

# EPSRC CDT in Distributed Algorithms

## PhD Project: Parallel Processing for Novel Navigation

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### **Project Description**

This project focuses on exploring the power of GPUs and multi-threading CPUs to enhance particle filters for use in inertial navigation systems. GPS jamming technology is becoming more sophisticated and therefore there is a growing need for novel navigation solutions. Inertial navigation systems are currently too sensitive to acceleration measurement errors, which can allow drift in the position measurement, rendering the position inaccurate over long durations of time. The use of a particle filter offers a promising solution to mitigate these challenges and enhance the robustness of inertial navigation systems.

For more information please go to the [EPSRC CDT In Distributed Algorithms](#) website.