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JARVIS

Just A Rather Very Intelligent System



JARVIS

The Project

Digitalisation is revolutionising the overall aviation ecosystem introducing automation and Artificial Intelligence.

JARVIS takes up the challenge by implementing and validating three new Digital Assistants aimed to team with their human counterparts and ensure safer and more efficient operations in complex scenarios.

Airborne Digital Assistant

Increasing the levels of automation and the use of AI-based machine intelligence in the flight deck will accelerate the adoption of new operations in ATM both for conventional mobility and emerging advanced air mobility. Airborne Digital Assistant directly enables reduced crew and single pilot operations while maintaining or improving current safety levels.

Led by:  **Collins Aerospace**
An RTX Business

Air Traffic Control Digital Assistant

Air Traffic Controllers nowadays face a more demanding operational contexts, such as growing traffic complexity, more interconnections and new airspace users. The ATC Digital Assistant will provide controllers with data-driven decision support in tasks such as Conflict Resolution, Flight Planning, 'Direct to' recommendations. The application of different AI techniques will learn and leverage Air Traffic Controllers expertise contained in historical data. ATC-DA aims at improved human-AI teaming to improve performance, operational efficiency, environment and maintain safety levels.

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Airport Digital Assistant

Adopting AI-based solutions directly impacts aviation safety and operational efficiency at airports. Computer vision supports airport operators in detecting intrusions and in avoiding risks of collisions, while also contributes to the calculation of aircraft turnaround processes and passenger flows. AI-enabled Digital Assistant will provide an alert system, helping to take appropriate mitigation actions and achieve a more predictable airport operations plan.

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