



## Urban Air Mobility/Advanced Air Mobility Using eVTOL Aircraft

Guest Editor:

### Prof. Ho Yun Hwang

Department of Aerospace  
Engineering, and Convergence  
Engineering for Intelligent Drone,  
Sejong University, Seoul 05006,  
Korea

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### Message from the Guest Editor

Recent developments in electric propulsion and battery technology enable new areas of operation for air vehicles. Quieter operations and shorter mission ranges facilitate air vehicles' urban application. Increasing urbanization and population growth induce a rising transportation demand, and thus, especially during peak-hours, a high willingness-to-pay for further time-efficient mobility alternatives is to be assumed. The recent concept of urban air mobility (UAM), i.e., the utilization of next-generation vertical take-off and landing (VTOL) vehicles or personal air vehicles (PAVs) in urban environments could add additional transport supply into urban settings.

Research topics in this Special Issue include:

- eVTOL aircraft design;
- Urban data, demand modeling of UAM/AAM;
- Operating concept and vehicle selection;
- Vertiport modeling and integration;
- Route network and flight scheduling of UAM/AAM;
- Noise Analysis of UAM/AAM;
- Airspace concept and conflict detection of UAM/AAM;
- Cost modeling and energy demand of UAM/AAM.





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## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

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*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
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