

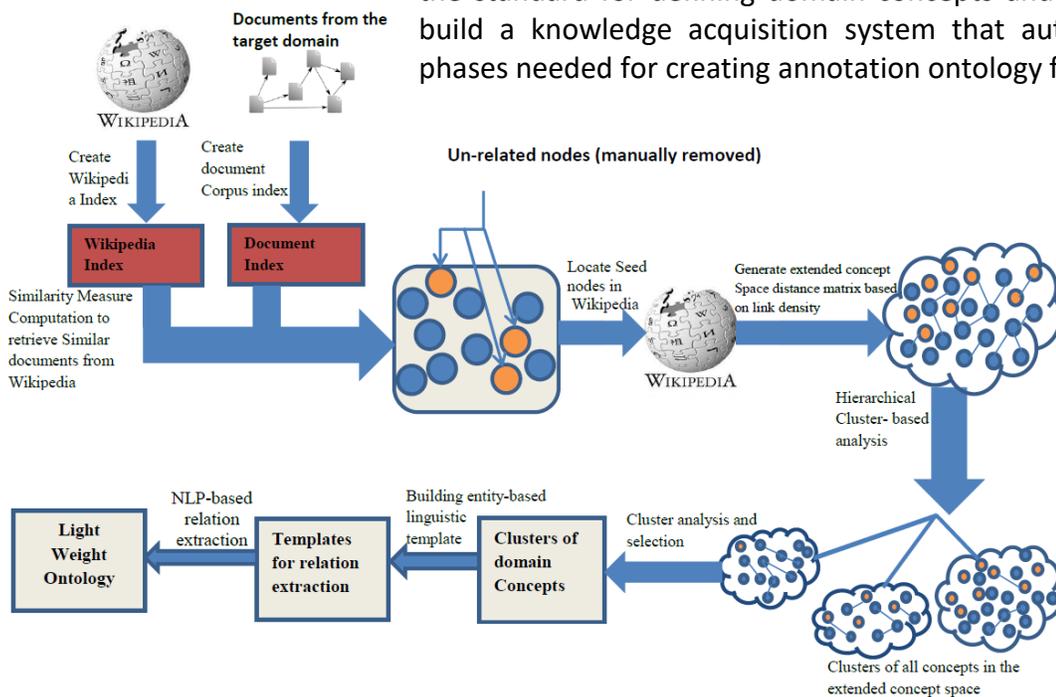
Onto-Wiki: Leveraging Wikipedia for Generating Ontology for the Annotation of a Domain Corpus



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Defining of domain ontology provides the framework for organizing the intra- and interspecific relationships between domains and domain constituents. However, creating ontology and ontological structure for a given domain of interest, especially from semi-structured data is expensive, laborious and highly based on human effort and acquisition of domain knowledge. In fact, there exist very few real domain ontologies available, and a large share of ontologies published on the web are outdated, dead collections. Fortunately, researchers at the University of Louisiana at Lafayette have developed and implemented a novel, generalized, automated method that utilizes a Wikipedia-based semantic schema annotation model for extracting ontologies and ontological structure from semi-structured data (Onto-Wiki). Using Onto-Wiki, as

the standard for defining domain concepts and entities, the researchers build a knowledge acquisition system that automates the engineering phases needed for creating annotation ontology for a domain of interest.



A block diagram for the process of generating light weight ontology for the annotation of a domain corpus

KEY ASPECTS OF THE TECHNOLOGY:

- Utilizes a mature, well-organized and informative semi-structured resource, such as Wikipedia;
- Permits automated ontology maintenance; Domain-independent;
- Well suited for web document annotation re Semantic Web realization; building standard annotation for a given domain;
- Research funded by the Center for Visual and Decision Informatics, www.nsfcvdi.org

UL Lafayette recognizes that the current technology may have broad public benefit and commercially valuable to various industries. Accordingly, we seek a commercial partner interested in licensing and/or collaborative research opportunities. To learn more about this research and/or partnership opportunities please contact UL Lafayette's Office Of Innovation Management via the information provided below.

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