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Recent Advances on UAVs' GN&C (Guidance, Navigation, and Control) Technology

Guest Editor:

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Deadline for manuscript submissions:
closed (15 January 2023)

Message from the Guest Editor

Dear Colleagues,

This Special Issue on UAVs GN&C aims to provide an opportunity to exchange state-of-the-art approaches toward a higher level of autonomy as well as intelligence. We invite papers on new innovative ideas on UAV GN&C systems. Not only conventional GN&C but also recent emerging technologies supported by new hardware and software technologies are invited. Artificial Intelligence and machine learning technologies could be principal drivers for future UAVs. Papers on recent hot issues dealing with VTOL platforms for UAM (urban aerial mobility) are also encouraged. The potential topics include but are not limited to:

- UAV guidance laws
- Adaptive guidance and control
- Vison-based navigation
- Terrain referenced navigation
- Fault tolerant control
- Redundant GN&C systems with fault management
- Machine learning applications
- Navigation for indoor missions
- Artificial Intelligence for UAVs
- Autonomy in GN&C
- VTOL UAVs GN&C for UAV applications in particular

Prof. Dr. Hyochoong Bang
Guest Editor

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Message from the Editor-in-Chief

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