technologies

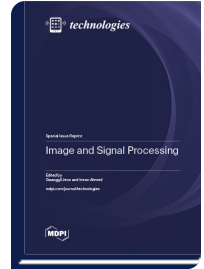*Special Issue Reprint*

Image and Signal Processing

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Edited by
Gwanggil Jeon
Imran Ahmed

The aim of this reprint is to immerse readers in the forefront of technological innovation within image and signal processing. This collection of 14 articles explores a wide array of applications and methodologies, from cutting-edge deep learning techniques to practical solutions addressing real-world challenges in industries such as agriculture, healthcare, transportation, and cultural heritage preservation.

The reprint highlights advancements like intelligent systems for disease detection, enhanced object detection models for industrial safety, and lightweight networks for autonomous driving. It delves into topics such as terrain modeling, dynamic colorimetric analysis, and video compression tailored for vehicular communication. By combining foundational research with applied solutions, the articles demonstrate the vast potential of image and signal processing to drive progress across diverse domains. Through the insights of leading experts, this reprint not only showcases innovative solutions but also envisions the future trajectory of the field. It emphasizes sustainable approaches, efficiency, and the integration of advanced technologies to meet global challenges. The collection provides readers with a unique opportunity to explore how these transformative tools are reshaping industries while fostering sustainable development and a better quality of life.

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