

Special Issue

Active Noise and Vibration Control Applications: Latest Achievements, Challenges and Prospects

Message from the Guest Editors

Dear colleagues, Active technologies have reached maturity and large-scale application in automotive and industrial machinery. Active noise control systems are offered on demand for luxury cars and use anti-noise sound fields generated by loudspeakers. Additionally, active devices can be optionally integrated to adapt the mechanical impedance of suspensions (motor, chassis, wheels, etc.), thereby reducing vibration propagation toward passengers. Contrary to these mature fields of application, the first experiences in aeronautics show these technologies cannot be directly transferred to aircraft. Despite the large number of publications, active noise control (ANC) and active vibration control (AVC) systems are still used sporadically in modern aircraft. Control electronics and miniature vibration actuators and sensors would also be of considerable interest. This Special Issue welcomes the latest achievements, challenges, and prospects for novel actuators, sensors, control strategies, and applications of active noise and vibration control in the field of aeronautics and automotive and industrial systems.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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