Universal Recommender System (Unresyst)

Petr Cvenoš
Charles University in Prague

Problem analysis and design of a solution

Review of existing work

Universal Recommender architecture, prototype implementation

Universal Recommender

Domain independence

Recommender interface

Algorithms

Preference

Explicit Feedback

Implicit Feedback

Using various types of knowledge

Similarity

Bias

Combining derived preferences

Knowledge-based Recommender above Collaborative filtering

Verification on various domains

Music: Last.fm

Films: Flixster

Travel Agency

Recommender evaluation, comparison

Unresyst more successful on implicit feedback data sets

Unresyst improved the accuracy of collaborative filtering on explicit feedback data sets

http://code.google.com/p/unresyst/