Special Issue

Deep Learning Technology and Image Sensing: 2nd Edition

Message from the Guest Editors

Deep learning-based computing technology is significantly improving the quality and reliability of image recognition data today. For example, in the field of autonomous driving, the performance of sensor themselves is also increasing through deep learning based on sensor and data fusion between front camera sensors and radars. Other deep learning-based computer vision technologies help to improve the performance of smartphone camera applications such as face recognition, panorama photography, depth/geometry detection, and high-quality magnification and detection. Still, other computer vision technologies have come to accurately recognize human behavior and posture. This allows for the use of human behavior as a tool for human–computer interfaces (HCI) in applications such as the Metaverse. This Special Issue covers all topics related to applications using deep learning-based image and video sensing technologies.

- Deep learning-based image sensing techniques;
- Deep learning-based video sensing techniques;
- Deep learning-based computer vision algorithms;
- Deep learning-based signal processing techniques;
- Deep learning-based computational photography.

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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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