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Design and Applications of Aerial Robotics

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Message from the Guest Editors

Dear Colleagues,

The last two decades have witnessed a drastic maturing and widespread availability of the components and technologies required for aerial robotics. This has led to an unprecedented level of increase in the useful and challenging applications of aerial robotics. The efficient and cost-effective use of aerial robots in the applications demands application-oriented specific designs and control approaches. Moreover, some limitations to the full acceptance and utilization of aerial robotics still exist, including flight endurance and energy autonomy, frameworks for safe operation beyond the line of visual sight in a built-up environment, navigation in an unstructured environment, etc. Mission success of aerial robots largely depends on the soundness and suitability of the overall design and system configurations, the reliability of the components and subsystems, as well as the robustness of their control systems.

This Special Issue will focus on aerial robots' design, model development, optimization (including bioinspired), automatic control, and applications. Both real-time implementation and simulation work will be covered.



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Special Issue



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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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