# Application of Artificial Intelligence to Image Processing: Advantages and Prognosis

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## Message from the Guest Editors

Dear Colleagues,

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.

**Special** Issue

## Editor-in-Chief

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## Message from the Editor-in-Chief

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