



Active Flow Control: Recent Advances in Fundamentals and Applications

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Message from the Guest Editors

Dear Colleagues,

Active flow control (AFC) utilizes local active perturbations to induce global flow-field changes that result in net performance improvement. For decades, it has been a vibrant research area with potential applications in a wide variety of problems of academic and industrial interest. Recent developments in actuation technologies and computational/experimental methods, along with the re-booming of machine learning techniques, have made it possible for AFC to be more efficient, robust, and intelligent. Therefore, we propose this Special Issue to showcase and discuss new advances in AFC, both in fundamentals and in applications. The topics of interest include but are not limited to:

- Design and development of novel actuators for AFC;
- Theoretical/computational/experimental studies on AFC;
- New control strategies on AFC;
- Machine-learning-guided AFC;
- New AFC applications.

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