Special Issue

UAVs in 5G and beyond Networks

Message from the Guest Editors

The development of the 5th and beyond (6G) generation of mobile networks is having an impact on our society. Its aims are to create extremely flexible network infrastructure capable of integrating geographically distributed computer, storage, and network resources, as well as accommodating highly heterogeneous service demands from different vertical sectors. On the other hand, UAVs are currently gaining traction as enablers of vertical applications. In these applications, UAVs are commonly used to generate, process, and transport relevant information. However, recent advancements on the miniaturization of electronic devices have enabled the creation of onboard lightweight hardware platforms for UAVs, offering computer, storage, and network resources. This opens the opportunity to transform UAVs into programmable mobile nodes of a 5G and beyond network. Moreover, these 5G mobile nodes may operate in isolation or be interconnected to build aerial networks over delimited geographic areas, supporting the deployment and performant operation of 5G vertical services beyond the access/edge network segments of telecommunication operators.

Guest Editors

Dr. Iván Vidal

Telematic Engineering Department, Universidad Carlos III de Madrid (UC3M), 28007 Leganés, Madrid, Spain

Dr. Francisco Valera

Telematic Engineering Department, Universidad Carlos III de Madrid (UC3M), 28911 Leganés, Madrid, Spain

Deadline for manuscript submissions

closed (31 October 2023)

Drones

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.4

mdpi.com/si/106263

Drones
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
drones@mdpi.com

mdpi.com/journal/drones

Drones

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.4

mdpi.com/journal/drones

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.

Editor-in-Chief

Prof. Dr. Diego González-Aguilera
Cartographic and Land Engineering Department, Higher Polytechnic School of Avila, University of Salamanca, Hornos Caleros, 50 05003 Avila, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q1 (Remote Sensing) / CiteScore - Q1 (Aerospace Engineering)