Special Issue

Autonomous Micro Aerial Vehicles: Methods and Applications

Message from the Guest Editor

Nowadays, micro aerial vehicles (MAVs) are gaining more and more attention from the scientific community, constituting a fast-paced emerging technology that constantly pushes its limits to accomplish complex tasks. Moreover, endowing MAVs with proper sensor suites, will establish them as a powerful aerial tool for a wide span of applications, in infrastructure inspection, public safety surveillance, search and rescue missions, and in the mining industry.

Integrating aerial robots to operate in close collaboration with human operators provides a strong motivation to develop reliable autonomous systems that can operate safely when deployed. Hence, there is still a need for reliability in several key enabling technologies to achieve safe and robust autonomous aerial systems, such as localization, navigation, and planning. Therefore, this Special Issue focuses on the technological platforms that require novel and combined research and innovative contributions in the fields of mechatronics, control, dexterous manipulation, localization, perception systems, planning, and the multi-agent collaboration of aerial agents, bringing aerial robots closer to real-life challenging applications.

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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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