Semantics-based Indexing and Retrieval of Cultural Heritage Content

Abstract:

In this project, we propose an integrated semantic-based system for indexing and retrieval of cultural heritage content, namely images. The proposed system will exploit knowledge represented in a cultural heritage ontology for two main purposes: a) indexing cultural heritage images based on the meaning of their surrounding textual information; and b) retrieving the cultural heritage images based on analyzing the user’s query, and then matching between the meaning of analyzed query and the meaning of the indexes of the cultural heritage images. Accordingly, and as a first step, we will build the seed ontology and expand it by enriching it with other existing semantic resources that target cultural heritage. Then, the developed ontology will be used for indexing and retrieving the cultural heritage images. In order to validate our proposal, we will use dataset.