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Acoustic Event Detection and Sensing

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Message from the Guest Editor

Dear Colleagues,

Recently, there have been many research works undertaken using various types of sensors such as cameras, gyro sensors, chemical sensors, and so on to provide better quality of life to the users. Especially, acoustic sensing is one of five senses through which human beings interact with nature, and it is somewhat more important than visual sensing when the visual sensing from video cameras is unreliable. For example, acoustic sensing signals can be used for surveillance systems to detect and localize ambient sounds in order to protect people in danger, including rescue voice, car crashes, explosions, etc.

In this Special Issue, we focus on approaches based on machine learning or deep learning in acoustic event detection and sensing, including indoor or outdoor activity monitoring, emergency or event detection like fire alarms or patients falling in hospitals, and the localization of acoustic sources for contextual information extraction.

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Prof. Dr. Hong Kook Kim
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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