ATOM: Automatic Integration of Ontologies
Optimized for Large Product Catalogs
Automatic Creation of Mappings
Preservation of the Target Structure

web data integration lab

ATOM in COMA++

The increased usage of ontologies and taxonomies requires the integration to provide a unified view on them. Our new approach ATOM offers a solution to automatically combine large ontologies and taxonomies, such as product catalogs or web directories.

ATOM uses in addition to equivalence relationships also generalization and specialization between a source and target taxonomy. These relationships can be automatically generated by our matching prototype COMA++ to a large extent. The combination approach is target-driven, i.e. it preserves the structure of the target taxonomy. Redundancies in the resulting ontology are reduced as overlapping source concepts are removed. The result consists of an integrated ontology, and the correspondences between the input taxonomies and the generated taxonomy.

Applications
- Merging Large Electronic Catalogs and Directories
- Automatic Categorization of e.g. Product Data into Target Catalogs
- Supported Adaptation of Ontology Changes

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