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Aerodynamic Noise Research of High Speed Trains

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Deadline for manuscript submissions:
closed (10 March 2023)

Message from the Guest Editors

Dear Colleagues,

It is our pleasure to invite you to contribute to this Special Issue through the submission of research results concerning the domain of the aerodynamic noise of high-speed trains. The purpose of this Special Issue is to highlight the latest enhancements in the research of aerodynamic noise and corresponding reduction measures of high-speed trains. Aerodynamic noise has attracted a lot of attention in recent years due to being a major part of train noise when the running speed exceeds 300 km/h, becoming a bottleneck for the design of new high-speed trains. The discovery of aerodynamic noise mechanisms and the reduction in acoustic emissions are topics of interest in the transportation industry, having a direct impact on surrounding amenities and commercial success. Topics to be covered in this Special Issue deal with the computational, experimental and data analysis of noise and vibrations caused by high-speed trains, also covering, but not limited to, topics such as active noise control and the vibroacoustic properties of materials, and also articles introducing new approaches and methodologies.

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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.

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