Special Issue

Application of Data Science to Aviation II

Message from the Guest Editors

Future aviation requires air traffic providers, operators, and researchers to implement new procedures and technologies for an efficient and environment-friendly air transportation network. Data analytics and machine learning (ML) techniques are well suited for aviation to extract information from the large amount of generated data, to predict future situations based on historical information, and to assist humans in taking optimal decisions. The rationale is to try to learn how to imitate the behavior of operators rather than having them explain and model an incomplete set of rules they are assumed to follow. The air transportation system is complex, multidimensional, highly distributed, and interdependent. It interacts with global and regional economies and has reached its limits in many ways. The operational uncertainties related to weather conditions, increasing safety requirements and environmental expectations (green aviation) are challenging the robustness and efficiency of the system and open new research questions.

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