# **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-theart 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.

### **Guest Editors**

Prof. Dr. Sukho Lee

Division of Computer Engineering, Dongseo University, 47 Jurye Road, Sasang-gu, Busan 47011, Republic of Korea

Prof. Dr. Dae-Ki Kang

Machine Learning/Deep Learning Research Labs, Department of Computer Engineering, Dongseo University, Busan 47011, Korea

# Deadline for manuscript submissions

closed (31 December 2021)



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

mdpi.com/journal/ sensors





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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

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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