

Special Issue

AI-Driven Digital Image Processing: Latest Advances and Prospects

Message from the Guest Editors

Digital Image Processing significantly impacts our ability to handle visual information and has become crucial in the development of technology across varied fields. This area's recent progress is mainly fueled by advancements in artificial intelligence (AI), especially deep learning, driving a shift towards more intelligent image processing systems. Articles and reviews on image processing are welcome. The specific topics to be addressed include, but are not limited to, the following:

- Semantic segmentation and instance segmentation;
- UAV/UAS/BEV/Satellite 3D reconstruction and semantic perception;
- Multimodal Large Models;
- Multimodal data collaborative analysis and processing;
- Video processing;
- Image processing for Medical Imaging and Deep Space Exploration;
- Benchmark datasets for image processing and large models;
- Semi-/Self-supervised image analysis;
- Few-shot/Zero-shot image processing;
- Image-processing-based applications;
- Multi-source sensing data for urban analytics.

Guest Editors

Dr. Guanzhou Chen

Dr. Kun Zhu

Dr. Jinzhou Cao

Deadline for manuscript submissions

closed (15 December 2024)



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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

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