



Security challenges for collaborative autonomous aircraft systems

Cora-Lisa Perner

Airbus

Date: Nov 12th, 2021

Time: 14:00-15:00

Teams Link: [Join Seminar](#) (We'd appreciate if you could optionally [register](#) to join our mailing list)

Abstract:

Increasing autonomy is an emerging topic for both civil and military aircraft systems. However, the increased connectivity of previously isolated services in combination with legacy leaves such systems vulnerable to cyber attacks.

This talk will cover challenges related to securing autonomous aircraft systems operating in the same airspace as crewed aircraft. The focus will be on establishing trust with potential collaborators as well as on investigating the impact of a propagating attack on the success of a collaborative mission.

Biography:

Cora Perner is a Cybersecurity Aeronautics Architect with Airbus Cybersecurity and leads several research projects. She has completed a PhD in Computer Science from the Technical University of Munich (DE) and a degree in Aerospace Vehicle Design from Cranfield University (UK). Her research focusses on the intersection between safety and security of unoccupied and autonomous aerial vehicles as well as the safe integration of new technologies and methods. She has been working on several national and European projects in the past years. In addition, she has published seven papers at distinguished international conferences.

Please [contact](#) Jennifer for any Teams connectivity issues: j.mcculloch@lancaster.ac.uk