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Design of Piezoelectric Actuator and Sensor Configurations Implemented in Operational Environment

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Deadline for manuscript submissions:

closed (25 August 2025)

Message from the Guest Editors

Dear Colleagues,

Piezoelectric transducers have been thoroughly studied in the last 35 years, mainly as part of configurations for applications in structural dynamics, SHM, and acoustics. While research interest in the use of piezoelectric actuators and sensors for vibration sensing and damping, energy harvesting, and structural health monitoring is continuously rising, their implementation in operating structures has yet to be established accordingly.

This Special Issue is dedicated to the design of configurations and devices incorporating piezoelectric transducers to be implemented in an operational environment. High-quality papers are invited within a wide range of scientific fields, such as structural vibrations, energy harvesting, structural health monitoring and fault detection, power production from aeroelastic loading, acoustics, robotics and control, wearable devices, biomedical applications, sensor fatigue, morphing structures, etc. Fields of application include but are not limited to aircrafts/rotorcrafts, automotive and railway, wind turbines, robots, naval applications, aerospace, biomedical implants, civil engineering applications, etc.



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Special Issue



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Message from the Editor-in-Chief

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