a lightweight ontology-based peer-to-peer recommendation system

Annotate
...books, movies, games, etc., using features from domain ontologies built by others and, if necessary, extended by you.

Share
...the items you annotated with friends in your contact list. Of course your friends’ annotations will be visible to you, too.

Discover
...items of interest to you – recommended based on content features created by you and your friends along with explanations.

Discuss and Disagree!
If you disagree with an annotation created by others, just create a contrary annotation referencing the annotation in question.

Scenario - Creating, sharing, and using a repository of knowledge on items (songs, books, movies, software, ...).

Problem - Keeping the system flexible and open while using strongly structured data in a multi-user scenario with diverging opinions on items.

Idea - Build a repository with strong personalization. For annotating items, use an extended tagging system featuring hierarchy and allowing negative annotations.

Approach - Users create their own facts databases. Sharing is handled via XMPP with a group of peers. Opinions about items adhere to domain ontologies and each carry confidence/applicability/comment information. Data is aggregated on application level.

Result - A distributed system that can handle inconsistent statements about items from different users, supports focused discussions, and allows personalized recommendations and item summarizations.

http://skipforward.opendfki.de/