



Cultural Units of Learning - Tools and Services

Multimedia knowledge management
tools for culture and arts

Objectives

The aim of CULTOS is to develop new knowledge-aware multimedia authoring and presentation tools for non-technical experts, for cross-media integration of cultural multimedia artefacts.

This includes:

- Development of end-user tools, system tools and integration tools that support autonomous, portable meta-data objects
- Specification and implementation of the properties of autonomous portable meta-data objects (Enhanced Multimedia Meta Objects - EMMOs)
- Delivery and deployment of these objects in different publishing scenarios
- Definition of an ontology for the domain of cultural studies and literary science, which will be proposed as a standard methodology for intertextual work
- Specifications and implementation of support tools for publishing workflows
- Building showcases of cultural knowledge about European culture.

Technical Description

CULTOS includes the following main activities:

Development of web authoring tools: In three iterations, existing authoring tools will be adapted and further developed to fit the needs of non-technical cultural knowledge workers. Each cycle includes capturing user requirements, design and implementation authoring tools, test and validation of the tools.

Design of document models: This cluster of activities aims at both tracking the development of technical standards and technologies, and at clearly defining the specifications of enhanced multimedia meta objects (EMMOs) as "the unit of value" of the publishing value chain.

Design and implementation of intertextual knowledge: World experts in the field of comparative literature and intertextuality together with knowledge engineers will create an ontology of literary concepts as basis for the design and implementation of "Intertextual Cultural Threads" - the main content output of the project. These threads are meta objects that contain references to knowledge and multimedia content.

Tool Integration

Three types of integration are needed:

- Authoring tools with analysis tools for the support of knowledge workers;
- Runtime delivery of MM assets to customers;
- Rights management for CULTOS content in the publishing workflow.

Exploitation of results according to roles and interests: publication of cultural content on various hypermedia platforms; commercial exploitation of tools in different application domains; exploitation of the technology for education and distance learning, including the development of advanced digital libraries holding semantically rich and media-rich knowledge threads.

Milestones

- Initial ontology/knowledge model of intertextuality;
- Technology Implementation Plan;
- Design of document model and EMMOs;
- Demonstrator - intertextual cultural threads - standard ontology;
- Proposal for a standard ontology of intertextuality;
- Final implementation of authoring tools;
- CULTOS workshop or conference;
- Final Report.

Project Details

Contact Person:

Wernher Behrendt

Tel: +43-662-2288-462

Fax: +43-662-2288-222

wernher.behrendt@salzburgresearch.at

<http://www.cultos.org>

Organisation:

Salzburg Research Forschungsgesellschaft m.b.H.

Jakob-Haringer-Strasse 5/III

A-5020 Salzburg

AUSTRIA

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