Tanapon Tantisripreecha 2010: Supreme Court Sentence Retrieval using Ontology. Master of Science (Computer Science), Major Field: Computer Science, Department of Computer Science. Thesis Advisor: Assistant Professor Nuanwan Soonthornphisaj, Ph.D. 119 pages.

This study presents an algorithm for Supreme Court Sentences Retrieval using Ontology (SCRO). SCRO applies relations of ontology to do query expansion, then; the set of queries are used to retrieve required documents. TFIDF is used to rank the weight of retrieved documents in respect of accuracy. Supreme Court Sentences of Succession Law and Bill of exchange from 1999 - 2009 are used in this study, SCRO, SCRO I and SCRO II are query expansion methods using different in ontology structure and set of queries. Performance of the methods are evaluated by comparing diversified law issues between SCRO methods and traditional methods. The experimental results show that using 2-level ontology with a subset of queries, SCRO II, can enhance the retrieval performance based on diversity value. The diversity coverage measure on Succession law and Bill of exchange law data sets are 72% and 79% respectively.

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