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## Intelligent Sensors Based on Signal Processing for Speech Enhancement and Recognition

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### **Message from the Guest Editors**

Intelligent sensors based on signal processing for speech enhancement and recognition are very important in many areas, such as voice communication and human–machine speech interfaces. However, in these applications, the signal of interest picked up by microphone sensors is inevitably contaminated by unwanted effects such as additive noise, reverberations, and interferences, which impair not only the fidelity and quality of the signal of interest but also the reliability of automatic speech recognition. Speech enhancement algorithms with intelligent sensors and intelligent sensor arrays then have been widely studied to deal with those adverse effects, enhancing the signal of interest from its corrupted observations. Moreover, many pieces of research with a growing interaction between signal processing and machine learning, especially deep learning, have shown the advantages of combining these methods in speech enhancement and recognition. This Special Issue aims to bring together leading researchers in the speech enhancement and recognition fields, thus providing advances in exploring methods of signal processing and deep learning.



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**Special** Issue



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## Message from the Editor-in-Chief

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