

## Special Issue

# Air Vehicle Operations: Opportunities, Challenges and Future Trends

### Message from the Guest Editor

This Special Issue covers topics such as advanced communication systems, including 6G and non-terrestrial networks for seamless handover, traffic steering, and reliable links; innovative navigation and robust control methods for autonomous operations; safety and reliability strategies addressing technological and regulatory challenges; sustainable flying vehicle systems with energy-efficient designs, renewable integration, and battery technologies; AI and machine learning advances enabling high autonomy for unmanned aircraft; integration of eVTOL vehicles into urban air mobility ecosystems with efficient traffic management; and operational models, pilot projects, and case studies showcasing the real-world deployment and benefits of advanced air mobility solutions.

### Guest Editor

Prof. Dr. Saba Al-Rubaye

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### Deadline for manuscript submissions

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## Vehicles

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