Special Issue

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

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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