



## TMA and Apron Operations

Guest Editors:

**Prof. Dr. Michael Schultz**

Institute of Flight Systems,  
Bundeswehr University Munich,  
85577 Neubiberg, Germany

**Dr. Sameer Alam**

School of Mechanical and  
Aerospace Engineering, Nanyang  
Technological University,  
Singapore 639798, Singapore

**Dr. Cheng-Lung (Richard) Wu**

School of Aviation, UNSW  
Australia, Kensington, NSW 2052,  
Australia

Deadline for manuscript  
submissions:

**closed (31 August 2022)**

### Message from the Guest Editors

The airspace environment around the airport consists of a complex design for arrival and departure traffic flows. Climbing and descending traffic have to be efficiently managed while complying with safety regulations and sequencing demands. Limited capacities and resources at air and ground determine the system design, which benefits from integrated synchronization and optimization of decent/landing, apron (taxi and gate), and departure/climbing operations. Improved awareness of stakeholders (air traffic control, airliners, airport, and ground handlers) will allow for an appropriate response to the variable traffic demand over the day of operations.

This Special Issue invites innovative and disruptive contributions that address models, methods, optimization approaches, as well as improved operational procedures or design challenges to be solved for both the terminal maneuvering area (TMA) and the airport apron, e.g., the following topics:





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Konstantinos Kontis**

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

## Message from the Editor-in-Chief

You are welcome to contribute a research article or a comprehensive review for consideration and publication in *Aerospace* (ISSN 2226-4310), an on-line, open access journal.

*Aerospace* adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Inspec](#), [Ei Compendex](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Engineering, Aerospace) / CiteScore - Q2 (Aerospace Engineering)

## Contact Us

---

*Aerospace* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/aerospace](http://mdpi.com/journal/aerospace)  
[aerospace@mdpi.com](mailto:aerospace@mdpi.com)  
[X@Aerospace\\_MDPI](#)