

Special Issue

Intelligent Image and Video Processing: Quality, Compression and Vision Applications

Message from the Guest Editor

Intelligent image and video processing regarding quality, compression and vision applications represent a paradigm shift in signal processing, driven by the synergistic innovation of deep learning and multi-modal fusion technologies. This transformation fundamentally redefines traditional theoretical frameworks and methodological systems, manifesting in three key dimensions: from local optimization to global perception in quality assessment systems, from general-purpose computing to edge intelligence in architectural paradigms, and from single-modal analysis to cross-modal understanding in cognitive approaches. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Image Quality Enhancement Techniques;
- Low-Light/Super-Resolution Reconstruction;
- Model Compression Paradigms;
- Knowledge Distillation Techniques;
- Visual Inspection and Measurement;
- Surface Defect Detection;
- Industrial Anomaly Detection;
- Vision-Based Industrial Applications.

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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