

Macquarie University
Information and Communication Sciences
Divisional Colloquium

**Unmanned Aerial Vehicles:
A Future Technology**

Patrick Doherty
Professor in Computer Science
Linköping University, Sweden

Wednesday **2-3 pm** Dec 12th, **E6A 102**
Followed by Tea & Discussion

This is the second lecture in the Division-wide Colloquia series hosted by the Dean of ICS. This is an open event. All within and outside the Division are welcome. This series aims to communicate with the broader community, and strengthen research collaborations both internally and externally to the ICS Division.



Abstract

Due to technological advances and increasing investment, interest in Unmanned Aerial Vehicles (UAVs) as a practical, deployable technological component in many civil applications is rapidly increasing and becoming a reality, as are their capabilities and availability. UAV platforms also offer a unique experimental environment for developing, integrating and experimenting with many artificial intelligence technologies such as automated planners, knowledge representation systems and chronicle recognition systems. In this talk I will describe some of the work being pursued at Linköping University, Sweden in this area. Focus will be placed on integration of artificial intelligence technologies in such systems in the context of civil and commercial applications. A number of UAV systems developed and deployed by our research group for sophisticated experimental application scenarios will be demonstrated. Challenges and prospects for future UAV systems will also be highlighted.

BioPic

Patrick Doherty is a Professor of Computer Science at the Department of Computer and Information Sciences (IDA), Linköping University, Sweden. He heads the Artificial Intelligence and Integrated Computer Systems Division at IDA, and is also director of LinkLab, a research center for future aviation systems at Linköping in partnership with Saab. He is an ECCAI fellow and has published numerous articles in the areas of knowledge representation, automated planning, and autonomous UAV systems.



<http://www.ida.liu.se/~patdo/patdosite1/index.html>

