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Novel Trends in Self-Powered Sensing and Its Applications in Civil Infrastructure

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Message from the Guest Editor

Rapid advancements in intelligent monitoring systems have led to the invention of various wireless sensing technologies. Recently, a new generation of wireless sensor networks based on self-powered sensing has become a reality by bridging the gap between the harvested energy and the energy required for sensing, computation, storage, and communication. Self-powered sensors are increasingly being used as promising solutions to conventional wireless sensor networks in civil infrastructures for applications, such as structural health monitoring and condition transportation infrastructure, corrosion assessment. prediction in reinforced concrete structures, etc. It is anticipated that utilization of self-powered sensing will increase due to their unique abilities to efficiently harvest the needed power from the signal being sensed as well as from other energy sources (e.g., ambient vibrations, solar which will energy, etc.). result in structural/infrastructural health monitoring and condition assessment in smart cities.

This Special Issue will overview the research progress in novel trends in self-powered sensing technology in civil infrastructure













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