

# Special Issue

## Applied Aerodynamics

### Message from the Guest Editors

This Special Issue, “Applied Aerodynamics,” aims to consolidate the latest research bridging fundamental fluid dynamics and practical applications. We invite submissions that address challenges across diverse fields, from automotive and aerospace engineering to turbomachinery. We particularly welcome studies that utilize advanced numerical modeling or novel experimental methods to elucidate complex flow mechanisms. Potential topics include, but are not limited to, the following:

- Aerodynamics of High-Speed Vehicles: Flow analysis of aircraft, projectiles, high-speed railways, and Hyperloop.
- Turbomachinery: Aerodynamic performance of turbines, compressors, and pumps.
- Flow Physics and Thermodynamics: Compressible/incompressible flows, shock waves, boundary layer transition, turbulence, and convective heat transfer.
- Computational Methods: CFD, turbulence, and numerical algorithms.
- Experimental Techniques: Flow visualization, measurements, and wind tunnel testing methodologies.
- Multiphysics and Optimization: Fluid–Structure Interaction, aeroacoustics, flow control, and aerodynamic shape optimization.

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### Guest Editors

Dr. Minki Cho

Dr. Suyong Choi

Dr. Jaeheon Choe

Dr. Yejun Oh

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### Deadline for manuscript submissions

30 November 2026



## Applied Sciences

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## 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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