Abstract

Constructing a faceted vocabulary to provide dynamic organization might be an effective approach to retrieval of digital information. Application of faceted vocabulary can create a classification structure tailored to the intellectual content of a resource collection and provide dynamic hierarchical structures capable of responding to the individual’s immediate information need by allowing the user to generate his own ordering of the facets. In this research, construction of the faceted vocabulary began with analyzing data set from an existing a structured vocabulary, “Environmental Protection Agency (EPA) Topics”. We have described the possibility for the constructing a faceted vocabulary using an existing representational structure. We applied middle-out, hybrid semi-automatic approaches to generate the faceted vocabulary. These approaches integrate the strengths of human intelligence (cognitive processes) and the powerful capabilities of the machine (automated processes). By combining these approaches, we can overcome problems that limit the traditional construction process in order to generate a high quality faceted scheme for organizing Web resources.

References