

Short Scientific Report About STSM of George Vouros to DERI

This Short Term Scientific Mission lasted from 17 to 26 of June, 2009. I was hosted in DERI, Galway by Dr. Axel Polleres, mostly in the interest of the “Semantic Technologies” group.

This mission had two objectives:

1. To investigate the potential for future collaborations between the AI-LAB in the University of the Aegean, Greece and DERI, Ireland
2. To give a lecture to researchers in DERI concerning agreement technologies in the scope of aligning ontologies

Concerning the first objective, we discussed two issues: (a) the potential for collaboration towards the “object consolidation” problem, i.e. the problem of matching entities in the web by exploiting their descriptions, properties, data attached to them, and (b) the potential to use and further extent portal technologies to incorporate semantic web technologies in a seamless way. Both issues are of particular interest to the Agreement Technologies Cost Action.

For the first issue we have formed a team of 6 persons (3 from DERI and 3 from the University of the Aegean) headed by A.Polleres and G.Vouros to work on the problem. The goal is to investigate thoroughly the problem and develop new techniques (taking advantage of the expertise of both parties), scheduling also a future joint publication.

For the second issue, the starting point is the module developed in DERI towards extending the well-known DRUPAL tool to incorporate semantic web technologies. We (in the AI-LAB of the University of the Aegean) aim to use and experiment extensively with this DRUPAL enhancement (in close collaboration with DERI), proposing new ways to extend this as to serve communities of users to share content and work collaboratively.

During my stay, I gave a 1-hour lecture on Synthesizing Ontology Alignment Methods by the Max-Sum Algorithm: In this lecture I described an approach we have developed in the AI-LAB towards the synthesis of alignment methods so as to achieve near-to-optimal synthesis results with respect to the preferences of individual methods and the semantics of ontological specifications (the announcement of this lecture is in <http://www.deri.ie/teaching/invited-talks/archive/>).

Sincerely,

Prof. George A. Vouros

