



Recent Advances in See and Avoid Systems for Aircraft

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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.





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