An Integrated Semantic Model based on Metadata and Folksonomy Aggregation

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Abstract

Data provider usually adapts metadata to organize their data objects and to better communicate with their users. However, it results in a variety of limitations on user behaviors including restricted categories, expert-oriented classifications, and single point of view, etc. If one could combine the original metadata with user behavior ingeniously, e.g., by extracting and combining related objects indicated by user usages with the professional depth embedded in the original metadata, the applicability of data could be increased with additional benefits such as: expanded scope on related articles beyond which originally annotated by the data provider, increased flexibility in classification, enhanced information search results, and enriched semantic in a specific object.

Model Goal

Expand user-oriented classification or behaviors in existing metadata data.

Processing

- ☐ Terms Processing
  - Cluster by frequency, location, parallelism and neighborhood effect
  - Lexical processing
  - Term weighting
  - Multi-terms matrix
- ☐ Noise Removal
  - Establishing controlled vocabularies.