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Vibration-based Energy Harvesting Techniques via Smart Materials and Structures

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Message from the Guest Editors

Smart cities are entering a new era, in which information and communication technologies are used to enhance the quality and performance of urban services. The evolution of IoT technologies to increase human interaction will require a fundamental change that enables the vast deployment of sensors everywhere. One viable solution is to autonomously harness energy from the ambient environment. With the ongoing development of wireless sensor networks and portable electronic devices, energy harvesting from ambient sources using various smart materials and structures has received significant research attention. This Special Issue aims to bring together research efforts on this topic, and we encourage that all papers in this Special Issue consider various aspects of vibration-based energy harvesting techniques using smart materials and structures.