

Topical Collection

Advances in Deep-Learning-Based Sensing, Imaging, and Video Processing

Message from the Collection Editors

Today, with the rapid development of advanced deep learning models and techniques, such as GAN, DNN, RNN, and LSTM, and the increasing demands around the effectiveness of visual signal processing, new opportunities are emerging in advances in deep-learning-based sensing, imaging, and video processing. This Special Issue aims at promoting cutting-edge research along this direction and offering a timely collection of works for researchers. We welcome high-quality original submissions related to advances in deep-learning-based sensing, imaging, and video processing. Topics of interest include, but are not limited to

- Deep learning theory, framework, database, and learning optimization;
- Deep-learning-based remote sensing, multispectral, and/or high spectral sensing;
- Deep-learning-based computational imaging and pre-processing;
- Deep-learning-based visual perceptual model and quality assessment metrics;
- Deep-learning-based image/video compression and communication;
- Deep-learning-based 3D/multiview sensing, imaging, and video processing;
- Deep-learning-based depth sensing and estimation;
- Deep-learning-based image/video rendering, reconstruction, and enhancement;
- ...

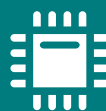
Collection Editors

Prof. Dr. Yun Zhang

Prof. Dr. Sam Kwong

Prof. Dr. Xu Long

Prof. Dr. Tiesong Zhao



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/71459

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

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

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.

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)