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Active Flow Control Processes with Machine Learning and the Internet of Things

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Deadline for manuscript submissions:
closed (30 June 2020)

Message from the Guest Editors

The topic of this Special Issue concerns the latest developments and investigations in the fields of flow control with a focus on data intensive studies involving machine learning, deep learning, and possibly applied using the Internet of Things.

Potential topics include but are not limited to:

- Accurate and efficient active and passive flow control devices for aeronautical applications;
- Sensor-actuator integrated systems, with a possible focus on MEMS devices;
- Smart structures combined with drag reduction techniques;
- Laminar flow and engine integration technologies;
- Synergy of active or passive flow and noise control technologies;
- Flow control in propulsive systems;
- Experimental characterization and reliable numerical simulation of flow field in the presence of actuators;
- Wireless networks for active flow devices;
- Energy management systems and networks for active flow devices;
- Smart environment monitoring and control;
- Smart management of active flow devices;
- Innovative applications and services for active flow devices;
- Machine learning methods applied to active flow devices;
- Artificial neural networks for active flow control;

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Message from the Editor-in-Chief

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