

Special Issue

Advanced Methods and Applications with Deep Learning in Object Recognition, 2nd Edition

Message from the Guest Editors

We are pleased to announce the Second Edition of the Special Issue “Advanced Methods and Applications with Deep Learning in Object Recognition”. This issue focuses on advanced deep learning methods for object detection, recognition, segmentation, and multi-object tracking, with applications in video surveillance, logistics, search and rescue, UAV monitoring, and other challenging scenarios. We welcome contributions on CNN-based detectors, two-stage and one-stage models, transformer-based architectures, open-vocabulary object detection, vision-language foundation models, and segmentation frameworks such as SAM. Topics of interest include robust detection under low resolution, changing viewpoints, small or dense targets, imbalanced data, semantic ambiguity, prompt sensitivity, multimodal learning, and fair evaluation using metrics such as IoU, mAP, MOTA, IDf1, and HOTA. Contributions presenting novel mathematical algorithms and architectures are especially encouraged.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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