



PhD Studentship in the Area of:

Content Service Networks

Computing Department, Lancaster University

Applications are invited for a PhD studentship at the Computing Department, Lancaster University (<http://www.comp.lancs.ac.uk/>) starting October 2006. The studentship is funded through the European Network of Excellence CONTENT in which 10 European universities collaborate in the area of content networks and services for home users.

The proposed research looks at service based Content Distribution Networks. The goal of the work is to understand how to provide appropriate abstractions for content services and how they can form a content network on top of overlay networks. Further, the question of how to deal with specific aspects associated with services (such as service discovery, service description, service level agreements) is also part of the research associated with this technical activity. Exemplary services are integrated into the overall infrastructure to fully demonstrate the concept of content service networks.

To achieve this goal the research will investigate the following issues:

- *Content Service Network Architectures and Services Frameworks* comprises research on the underlying architectural model for content service networks and also specifies a service framework to incorporate easily all the services making up a content network.
- *Service Interaction* encompasses all issues related to service integration and usage in general such as service discovery, service description, service quality, service level agreement, etc.
- *Service Instances*: includes specific content services that improve the delivery and user experience in content service networks. (This part of the research is carried out in conjunction with another PhD project).

Candidates should hold a BSC (Hons) at 2.1 or better in communications, computer science or a related area. An MSc in a related area is desirable but not essential. Applications from non-UK students are invited if their qualifications fulfil the above criteria.

Enquiries to:

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To apply please fill in a PhD application form available from:

(<http://www.lancs.ac.uk/users/admissions/postgrad/pgform1.htm>)

And indicate on the form that you wish to be considered for the CONTENT Studentship with Dr. Andreas Mauthe. Please complete the application with a written statement giving your the reason applying.