Special Issue

Research of Intelligent Transportation Systems Using Unmanned Aerial Vehicles

Message from the Guest Editors

Nowadays, intelligent transportation systems (ITS) using unmanned aerial vehicles (UAV) are required. This Special Issue aims to emphasize the role of UAVs for autonomous systems in the ITS research field. Artificial intelligence and machine learning enable modeling, controlling, and predicting the operations of UAVs; for example, connected UAVs, adaptive control of UAV swarm, and UAV path planning. All these emerging technologies can be applied to the ITS applications, including UAV-aided autonomous driving, UAV-based road environment perception, UAV-aided safety protection, etc. In order to perform effective analyses of new concepts and evaluate different design alternatives, while avoiding the risks and costs associated with extensive field experimentation, artificial intelligence and machine learning are crucial in ITS research using UAVs. Setting aside the epistemological significance of artificial intelligence and machine learning, the following question remains open: what is the exact contribution of artificial intelligence and machine learning, relative to UAV development, for intelligent transportation systems?

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Deadline for manuscript submissions

closed (30 April 2023)

Drones

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an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.4

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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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