

Invited Speaker:

Prof. Dr. Gerd Stumme

[Knowledge and Data Engineering, University of Kassel](#)

stumme @ cs. uni-kassel. de

Information Retrieval and Knowledge Discovery in Folksonomies

Abstract

Social bookmarking systems allow users to organize and share bookmarks, photos, etc. on the web. The reason for the success of these systems lies mainly in the fact that no specific skills are needed for publishing and editing. As these systems grow larger, however, the users feel the need for more structure for better organizing their resources. This, together with the new underlying data structure - so-called folksonomies -, provides new challenges for the research areas of information retrieval and knowledge discovery.

In the talk, I will first demonstrate our social bookmarking system BibSonomy <<http://www.bibsonomy.org/>>, which supports the scientific community in organizing and sharing bookmarks and lists of publication references; and which serves as a platform for our experiments with IR and KDD algorithms. In the second part of the talk, I will present selected research results, including a ranking algorithm and a triadic clustering algorithm for folksonomies.