Special Issue

Unmanned Vehicle and Industrial Sensors for Internet of Everything

Message from the Guest Editors

Unmanned vehicles (UVs) such as UAVs (unmanned aerial vehicles) and UGVs (unmanned ground vehicles) are recognized as useful tools to replace or assist humans in various missions, such as inspection and monitoring, surveillance and transportation, etc. The use of UVs in civilian and defense contexts has significant increased in recent times. Nevertheless, some challenges and open issues remain to ensure the full operational use of UVs. We are pleased to invite you to contribute to this Special Issue, the aim of which is to present recent advances in technologies and algorithms to improve the levels of autonomy, reliability, and safety of UVs. Topics of interest include, but are not limited to, the following: advanced guidance, path planning, target detection and control algorithms as well as industrial sensors, predictive maintenance, networked swarms, and traffic management to perform field experiments.

Keywords:

- unmanned vehicles
- machine learning
- computer vision
- predictive maintenance
- industrial sensors
- extended reality
- digital twin
- Internet of Everything

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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