EPSRC CDT in Distributed Algorithms

PhD Project: Machine Learning for Bio-Inspired Navigation

University of Liverpool

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Project Description

This project is focused on leveraging machine learning towards enabling navigation in GPS-denied environments, by developing novel navigation systems. Biologically inspired, the novel navigation system will mimic the migratory mechanisms of animals over long distances, by fusing a multitude of animal sensors.

The objective of the PhD will be to identify bio-inspired sensors that could be used in Positioning Navigation and Timing (PNT) applications and to develop a processing architecture that would allow such sensors to form part of a fused PNT solution.

The project will cover a range of different forms of sensing technologies, sensor fusion, navigation and timing systems, and it will provide opportunities to gain experience with real-time processing with sensor hardware.

For more information please go to the EPSRC CDT In Distributed Algorithms website.