

Special Issue

N/MEMS Intelligent Structures: Design, Manufacturing, and Control

Message from the Guest Editors

The past few decades have witnessed revolutionary progress in N/MEMS technologies and applications; one of the most promising directions is the wider uses of intelligent structures in such fields as actuators, sensors, energy harvesters, and versatile micro robots for diverse applications in the future. As a result, emerging issues in the design, manufacturing and control of N/MEMS devices partially or wholly composed of smart materials and structures have attracted huge amounts of attention. Finite element analysis, analytical method analysis and experimental validation of intelligent structures have proven to be effective approaches to comprehensively understanding the physical and mechanical behaviors of these N/MEMS devices. The aim of this Special Issue is to explore the recent advances in the field of N/MEMS intelligent structures and systems for medical devices, micro robots, flexible electronics, chip-scale spacecraft/aircraft, etc. Full papers, reviews and communications on the design, modeling, manufacturing, experimentation and control of N/MEMS intelligent structures are all welcome.

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