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Aircraft Operations and CNS/ATM

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editor

Cruise flight typically represents the longest flight phase, where most of the on-board fuel is burnt, most of the pollutant gases are emitted in the atmosphere, and where contrail-induced cloudiness might occur.

This Special Issue addresses a broad list of topics related to how cruise flight can be improved from a flight trajectory and air traffic management point of view. Papers related, but not limited to, the following topics are welcome:

- (Robust) cruise trajectory planning, optimization, prediction, synchronization, negotiation, guidance, and execution;
- Technological CNS enablers for improved cruise operations;
- En-route airspace management and air traffic control;
- En-route traffic flow management, trajectory options, and re-routing strategies;
- En-route separation and strategies to increase en-route capacity;
- Modelling and computation of gaseous emissions and climate impact due to cruise operations;
- Weather forecasting and weather-related products for cruise operations; and
- Modelling and computation of flight efficiency and airspace capacity performance indicators for cruise/en-route operations.

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Special Issue

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Message from the Editor-in-Chief

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