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Design and Applications of Aerial Robotics

Guest Editors:

Dr. M. Hasan Shaheed
School of Engineering and Materials Science, Queen Mary University of London, London E1 4NS, UK

Prof. Dr. Mohammad Osman Tokhi
School of Engineering, London South Bank University, London SE1 0AA, UK

Dr. Stephen Adira Agha
Department of Engineering and Mathematics, Sheffield Hallam University, Sheffield S1 1WB, UK

Deadline for manuscript submissions:
closed (30 June 2022)

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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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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