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Mathematics in Machine Learning-Based Image Processing with **Their Applications**

Guest Editors: **Message from the Guest Editors** Dr. Joanna Czajkowska Dr. Jan Juszczyk Dr. Joanna Jaworek-Koriakowska

Deadline for manuscript submissions: 31 October 2024

Dear Colleagues,

In recent years, we have observed the rapid development artificial intelligence, especially deep learning of architectures within the machine learning research area. being a part of Mathematical Sciences. It has resulted in the increased accuracy of novel solutions as observed in ImageNet challenges. Therefore, machine learning-based algorithms comprise multiple applications in the field of computer vision, especially image-processing tasks in areas that include medical image analysis, autonomous driving, robotic vision, and cybersecurity. These techniques are commonly used for image pre-processing, registration, detection, segmentation, classification, reconstruction, retrieval, and feature extraction. Being robust and repeatable, they appropriately support the scientist in his or her daily work.

This Special Issue aims to collect all the works reflecting the latest developments in machine learning, emphasizing their usage in image analysis. We invite the authors to submit original articles addressing the significant issues and new concepts in the field of image processing.





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Message from the Editor-in-Chief

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