Special Issue

Application of Deep Learning and Computer Vision in Petrographic Images Analysis, 2nd Edition

Message from the Guest Editor

Deep learning is becoming increasingly prevalent in the analysis of petrographic images. This relatively new approach reveals a wide range of possibilities for innovative ideas, groundbreaking research, and customized applications. Mineral identification, segmentation, and autonomous interpretation of thin-section petrographic images are a few examples of the many possibilities. Conversely, new network architectures are being developed that enable a significant increase in usage possibilities in petrography, particularly in petrographic image analysis. I believe this Special Issue will be an excellent place to share research results. Manuscripts relating to artificial intelligence, computer vision, deep learning, object detection, image segmentation, petrographic image analysis, maceral image analysis, and microscopic image analysis of mineral matter are very welcome.

Guest Editor

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Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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