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.

Guest Editors

Dr. Kai Zhang

Department of Information Technology and Electrical Engineering, ETH Zurich, ETH Zentrum, 8092 Zurich, Switzerland

Dr. Dongwei Ren

School of Computer Science and Technology, Harbin Institute of Technology, Harbin 150001, China

Deadline for manuscript submissions

closed (15 June 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 9.4
Indexed in PubMed

mdpi.com/si/120603

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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