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Flow Control and Drag Reduction

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Message from the Guest Editor

Drag reduction is an eternal and hot topic in the design of low- and high-speed aircraft, and underwater vehicles in order to achieve the purpose of saving fuel, improving speed and increasing range. The conventional method of reducing drag through shape optimization has met the development bottleneck, whereas the adoption of certain flow control measures to affect the flow around various shapes can improve its drag characteristics and even the stealthy performance of the aircraft. Flow control can be applied to delay/advance transition, inhibit/promote flow separation, enhance/weaken flow stability, shock wave control, etc., so as to achieve drag reduction, which has broad application prospects and research value. This special issue will include the following topics: flow control techniques, flow separation control, lift enhancement and drag reduction, flight control, laminar flow control, transition control, turbulence drag reduction, shock wave control, SWBLI control and other applications to drag reduction.

Prof. Dr. Zhenbing Luo
Guest Editor

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Message from the Editor-in-Chief

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