Special Issue

Computational Fluid Dynamics Applied in System Engineering

Message from the Guest Editor

Computational Fluid Dynamics (CFD) has evolved alongside advancements in computer technology, numerical methods, and modeling techniques. It enables engineers and scientists to simulate and analyze complex fluid flow phenomena, including aerodynamics, heat transfer, and multiphase flows. The development of CFD has led to improved understanding, prediction, and optimization of fluid behavior, providing valuable insights for various industries such as aerospace, automotive, and energy. Today, CFD plays a vital role in the design, analysis, and optimization of engineering systems, offering a powerful tool to investigate and improve fluid flow performance, reduce costs, and enhance safety and efficiency. This special issue welcomes high-quality submissions that contribute to the knowledge and understanding of CFD techniques and their practical applications in system engineering. The collected works will provide valuable insights, promote discussions, and foster further advancements in the field. Ultimately, the aim is to enhance the design, analysis, and optimization of industry using CFD, leading to improved performance, efficiency, and reliability.

Guest Editor

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Editor-in-Chief

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