Special Issue

Machine Learning Applications in Aviation Safety

Message from the Guest Editors

This Special Issue focuses on topics related to the application of machine learning, deep learning, and other emerging data-driven techniques in the context of enhancing safety in aviation and the air transportation system. The applications could be intended for in-flight or retrospective analysis and conducted at individual aircraft level, fleet level, or system level. Authors are invited to submit full research articles or review manuscripts addressing (but not limited to) the following topics:

- Data processing frameworks for handling big data in aviation domain
- Data fusion framework for leveraging multiple sources of information
- Predictive models for risk likelihood using aviation data
- Precursor identification for safety incidents, events, accidents using text/data mining
- Anomaly detection in air traffic or operations using flight data
- Challenges and opportunities in the application of machine learning in aviation safety data

Moreover, the focal topics listed above are not meant to exclude articles from additional related areas. We are looking forward to receiving your submissions and kindly invite you to address the in case of further questions.

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Deadline for manuscript submissions

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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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