Special Issue

UAV of Dual Mode Operation and Hybrid Power

Message from the Guest Editor

Unmanned aerial vehicles (UAVs) have been developed with various functions for many applications. However, due to the battery capacity and weight constraints, multi-rotors can have a very limited range in terms of mission distance and service time. Due to modern UAV/UAS requirements, hybrid power and dual mode VTOL and HTOL UAV/UAS aircraft are in high demand. A combination of multi-rotors with fixed wings is attractive because it enhances the payload and endurance, and increases maneuverability. Power supply on airborne UAVs can vary from batteries to additional systems such as gasoline generators, fuel cells, and solar panels. Designing hybrid power into UAVs will be valuable to future UAS developments. Beyond hybrid power, dual modes with VTOL and HTOL is another important subject to elevate UAS into wider applications. With advanced design for modern UAVs, these applications shall be interesting to both governments and industries. Industry–academic papers under the UAS Integrated Pilot Program (IPP) are welcome for submission, to share novel ideas, concepts, realizations, experiments, and applications.

Guest Editor

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