Analysis, Optimization, and Control of Air Traffic System

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Message from the Guest Editors

Dear Colleagues,

Safety and efficiency are the two main goals of the modern civil aviation industry. To this end, the analysis, optimization, and control of air traffic systems are of critical importance to improve both the safety and efficiency of civil aviation. Large numbers of flighting data are generated every day, in every aircraft and every airport, etc. Recent advances in data science and simulation modeling can potentially provide useful tools for future air traffic systems. By overcoming the shortcomings of traditional methodologies, big data mining will possibly handle the complexity and uncertainty of air traffic systems.

This Special Issue deals with data mining and modeling in the analysis, optimization, and control of air traffic systems. Development and demonstration of cutting-edge data mining methods are particularly welcomed, especially for the purpose of (but not limited to) trajectory, air traffic flow, accident sources, etc.

Special Issue

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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