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Autonomous Micro Aerial Vehicles: Methods and Applications II

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Message from the Guest Editor

Micro aerial vehicles (MAVs) are dominating the current focus of resaerch in robotics. Their simplicity in the mechanical structure and the ability to provide a fast deployment and translation in a 3D space, create a novel set of potential radical applications that have never appeared before.

In all the previous cases, autonomy is the enabling factor for these envisioned MAV capabilities , and are still open research directions. Thus, the 2nd volume of the Special Issue will focus at the autonomy directions of MAVs for pushing further the bounds of this technology, including (but are not limited to):

- Autonomous aerial robot applications for key enabling technologies;
- Autonomy Collaborative robots for performing complex tasks;
- Sensor fusion for robust localization;
- Autonomous navigation, mapping, and SLAM;
- Novel autonomous planning and coverage methods;
- Obstacle perception and reactive navigation;
- Vision-based control and visual tracking;
- Reinforcement learning autonomous task execution.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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