Special Issue

New Insights into Train Aerodynamics

Message from the Guest Editors

The application of various infrastructure components is essential for the operation of high-speed railways due to a variety of constraints ranging from the environmental to the technical. In the transition region between different infrastructures, the pressure field and aerodynamic loads of high-speed trains change rapidly under strong crosswind conditions as the aerodynamic environment switches. High-speed trains are vulnerable to safety risks from transient aerodynamic impacts, and the stability of trackside structures in the area can also be threatened. In recent years, the predictive ability of new experimental and numerical simulation techniques in aerodynamics has been widely recognized, producing valuable results. This upcoming Special Issue of the journal *Applied Sciences*, entitled "New Insights into Train Aerodynamics", aims to collect novel contributions covering a wide range of research topics in train aerodynamics.

Guest Editors

Dr. E Deng
Dr. Weichao Yang
Dr. Zhengwei Chen

Deadline for manuscript submissions

closed (30 September 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/165180

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

About the Journal

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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

MDPI