

Special Issue

UAV Imagery for Engineering Applications Using Artificial Intelligence Techniques (UAV-AI)

Message from the Guest Editors

This Special Issue will focus on the development of UAV imagery for engineering applications using Artificial Intelligence techniques (UAV-AI). UAV-AI have the advantage of automatic processing, with short temporal information that can learn from the environment and past experiences and adapt to accommodate fast-changing environments and goals. Each task in a UAV-AI system is interesting and valuable in its own right, but building such a system can facilitate a fundamental shift in the way we see them for solving complex problems. There is a need for a UAV imaging platform which includes visual RGB, multispectral, hyperspectral, thermal IR, LiDAR, etc. and AI technologies in machine learning, specifically shallow artificial neural networks, deep learning neural networks, spiking neural networks, online learning, neurofuzzy networks, as well as gradient-free optimization techniques like genetic algorithms, ant colony optimization, cuckoo search algorithms, etc., in decision-making and modeling in various engineering applications. For more information, please visit: mdpi.com/si/32414

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