

## Fusing LIDAR with Aerial Images in Identification of Tree Species

Computer vision technology has been found to be an important application in remotely sensed data understanding. This studentship exploits airborne LIDAR (Light Detection And Ranging) and its co-registered aerial images to identify tree species. Different from existing approaches, the proposed research focuses on tree leaf shape recovery from very low resolution images in association with tree profile provided by LIDAR in tree species identification. Potential applications of the research cover forest-monitoring for eco-system analysis, forest growth modelling and fire risk assessment. The results of the research can also be used for city planning and forest management. Detecting drug plants from remotely sensed data may also fall in the application area. For informal inquiries, please contact Dr. Hong Wei (h.wei@reading.ac.uk).

### Funding Notes

The School of Systems Engineering at the University of Reading is offering a fully-funded studentship. The candidates must satisfy EPSRC requirements, being either a UK citizen or EU citizen with 3 years UK residency. The studentship comprises the fee at the UK/EU rate and a stipend (£13,290 in 2009/2010).

Applicants would normally be expected to achieve or have achieved first class/upper second honours degree or Master degree in Computer Science, Cybernetics, Electronic Engineering, Information Technology or related area. Applicants with an interest in and experience of the project area will be given priority.

Applicants should send a completed application form (from <http://www.reading.ac.uk/Study/study-pg.aspx>) and a covering letter explaining why they have selected the project they are applying for.

Applications should be emailed to [ssepg@reading.ac.uk](mailto:ssepg@reading.ac.uk) by 27 August 2010, with the subject line: PhD Studentships 2010/13.

Interviews will be held on 7 September 2010.