



## Application of Deep Learning and Computer Vision in Petrographic Images Analysis

Guest Editor:

**Dr. Sebastian Iwaszenko**

GIG National Research Institute,  
Plac Gwarków 1, 140-166  
Katowice, Poland

Deadline for manuscript  
submissions:

**closed (30 September 2024)**

### Message from the Guest Editor

Dear Colleagues,

Artificial intelligence and computer vision are becoming indispensable components of our everyday life. This is also particularly true in the case of scientific research, where the application of their achievements not only supports work automation but also creates opportunities for discoveries not possible before.

One such scientific field where computer vision and in particular deep learning is being more and more present is in the analysis of petrographic images. Mineral identification, segmentation, and autonomous interpretation of the thin section petrographic images are only a few examples of many potentials (and nowadays ongoing) applications. Therefore, in this Special Issue, we aim to include original and recent work or reviews in the form of methodologies, technologies, or applications of computer vision and that demonstrate a particular focus on deep learning in petrography. We welcome manuscripts relating, but not limited to, the following areas: artificial intelligence, computer vision, deep learning, object detection, image segmentation, petrographic images analysis, maceral images analysis, and microscopic images of mineral matter analysis.





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**Prof. Dr. Leonid Dubrovinsky**

Bayerisches Geoinstitut,  
University Bayreuth, D-95440  
Bayreuth, Germany

## Message from the Editor-in-Chief

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*Minerals* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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