## **Special Issue**

### Computational Aerodynamics and Fluid Dynamics: Trends and Challenges

#### Message from the Guest Editors

The Special Issue explores the evolving domain of computational aerodynamics and fluid dynamics, investigating the latest trends and confronting modern challenges in these disciplines. From optimizing aircraft design to refining weather prediction models, computational methods have transformed our comprehension and manipulation of fluid flows. This collection of articles showcases state-of-the-art research, emphasizing advancements in numerical algorithms, high-performance computing, turbulence modeling, and multiphysics simulations. Additionally, it addresses evolving challenges such as enhancing accuracy, quantifying uncertainties, and integrating artificial intelligence. By synthesizing theoretical insights with practical applications, this Special Issue offers a comprehensive overview of the current landscape and lays the groundwork for future breakthroughs in computational aerodynamics and fluid dynamics.

#### **Guest Editors**

Dr. Mohammad Saeedi

Dr. Ali Tarokh

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**Deadline for manuscript submissions** 30 September 2025



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#### Message from the Editor-in-Chief

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#### Editor-in-Chief

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