Special Issue

Neural Networks and Deep Learning in Image Sensing

Message from the Guest Editors

Many deep-learning-based ISP technologies have recently been developed and successfully applied to image post-processing techniques such as conversion of mobile photos to DSLR-quality photos, automatic night shots, demosaicing, denoising, dehazing, deblurring, super resolution, high dynamic range imaging, digital image stabilization, etc. Furthermore, deep-learning-based ISP technologies have also been successfully applied to images captured by multispectral filter arrays (MSFA) to enhance the resolution and sensitivity by integrating additional information received from spectrum-wide bands. Such ISP technologies can be employed in various applications, such as military, surveillance, remote sensing, and scientific imaging applications. The goal of this Special Issue is to highlight and invite state-of-the-art research papers related to deep-learning-based image processing and computer vision techniques in image sensing. Topics include but are not limited to:
Deep-learning-based image signal processing techniques;
Deep learning-based computational photography;
Deep learning based computer vision algorithms.

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Message from the Editor-in-Chief

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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