**Session Title**: Nonlinear Dynamics in Energy Harvesting

**Introduction**:

The goal and theme of the proposed special session.

Among the myriad of challenges faced by researchers in this domain, understanding and harnessing the complexities of nonlinear dynamics emerges as a pivotal area of focus. To delve deeper into this fascinating intersection of physics, engineering, and applied mathematics, we are pleased to announce a dedicated sub-conference within our esteemed international meeting: "Nonlinear Dynamics in Energy Harvesting."

This sub-conference aims to bring together leading experts, researchers, and industry professionals to explore the latest advancements, theoretical insights, and practical applications related to nonlinear dynamical phenomena in energy harvesting systems. From vibration-based harvesters leveraging chaotic dynamics to piezoelectric materials exploiting resonant frequencies, the symposium will cover a broad spectrum of topics that underscore the intricate interplay between system nonlinearity and energy conversion efficiency.

**Topics**:

* Nonlinear vibration-based energy harvesting
* Chaos theory applications in energy harvesting systems
* Bifurcations and stability analysis in energy harvesting devices
* Nonlinear damping techniques in energy harvesting
* Applications of nonlinear dynamics in energy harvesting

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