Special Issue

Future Airspace and Air Traffic Management Design

Message from the Guest Editors

The current air traffic system is reaching its limits. The traditional principle of dividing the airspace into sectors, assigning one air traffic control unit and organizing traffic via one radio communication line is not capable of handling the peak traffic numbers. Moreover, additional services as fuel optimized manoeuvres, traffic flows with reduced climate footprint and the integration of new vehicles struggle with the current airspace organisation and the air traffic controller availability. As such, novel techniques like sector-less control, digital assistants and datalink need to be further researched and combined into operational concepts for future air traffic management.

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