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on the OSI airborne techniques simulator

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The development of an airborne physical simulator to support the development and testing of airborne OSI equipment configurations as well as facilitating ground-based training for airborne operations was reported at SnT2019. This paper provides an update to the project, summarises the difficulties of transforming a dilapidated airframe into a multi-purpose structure and describes its commissioning. The interior of an Mi-2 helicopter has been completely transformed and now provides a realistic and flexible configuration enabling simulations of different airframe types. All original cabling and unnecessary elements have been removed while the cockpit, windows and interior lining have been enhanced but still retain the feel of a military helicopter. The exterior of the airframe has been repaired and repainted with hardpoints added to mimic a range of different airframes. These hardpoints allow training on the installation of external equipment such as laser range finders and radar altimeters. Real life scale 3D printed versions of airborne equipment are now available for use in the simulator allowing testing and training on realistic alternatives to the real items.

Promotional text

Airborne operations are a technically demanding aspect of an OSI, this paper reports on a tool to expedite testing and development of airborne equipment and facilitate training on airborne equipment and procedures in a realistic simulator.

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