Special Issue

Advanced Image Recognition and 3D Imaging Technologies and Their Integration

Message from the Guest Editor

Image recognition, 3D modeling and image sensing technologies are evolving at an unprecedented pace. Recent advancements in image sensing devices—such as RGB cameras, LiDAR, and thermal and near-infrared imaging—along with their associated data analysis techniques, have significantly lowered the barrier to utilizing sophisticated image-based technologies. Today, it is becoming increasingly feasible for users across various domains to easily implement image recognition and 3D reconstruction in practical settings. This Special Issue aims to present a comprehensive overview of cutting-edge research and technological progress in image sensing, image recognition, 3D imaging, and point cloud processing. We especially welcome contributions that explore the integration of these technologies and their practical applications across disciplines.

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Deadline for manuscript submissions

20 March 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/248115

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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