Special Issue

Design of Piezoelectric Actuator and Sensor Configurations Implemented in Operational Environment

Message from the Guest Editors

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.

Guest Editors

Dr. Theofanis S. Plagianakos

Control Systems Lab, School of Mechanical Engineering, National Technical University of Athens, 15780 Athens, Greece

Dr. Nikolaos A. Chrysochoidis

Research and Teaching Faculty, University of Patras, Patras, Greece

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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