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

Guest Editors:

Prof. Dr. Valentina E. Balas
Department of Automatics and Applied Software, Faculty of Engineering, Aurel Vlaicu University of Arad, Ro-310025 Arad, Romania

Prof. Dr. Dipankar Deb
Department of Electrical Engineering, Institute of Infrastructure, Technology, Research and Management (IITRAM), Ahmedabad 380026, India

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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;

Special Issue

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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