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Challenges and Future Trends of Magnetic Sensors

Guest Editor:

Prof. Dr. Galina V. Kurlyandskaya

Department of Magnetism and Magnetic Nanomaterials, Ural Federal University, Yekaterinburg 620083, Russia

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Message from the Guest Editor

As an important instrument that can convert a sound signal into electrical signal, acoustic sensors are widely used in various fields such as healthcare, geophysics, and agriculture. Based on different theories, there are two kinds of acoustic sensitivity, namely, piezoelectric acoustic sensors and capacitive acoustic sensors. In addition, fiberdistributed acoustic sensors as instruments are becoming an interesting research issue in acoustic field analyzing. Different acoustic sensors are sensitive in different frequency ranges. Ultrasound, whose frequency is over 20 kHz, is a common spectrum in research, allowing us to perform activities such as health monitoring and non-destructive material testing. The signal from sensors can be handled through an advanced intelligent algorithm.

This Special Issue shall present articles as an overview across advanced acoustic sensing technology, such as acoustic sensitivity, piezoelectric transducer, capacitive acoustic sensors, and distributed acoustic sensors, in recent years.

Submission of both review articles and original research papers relating to piezoelectric transducer on health monitors will be much appreciated.













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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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