

## Special Issue

# Flight Simulation and Aircraft Autonomy

### Message from the Guest Editor

This Special Issue aims to collect publications on innovative research on the following topics, with a special focus on the autonomy technologies of aircraft.

- Software-in-the-loop simulation
- Hardware-in-the-loop simulation
- Improving accuracy of FS
  - Construction and validation of simulation database (look-up-tables)
  - Calibration of simulation models using experimental data
  - Artificial intelligence and machine learning for FS
- Simulation methods for novel types of aircraft and systems
  - eVTOL
  - Hydrogen powered aircraft
  - Distributed electric propulsion
  - Others
- Simulation validation methods
- Advanced flight control algorithms
- Aircraft autonomy
  - Path and mission planning
  - UAV swarm
  - Situational awareness and decision making
  - Obstacle detection and avoidance
  - Artificial intelligence and machine learning
- Applications of FS
  - Digital twin systems
  - Virtual certification
  - Pilot training
  - Traffic management

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### Guest Editor

Prof. Dr. Maxim Tyan

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### Deadline for manuscript submissions

closed (20 January 2023)



## Aerospace

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## About the Journal

### 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.

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### Editor-in-Chief

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