Special Issue

Deep Learning Technologies for Machine Vision and Audition

Message from the Guest Editors

In recent years, due to the rise of parallel-processing hardware (i.e., graphical processing units (GPUs)), we have seen the emergence of deep neural network architectures that attempt to emulate the vastness and complexity of the human brain in order to match its performance. This is particularly evident in machine vision and audition applications, where the emergence of deep learning techniques has boosted the performance of traditional shallow neural network architectures. The aim of this Special Issue is to present and highlight the newest trends in deep learning for machine vision and audition applications. This may include but is not limited to:

- Deep learning architectures;
- Deep learning image and audio classification;
- Deep learning object detection;
- Deep learning semantic segmentation;
- Deep learning image enhancement;
- Deep learning music information retrieval tasks;
- Deep learning audio-visual source separation;
- Deep learning audio-visual enhancement;
- Deep learning for audio-visual scene analysis;
- Deep learning for audio-visual emotion recognition;
- Deep learning for audio-visual face analysis.

Welcome your contribution.

Guest Editors

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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