



Quadrotor UAV with Advanced Applications

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Message from the Guest Editor

In recent years, new applications of quadrotor unmanned aerial vehicles (UAV) have constituted one of the most interesting fields of research due to its vertical take-off and landing capabilities, the simplicity of their construction, and the important technological advances in control, sensing, communication, and energy storage. The unique capabilities of the UAV, including high maneuverability, small size, and being easy to control, enable more and more applications. The major advantage of such vehicles over traditional helicopters is its fixed rotor propulsion mode. In general, its four rotors are aligned such that two rotors on opposite ends rotate in the same direction and the other two in the opposite direction. It is expected that next generation UAVs will be more autonomous, with better intelligence, exquisite functions and advanced performance in every aspect, all enabled by artificial intelligence (AI), advanced sensing devices, modern guidance and control systems, and design techniques.

From a methodological perspective, we are interested in works that go beyond traditional approaches.





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