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Advances and Applications in Aerial Unmanned Robots: Sensing, Planning, and Control

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Message from the Guest Editors

As sensor and control technology rapidly advance, aerial unmanned robots have been more widely investigated due to their applications in the areas of surveillance, monitoring, infrastructure inspection, delivery, etc. Aerial unmanned robots include fixed-wing drones, multi-rotor drones, aerostat, etc., which can offer tailored solutions for diverse observation tasks. Research into aerial unmanned robots encompasses the territories of sensing, planning, and control. In complex environments, it may require multiple aerial unmanned robots to complete sensing tasks cooperatively, followed by real-time data fusion. Optimal planning results for aerial unmanned robots must also be obtained through optimization theories in order to address requirements such as energy efficiency and obstacle avoidance. Simultaneously, a dependable control strategy is indispensable for the motion of aerial unmanned robots in perturbed environments like complex wind fields.

You are invited to submit to this Special Issue of *Sensors*, entitled “Advances and Applications in Aerial Unmanned Robots: Sensing, Planning, and Control”.



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Special Issue



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Message from the Editor-in-Chief

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