Special Issue

Recent Advances in See and Avoid Systems for Aircraft

Message from the Guest Editor

The key improvement areas that the most recent advances in SAA technology should be focused on are related (but not limited) to:

- Technologies for accurately sensing traffic and fixed obstacles that can be integrated in all vehicle's classes (from a few kilograms to several tons);
- Efficient filters for processing and fusing sensor data to reliably see and detect obstacles (either flying or not-flying);
- Intelligent traffic conflict detection, situational awareness, and guidance algorithms to allow missions near ground, in urban areas, or in the presence of other path constraints (fixed obstacles, severe weather, no-fly zones, geo-fencing) that would enable more autonomous unmanned operations;
- Better adaptation of SAA to (variable) vehicle maneuvering capabilities and to the probabilistic nature of traffic evolution, to always have an optimized behavior in any situation.

Guest Editor

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