Decision Support for Learners in Mash-Up Personal Learning Environments

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Personal Environments

Most-popular Web 2.0 Tools and Applications

Social Bookmarking
Blog Reader
Various Communities
More Information Providers

GO2WEB20
Personal Learning Environments

http://pcm.tencompetence.org

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PLEs are Mash-Ups

Mash-Up Personal Learning Environment MUPPLE

http://blog.core-ed.net/derek/2006/11/more_on_mles_and_ples.html
MUPPLEs follow the Learning Networks concept

The learner is in centre stage, not the organization.

Learners can publish, share, rate, tag and adjust learning content and customize and construct their own PLEs.

Open Corpus that emerges form the bottom upwards

(Koper & Sloep, 2002)
Informal learning = emergence
Selection problem because …

…of the amount of data that is emerging in MUPPLEs.

…learners can be overwhelmed by the plethora of information.
Can we create a Recommender System for MUPPLEs?
What is ReMashed?

A Mash-up environment that allows you to personalize emerging information of online communities with a recommender system.

You tell what kind of Web 2.0 services you use and then you are able to define which contributions of other members you like and do not like.
Goals for ReMashed

1. **End-User level**
   Providing a recommender system for Web 2.0 sources of learners in MUPPLEs.

2. **Researcher level**
   1. Offering researchers a system for the evaluation of recommendation algorithms for learners in MUPPLEs.
   2. Creating user-generated-content data sets for recommender systems in MUPPLEs.

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How does it work?

ReMashed uses *collaborative filtering* to generate recommendations.

It works by matching together users with **similar tastes** (neighbours) on different Web 2.0 resources (delicious, Flickr, blog feeds, Slideshare, Twitter, and YouTube).
How does it work?

Cold-Start = Tag-based recommendation

Collaborative Filtering with ratings
Version 1.0

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User Profile

Delicious username: 
Flickr username: 
Blog Rss feed of blog: 
Slideshare username: 
Youtube username: 
Twitter username: 

It is mandatory to specify at least one Web 2.0 service.
If you specify more than one Web 2.0 service we can predict better recommendations for you.

Interest A: technology enhanced learning
Knowledge Level A: 0 1 2 3 4 5

Please specify three main interests and your knowledge level in the particular interest.
0 = Beginner 5 = Expert

Interest B: language learning
Knowledge Level B: language technology

Interest C:
Knowledge Level C: 0 1 2 3 4 5

How to match context of learners?
Future R&D

End-user Level
- More Web 2.0 services
- Widget / Portlet interface
- Administration interface

Researcher Level
- Data sets for TEL (Including resources and learner data)
- New recommendation approaches (tag-based algorithms, hybrid approaches)
Please sign up at:

http://remashed.ou.nl
Many thanks for your interest!

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