



Recent Advances in UAVs' GN&C (Guidance, Navigation, and Control) Technologies

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Deadline for manuscript submissions:

closed (10 January 2026)

Message from the Guest Editors

Dear Colleagues,

Emerging applications in various types of UAVs, such as rotor aircrafts, tilt-rotor aircrafts, blended-wing-body planes, and hypersonic vehicles, require innovative advanced GN&C technologies with great robustness and good performance under uncertainty and disturbances. We are pleased to announce this Special Issue on UAVs' GN&C (guidance, navigation, and control) and invite manuscripts that highlight recent advances in this field. The scope of this Special Issue will include:

- Innovative designs for UAVs' GN&C;
- Novel navigation and detection concepts and architectures;
- Improvements in data processing and sensor fusion techniques that enhance GN&C performance;
- Research illustrating advances in integrated guidance and control for UAVs;
- Methods and techniques of Artificial Intelligence for UAVs' GN&C;
- New methods of navigation, estimation, and tracking;
- GN&C of multiple UAVs or UAV swarms.

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Message from the Editor-in-Chief

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