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

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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 opputunities 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;
- ...

Topical Collection

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Message from the Editor-in-Chief

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