# Special Issue

# Image and Video Processing Based on Deep Learning

### Message from the Guest Editor

This Special Issue (SI) aims to present the research achievements of new theories and methods of image and video processing based on deep learning. In recent years, deep neural networks have proved capable of extracting complex statistical features and efficiently learning their representations, allowing them to perform well across a wide variety of computer vision tasks. However, various computer vision tasks based on deep learning still have many limitations because of its poor interpretability, reliance on large amounts of training data, trading complex computations for performance. We look forward to the latest research findings that suggest theories and practical solutions for various computer vision tasks based on deep learning. The topics of interest include, but are not limited to, the following:

- Synthesis, rendering, and visualization.
- Compression, coding, and transmission.
- Detection, recognition, retrieval, and classification.
- Restoration and enhancement.
- Motion estimation, registration, and fusion.
- Image and video interpretation and understanding.
- Stereoscopic, multi-view, and 3D processing.
- Image and video quality models.
- Learning with limited labels.

### Guest Editor

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### Deadline for manuscript submissions

closed (15 March 2025)

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## 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 guest-edited by leading experts in selected topics of interest.

## Editor-in-Chief

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