Special Issue

Audio Signal Processing for Sensing Technologies

Message from the Guest Editor

Sound is a pressure wave created by a vibrating object. Through the sound, it is possible to infer information from our environment with applications in multiple scenarios in daily life, automation, quality control, etc. Audio signal processing has been proven as a powerful tool for audio sensing through the extraction of various types of features in both time and frequency domains from audio signals and applying machine learning techniques in recognizing the different sound events. Real-world environments rarely present a good signal to noise ratio, and frequently, more than one sound source is playing at the same time, which complicates the necessary digital processing as well as the classification and detection stages. In recent years, the same deep learning techniques that have been employed to vision problems have been successfully adapted to sound classification problems, improving recognition in unconstrained acoustic environments and constituting an important line of research. The aim of this Special Issue is to bring together innovative developments and applications in audio sensing, and it is open to all researchers.

Guest Editor

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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.

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