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Modeling and Analysis of Energy Harvesters

Guest Editors:

Prof. Dr. Abdessattar Abdelkefi

Department of Mechanical and Aerospace Engineering, New Mexico State University, Las Cruces, NM 88003, USA

Dr. Grzegorz Litak

Department of Automation, Lublin University of Technology, 20618 Lublin, Poland

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Message from the Guest Editors

Dear Colleagues,

Vibrational energy harvesting was invented to provide a power supply to small monitoring devices from ambient vibrations. The development of this field was stimulated by increasing the demands for the powering of portable electronics, and extending the battery life. Proposed solutions consisted of a mechanical resonator and coupled transduces changing the mechanical energy into electrical power. In the last decade, energy harvesting has undergone spectacular changes through the application of nonlinear methods, in order to broaden the frequency input. Finally, new devices are not limited to the linear resonance frequency; they offer not only frequency range broadening via inclinations of the resonance curves, but also varieties of new nonlinear resonances for large enough inputs. This Issue will provide the modelling and analysis of nonlinear energy harvesting solutions, and feature their benefits by considering systems from a nano-scale to macro-scale.

Dr. Abdessattar Abdelkefi Prof. Grzegorz Litak *Guest Editors*











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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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