Special Issue

Image Denoising and Image Super-resolution for Sensing Application

Message from the Guest Editors

Due to the various factors during the image acquisition and transmission process, such as the poor imaging system, storage and bandwidth limitation, and insufficient computational power, the RAW sensor data and the processed images are often corrupted by noise and have low spatial resolution. Image denoising and image super-resolution, as two classical and yet active low-level vision research topics, can be applied on the RAW sensor data and the processed images to improve the image quality and the accuracy of subsequent high-level vision tasks. This Special Issue will present recent advances of image denoising and image super-resolution in sensing applications. Specifically, novel model-based methods, learning-based methods, or hybrid methods such as plug-and-play methods and deep unfolding methods for image denoising and image super-resolution will be of special attention.

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Deadline for manuscript submissions

closed (15 June 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/120603

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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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