



## Recent Advances in UAV Navigation

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### **Message from the Guest Editor**

Dear Colleagues,

In recent years, the number of potential applications for Unmanned Aerial Vehicles (UAVs) has significantly increased. Current applications include environmental monitoring, surveillance, mapping, agriculture, aerial photography, infrastructure monitoring, search and rescue, and law enforcement.

For many commercial UAVs, Global Navigation Satellite Systems (GNSS) such as the Global Positioning System (GPS) have become one of the most dependable solutions for position and navigation.

Alternative navigation technologies may include the integration of inertial sensors with imagery and laser scanners, beacon-based navigation, navigation using signals of opportunity or novel integration approaches.

UAVs may also collaborate with other UAVs operating in their vicinity to obtain a better navigation solution by exploiting the exchange of navigation-related information.

*Prof. Dr. Maarten Uijt de Haag*

*Guest Editor*





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