International Journal on Digital Libraries

Call for Papers

Special Issue on:  
Online Catalogues/Recommender Systems

Bringing all types of digital content closer to the user is a prime purpose of digital libraries, mediating between information needs and the wealth of available digital content. Therefore, the research area digital library, in addition to new forms of information institutions and organizations; operational information systems with all manner of digital content, also embraces new means of selecting, collecting, organizing, distributing, and accessing digital content as a central research topic.

Complementing search and navigation, recommender systems with their proactive and personalized characteristics in supporting selection processes for products, services, digital content and even persons have gained much popularity. Analysis and evaluation of buying patterns, customer profiles are flourishing. This, for example, includes Web shops and online stores, which give customers hints about other products: "customers who bought this also bought ...". The proliferation of recommender systems, which we experience nowadays, is partially due to the general popularity of community-based services as it also drives social networks. Furthermore, effective recommendation methods have been developed, typically predicting future user behavior or preferences based on observed behavior of similar users.

During the last decade digital content has transformed its distribution landscape. As a result, recommender systems are also becoming an increasingly important way to navigate, discover and personalize content in large online catalogues and digital collections, over platforms from web to mobile and beyond, and using a wide variety of technologies including collaborative filtering, role-based personalization and case-based reasoning. There is a real need today that library systems use recommendations, supporting the process of searching items in large digital collections.

In addition, digital libraries are also increasingly understood as a global information space consisting of linked data. More than just a vision, the Web of Data has been brought into being by the maturing of the Semantic Web technology stack, and by the publication of large datasets according to the principles of Linked Data. Online catalogues could be built based on these new technologies therefore Linked Data has an increasingly substantial role that becomes more and more the subject of further digital library research.
This focused issue will solicit high quality papers on recommendation systems embedded into digital library access services and any aspects of Online Catalogues/Recommender Systems, including but not limited to:

- Recommendation algorithms
- Theoretical aspects of recommender systems
- Machine learning for recommendation
- Scalability of recommender systems and online learning
- Similarity measures
- Evaluation metrics and studies
- Transparency and explanations
- User and impact studies, user centered design
- User modeling
- Evaluation of criteria for assessing recommendations
- Recommendation in catalogue systems and social networks
- Novelty, familiarity and serendipity
- Exploration and discovery in large catalogues
- Innovative recommendation applications
- Architectures and novel features of online catalogues and/or recommender systems
- Security, privacy, trust, and reputation management
- Interoperability of multi-institutional recommender systems
- Novel user interfaces
- Context-aware, mobile, location-based, and multidimensional models
- Semantic web and open data linkage, collection, integration
- Storage and interlinking of heterogeneous objects and/or records
- Approaches and algorithms to deriving implicit knowledge from the web of linked data
- Case studies of real-world implementations, empirical evaluation of existing systems

**Important Dates**

- Paper Submission deadline: December 1, 2013
- First notification: March 1, 2014
- Revision submission: May 1, 2014
- Second notification: July 1, 2014
- Final version submission: September 1, 2014

**Guest Editors**

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Paper Submission

Papers submitted to this special issue for possible publication must be original and must not be under consideration for publication in any other journal or conference. Previously published or accepted conference papers must contain at least 30% new material to be considered for the special issue.

All papers are to be submitted by referring to http://www.springer.com/799. At the beginning of the submission, under “Article Type”, please select the appropriate special issue. All manuscripts must be prepared according to the journal publication guidelines which can also be found on the website provided above. Papers will be reviewed following the journal standard review process.

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