Motivation

With the rapidly growing volume of resources on the Web, the dominating “collect-all” approach of Web archiving for preservation is an unsatisfying solution wrt. resources and the usefulness of the archives. The vision of the ARCOMEM project is to leverage the Wisdom of the Crowds for content appraisal, selection and preservation, in order to create and preserve archives that reflect collective memory and social content perception, and are, thus, closer to current and future users.

Goal and Approach

The goal of the ARCOMEM project is to develop methods and tools for transforming digital archives into community memories based on novel socially-aware and socially-driven preservation models. This will be done (a) by leveraging the Wisdom of the Crowds reflected in the rich context and reflective information in the Social Web for driving innovative, concise and socially-aware content appraisal and selection processes for preservation, taking events, entities and topics as seeds, and by encapsulating this functionality into an adaptive decision support tool for the archivist, and (b) and by using Social Web contextualization as well as extracted information on events, topics, and entities for creating richer and socially contextualized digital archives.

The Social Web not only provides a rich source of user generated content. It also contextualizes content and reflects content understanding and appraisal within society. This is done by inter-linking, discussing, commenting, rating, referencing, and re-using content. The ARCOMEM project will analyze and mine this rich social tapestry to find clues for deciding what should be preserved (based on its reflection in the Social Web), how to contextualize content within digital archives based on their Social Web context, and how to best preserve this context. The Social Web based con-textualization will be complemented by exploring topic-centered, event-centered and entity-centered processes for content appraisal and acquisition as well as rich preservation.

L3S Role in the Project

The role of L3S in the project is the development of methods for the consolidation of entities and events that has been extracted from crawled pages to enrich the archive and to guide the crawler. Furthermore L3S is working on approaches for the detection of dynamics in languages e.g. to identify new synonyms for entities. Furthermore work in Social Web analysis and crawler development address the prioritization of URLs for guiding the crawler.

Potential applications

Two applications are used for validating and showcasing the ARCOMEM technology. The first application will target the Social Web driven event and entity aware enrichment of media-related Web archives as they are, for example, required by broadcasting companies. The second application will use the ARCOMEM technology for the effective creation of Social-web-aware political archives based on Web archives and other digital archives.

For more information about the project please look at the ARCOMEM homepage. You can also follow us on Twitter.

Logo:

Project abstract:

Leveraging the Wisdom of the Crowds for Intelligent Preservation ARCOMEM is about supporting institution of memory such as: archives, museums and libraries in the age of the Social Web. Social media is becoming more pervasive in all areas of life. ARCOMEM’s aim is to: help transform archives into collective memories that are more tightly integrated with their user community; and exploit Web 2.0 and the wisdom of crowds to make Web archiving a more selective and meaning-based process.

Project duration:
01.01.2011 - 31.12.2013

Bibsonomy show project publications:
0

Bibsonomy use tabs to list publications:
0

Members:
gossen
fisichella
holzmann
zenz
tahmasebi

Project manager:
Dr. Thomas Risse

Project type:
Intelligent Access to Information

Research Area:
Intelligent Access to Information

Status of the Project: