

# Special Issue

## New Results in Wind Tunnel Testing

### Message from the Guest Editor

To successfully design the aerodynamics of new modern aircraft, it is necessary to know the accurate aerodynamic characteristics of the whole aircraft as well as of its individual constituent parts. Since there is still no completely accurate mathematical model of turbulent flows, we cannot completely solve the aerodynamic design problem by computer simulation and calculation only. We still have to solve many problems related to aerodynamic design by performing tests in wind tunnels. However, wind tunnel simulation is connected with many problems that cause distortions in the flow conditions around the tested models, which ultimately results in the inaccuracy of the measured aerodynamic values. There are many reasons for this, but it is quite understandable that even the best wind tunnels cannot provide conditions that accurately simulate flows around the model that are identical to the flows in the free air. Therefore, resolving the problem related to the definition and elimination of wind tunnel wall interference is a continuing task requiring experimental and theoretical research, either during the construction of new wind tunnels or during their use.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 September 2025)



## Aerospace

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