

Special Issue

Active and Passive Safety and Noise, Vibration, and Harshness (NVH) of Intelligent Vehicles

Message from the Guest Editors

This Special Issue aims to explore the state-of-the-art advancements in both active and passive safety systems and their integration with NVH in intelligent vehicles. Active safety systems, such as collision avoidance, adaptive cruise control, and lane-keeping assist, aim to prevent accidents by intervening in real-time to assist the driver or take over critical functions. Research topics that are of interest for this Special Issue include but are not limited to the following: Autonomous driving safety mechanisms and decision-making algorithms. Integration of machine learning and sensor fusion in active safety. Collision avoidance systems and advanced driver assistance systems. Structural design improvements for crashworthiness. Impact analysis and occupant protection in various crash scenarios. Advancements in electric, hybrid, and internal combustion engines. Integration of engine technologies in autonomous and electric vehicles. NVH control methods for electric and autonomous vehicles. Vibration reduction technologies for enhanced ride comfort. Noise isolation techniques in cabin design. Acoustic modeling and simulations for interior noise control.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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