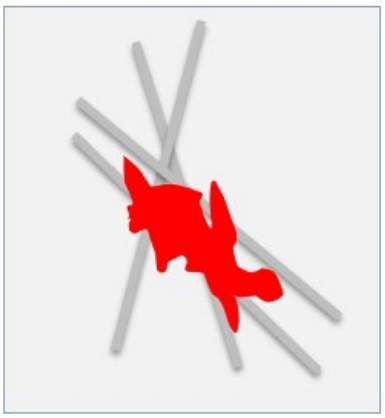
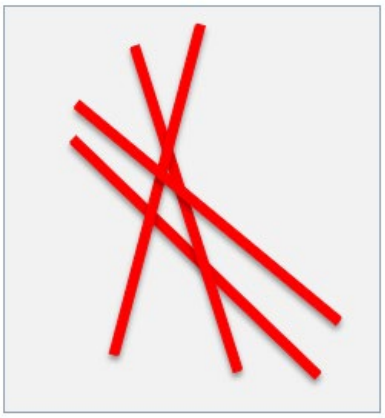
Filtration Analysis
Fiber Media Characterization

GeoDict includes artificial intelligence (AI) tools, **BinderFind** and **FiberFind**, to segment and analyze both binder and fibers in fiber media.

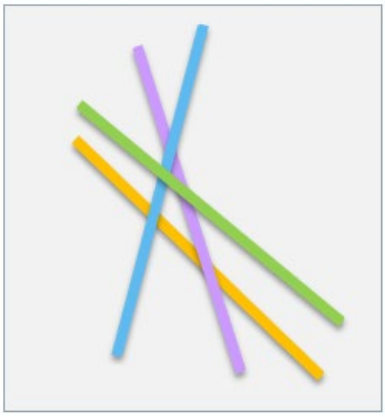
BinderFind AI



FiberFind AI



Fiber analysis



Following Fiber Find, one can perform fiber analysis to calculate the *diameter* and *length* of individual fibers. Additionally, fiber *curliness*, *curvature* and *orientation* are also determined. Once fiber parameters are understood, one can calculate fiber media models and perform filtration analyses.

Further reading:

Fiber Find BinderFind, in GeoDict 2022 User Guide from Math2Market GmbH, Germany, doi.org/10.30423/userguide.geodict2022

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TOOLS & RESOURCES

- Deep Dive Workshop Series – Filtration Analysis
- GeoDict – The digital material laboratory by Math2Market
- Filtration Simulation with GeoDict 2022 by Dr. -Ing. Medhi Azimian (GeoDict User Meeting 2021 presentation recording)
- Workshop: Simulation for Filtration Applications (parts 1-3) using GeoDict 2022
- Non-local means workshop: Processing Images using ImageJ, part 1
- Morphology workshop: Processing Images using ImageJ, part 2

CONTACT US

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