

Special Issue

Unmanned Aerial Vehicles en-Route Modelling and Control

Message from the Guest Editors

The market for unmanned aerial vehicles (UAVs), including urban air mobility (UAM), is expected to grow rapidly, garnering considerable research and significant investment worldwide. Enroute operation (e.g., in cruise or corridor) is critical to the safety, efficiency, robustness, and sustainability of UAV and UAM missions. This Special Issue intends to highlight recent technical advances to improve UAV enroute operations. Possible topics include, but are not limited to:

- UAV trajectory modeling, prediction, and optimization;
- Mission planning and management for UAV operations;
- Low altitude airspace design and management;
- Separation assurance and other safety issues related to UAV operations;
- Strategic route network design for UAV operations;
- Noise and environmental issues of UAV operations;
- Enroute traffic flow management for UAV;
- Communication, Navigation, Surveillance infrastructure for UAV operations;
- Simulation and performance evaluation for UAV operations;
- Other topics related to UAV enroute modeling and control.

Guest Editors

Prof. Dr. Keumjin Lee

Air Transport and Logistics, Korea Aerospace University, Gyeonggi-do 10540, Korea

Prof. Dr. Sang Hyun Kim

School of Air Transport, Transportation, and Logistics, Korea Aerospace University, Gyeonggi-do 10540, Korea

Deadline for manuscript submissions

closed (31 October 2022)



Aerospace

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CiteScore 3.4



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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
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Editor-in-Chief

Prof. Dr. Konstantinos Kontis

School of Engineering, University of Glasgow, James Watt Building
South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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