Special Issue

The Application of Image Processing and Signal Processing Techniques in Unmanned Aerial Vehicles

Message from the Guest Editors

Image and signal processing in UAVs is becoming increasingly important. The cameras, LiDARs, inertial sensors, and other advanced sensors mounted on UAVs can transmit data that are more flexible and have a better view than ground platforms. With the development of artificial intelligence and computer vision, the sensor data from UAVs can also be used for object recognition, tracking, 3D reconstruction, SLAM, etc. This Special Issue is dedicated to collect and promote the latest work of image processing and signal processing techniques on drone platforms. The applications include but are not limited to drone photography, object detection and tracking, 3D reconstruction, drone localization, path planning, navigation, and drone autonomy.

Guest Editors

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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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