

EPSRC CDT in Distributed Algorithms

PhD Project: Using Machine learning to train a digital test pilot for missions in turbulent environments

University of Liverpool

PhD Student: Carole Liao

Project Partner: Nova Systems

Supervisors:

Dr Mark White (University of Liverpool)

Dr Jony Castagna (STFC Hartree)

Dr Syvain Manso (Nova Systems)

Project Description

This project focuses on modelling and simulation activities for helicopter to ship operations. The objective is to develop a mathematical model of a human test pilot operating a helicopter to a ship. This digital test pilot will be trained using data gathered during real-world sea trials. It could then be used to conduct multiple virtual deck landings in order to establish the likely boundaries of a helicopter safe operational envelope. The exploitation of real-world test data investigated has the potential to enable exploration of a wider operational envelope and reduce cost and risks involved in real-world flight trials.

Go to the [EPSRC CDT In Distributed Algorithms](#) website.