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Populating semantic oriented CMS using OAI

Semantic interoperability among heterogeneous and autonomous systems is expected to strongly rely on an effective of the ontologies. Where an ontology is an enriched representation of metadata schema so that they could simplify the interpretation process of not aligned vocabulary and conceptual representations. However, and effective deployment of this ontological approach demand for an efficient processing both on exchanging the metadata schema and the corresponding document instances and to activate the correct cooperation to interpret the heterogeneous schema.

Clearly the use of standard metadata exchange protocol may simplify the whole process. In this poster the usage of the OAI protocol to exploit the cooperation among heterogeneous Content Management Systems to disseminate cultural heritage knowledge (www.campaniabeniculturali.it) is illustrated. The cooperation cloud cover the region of Campania in Italy, and the cooperation circuit adheres to the European project Michael (http://www.michael-culture.eu).

The main service offered by this infrastructure is the dynamic scouting of cultural heritage knowledge driven by domain ontologies, where each document repository system may manage its specific domain ontologies. Furthermore, the knowledge repository populating process significantly use the OAI protocol to automatize the knowledge harvesting and uploading. The current experimental set-up is also shortly illustrated.

Primary author: Dr ESPOSITO, Alessio (Consiglio Nazionale delle Ricerche - CNR (Naples, Italy))

Co-author: Dr NOVIELLO, Carmine Ivan Delio (Consiglio Nazionale delle Ricerche - CNR (Naples, Italy))

Presenter: Dr ESPOSITO, Alessio (Consiglio Nazionale delle Ricerche - CNR (Naples, Italy))