Special Issue

Application of Artificial Intelligence to Image Processing: Advantages and Prognosis

Message from the Guest Editors

The tremendous progress that has recently been made in artificial intelligence (AI) has stimulated numerous novel concepts and technologies in image processing, including multimodal data fusion, real-time image analysis, and high-dimensional image processing. This Special Issue aims to establish a platform for researchers to share their latest research outcomes and innovations in the emerging field of artificial intelligence for image processing. We welcome contributions to both theoretical fundamentals and practical applications related to AI-driven image processing. Particularly, we encourage submissions that explore the use of generative and self-supervised learning to address image synthesis and interpretation. We also encourage submissions focusing on physics-informed machine learning in image processing, integrating physical principles and data statistics. In addition, we strongly welcome submissions about the application of AI-assisted image processing to science and engineering problems with the consideration of efficiency and security.

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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.

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