



Industrial Machine Learning with Image Technology Integration

Guest Editors:

Prof. Dr. Miguel Angel Guevara Lopez

Department of Systems and Informatics, Setubal School of Technology, Polytechnic Institute of Setubal, Campus do IPS, Estefanilha, 2910-761 Setubal, Portugal

Dr. Luís Gonzaga Mendes Magalhães

Department of Information Systems (DSI), School of Engineering, University of Minho, Campus Azurém, 4800-058 Guimarães, Portugal

Dr. Edel Bartolo Garcia Reyes

Department of Computer Vision, Interaction and Graphics, Instituto CCG/ZGDV, Universidad del Minho, Campus Azurém, Edifício 14, 4800-058 Guimarães, Portugal

Deadline for manuscript submissions:

28 February 2025



mdpi.com/si/210112

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:

1. Quality control and inspection;
2. Predictive maintenance;
3. Automation and robotics;
4. Supply chain and inventory management;
5. Safety and compliance.



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Raimondo Schettini

Department of Informatics,
Systems and Communication,
University of Milano-Bicocca,
viale Sarca, 336, 20126 Milan, Italy

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.

Author Benefits

Open Access:— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, ESCI (Web of Science), PubMed, PMC, dblp, Inspec, Ei Compindex, and other databases.

Journal Rank: CiteScore - Q1 (Computer Graphics and Computer-Aided Design)

Contact Us

Journal of Imaging Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jimaging
jimaging@mdpi.com
X@J_Imaging_MDPI