

Special Issue

Advances of Unmanned Aerial Vehicle Communication

Message from the Guest Editors

Unmanned aerial vehicles (UAVs), widely known as drones, can act as autonomous communicating nodes, aerial relays, or even aerial base stations (BSs), and strongly support the conventional networks in propagation scenarios with obstacles and highly mobile and remote network nodes. By flying at modest altitudes, at high elevation angles, and across urban, suburban, and rural terrains, UAVs can facilitate the establishment of an adaptable and reliable multi-hop communication backbone, thus enabling the provision of challenging applications, including disaster and crisis management, agricultural, transportation, environmental monitoring, remote sensing, and healthcare services. Nevertheless, several scientific and technical challenges exist for enabling the successful and long-term operation of UAV-aided communication networks in highly dynamic and heterogeneous environments. Therefore, advanced communication, antenna, networking, sensor, and computing technologies should be proposed, revised, and developed.

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Message from the Editor-in-Chief

Drones is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field of drones.

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