [Deep Dive Workshop Series – Digital Rock Analysis](#)

- [GeoDict – The digital material laboratory by Math2Market](#)

- [Digital Rock Physics by Dr. Jens-Oliver Schwartz (GeoDict User Meeting 2020 presentation recording)](#)

- [Workshop: Digital Core Analysis (parts 1-3) using GeoDict 2022](#)

- [Webinar: Computed Tomography for Materials and Life Science – Data Analysis](#)

- [Image Processing Workshop: Processing Images Using ImageJ](#)

CONTACT US

imaging@rigaku.com

LET'S LEARN TOGETHER

All of our past webinar and workshop recordings, application examples, a publication list, and blog articles are available at imaging.rigaku.com.

Subscribe to the email updates to stay informed about new articles, recommended publications and books, and upcoming events.