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Recent Advances in Unmanned Aerial Vehicles

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Message from the Guest Editors

Recent years, we have experienced a significant increase in research on UAVs. Such features as compact size, durability, low price, and high efficiency increase the practical uses of UAVs. To increase the level of autonomy, reliability, and safety of UAVs operating in an environment close to humans, especially in the transport tasks of individual units and groups of UAVs, some open problems and challenges still need to be highlighted and solved.

This Special Issue aims to contribute to the development of UAVs in all areas of applications. Topics of interest include but are not limited to new application for UAVs; UAV control and simulation; machine learning for UAV autonomous control; motion and mission planning; autonomy, reliability, and safety of UAVs; multigoal path planning; multirobot systems; swarm robotics; multirobot data collection; relative UAV localization; guidance and navigation; object tracking; perception and multisensor fusion; vision and sensing; SLAM for UAVs; grasping and manipulation; design of unmanned aerial vehicles; and optimization techniques for UAVs and safety-critical systems.

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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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