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Challenges and Solutions for the Use of AI Algorithms in Aviation

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Frederik Mattwich, BSc, MSc, Product Manager, Helsing

Date: Thursday, 6 November 2025, 18:00

Location: Helmut-Schmidt-Universität (in-person only!)

Universität der Bundeswehr Hamburg, Holstenhofweg 85, 22043 Hamburg

Aviation is undergoing a technological transformation in both the civil and military sectors, comparable to the introduction of fly-by-wire or autopilot. Advances in data processing, machine learning, and robotics enable numerous new applications and significant operational benefits. Modern software and associated infrastructure play a crucial role.

Applications created using data-processing and learning methods can analyze increasingly large amounts of data, relieving human operators of previously manual tasks and decision-making. Technological applications are also being developed that are crucial for the development of ground-breaking AI capabilities for autonomous air combat systems.



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This presentation will highlight selected challenges and solutions for the use of AI algorithms in aviation, focusing on technological aspects as well as industrial and regulatory success factors.

Peter Czornik is a senior program manager at Helsing and is responsible for the contribution of Helsing to the KI Upgrade in the Eurofighter EK program. Previously he served as a Technical Officer in the Bundeswehr for 14 years. **Frederik Mattwich** is a product manager for cognitive electronic battle at Helsing (Product Cirra).

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