Information Needs and External Communication of Autonomous Helicopters

Open Bachelor/Master Thesis

Background

Highly automated helicopters are about to be introduced at least for some use cases. Such helicopters will then become players in socio-technical systems involving highly trained and novice users. However, most research has gone into technical solutions without special regard to the users. Users will be able to engage in a variety of non-driving related activities, but this technology has to be accepted before it can be widely deployed.

Research Goal

The aim of this thesis is to conceptualize and test information needs and/or external communication necessity in autonomous helicopters. A related work research should be conducted and interdisciplinary and information science approaches should be considered.

A prototype should be designed and implemented that investigates several of these aspects. Finally, the defined hypothesis should be evaluated by conducting a study.

Based on bachelor/master level the scope is adapted.