Special Issue

TMA and Apron Operations

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:

Guest Editors

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Dr. Cheng-Lung (Richard) Wu

Deadline for manuscript submissions

closed (31 August 2022)

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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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