Special Issue

Recent Advances in Aerial and Ground Robotic Swarm Networks

Message from the Guest Editors

From disaster recovery to large-scale area monitoring, several emerging use-case of drone technologies can benefit from the deployment of self-organizing aerial networks, where multiple drones move and work as a coordinated swarm. Aerial nodes may communicate with static and mobile ground devices, hence opening the way to autonomous robotic systems whose benefits are limited only by imagination. At the same time, in order to enable the robotic aerial/ground swarms to accomplish complex sensing and actuation tasks, novel research challenges must be addressed, related. The Special Issues aims at investigating the advances on the design, specification, and implementation of architectures, algorithms, applications, and protocols for current and future ground robotic and aerial networks. The Special Issue is inspired by the success of the IEEE WISARN 2022 workshop. The Special Issue will host selected, extended version of papers accepted at the WISARN 2022, as well as contributions from the open call addressing the design, implementation and evaluation of wireless ground robotic and aerial networks.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2022)

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About the Journal

Message from the Editor-in-Chief

Drones is the only international open-access journal about the science, policy and technology of drones and its applications. Nowadays, the proliferation of drones is a reality for local policy makers, regulatory bodies, mapping authorities, startups and consolidated companies. There are many uses and benefits of drones: from the emergence of new sensors and the evolution of new platforms; to the development of specific software and the emergence of new applications. *Drones* publishes reviews, regular research papers, communications and short notes, without restriction on the length of papers. *Drones* seeks to provide a central forum for scholars engaged in drones' research and applications.
There is a need for high quality papers in this area and the *Drones* Editorial Board are widely recognized international leaders. *Drones* journal guarantees a serious peer review and a rapid publication across the whole discipline of drones.

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