

Special Issue

Industrial Machine Learning with Image Technology Integration

Message from the Guest Editors

The digital transformation of industries is demanding new applications of imaging technologies. Industrial machine learning (ML) with the integration of imaging technologies combines the power of advanced machine learning algorithms, low-level image processing, and computer vision techniques to enhance various industrial applications. From the agricultural industry to large textile companies, tire production, automotive parts manufacturing, and the panel manufacturing industry, among many others, they are currently using vision systems for building Industry 4.0/5.0-ready applications. This Special Issue requests contributions mainly in machine vision systems and machine (deep) learning algorithms and methods involving tasks such as object detection, image classification, and semantic scene segmentation. Researchers are encouraged to submit their work related to different types of industrial applications, including, but not limited to, the following:

- Quality control and inspection;
- Predictive maintenance;
- Automation and robotics;
- Supply chain and inventory management;
- Safety and compliance.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2025)



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About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

Editor-in-Chief

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