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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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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