



Aircraft Signal Antispoofing

As an extension or even a future replacement of radar, aircraft nowadays emit position messages. This has several benefits, including higher received signal strength on the ground, increasing for instance the data quality for flight control. However, as the messages are not cryptographically signed, anybody can fake such messages. This is a threat for air traffic safety.



In this project, we want to explore possibilities for detecting and eliminating spoofed aircraft messages. This task can be solved with data from ground stations which collect such messages from hundreds of kilometers away.

Requirements: Knowledge of signal processing, creativity and programming skills are advantageous. The student(s) should be able to work independently on this topic!

Interested? Please contact us for more details!

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