Sl No	Particulars		
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3	PhD Thesis Title	Ontology-Based Mining for the recognition and classification of conceptually similar documents	
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7	Brief synopsis (Max: 200 words) Texts being the important sources of knowledge need to be classified for various applications such as web search, sorting emails and email routing. Text classification, the task of assigning a predefined set of labels to a text is gaining importance with the increasing amount of textual documents available both offline and online. Most of the research in text classification is based on keywords or bag-of-words approach. Bag-of-words although simple and easy to implement suffers from low precision and recall. Hence, it is necessary to mine the text for extracting the knowledge conveyed in the form of concepts for effective classification of texts instead of inefficient and inaccurate classification based on keywords. The conceptual knowledge so extracted is modeled as Ontology, which is a collection of concepts and their interrelationships. It is observed that very little work is done on automatic constructing of Ontologies and also Ontologies are not fully utilized for the text classification task. The objective of this research is to devise efficient algorithmic models for automatic construction of Ontology by extracting the conceptual knowledge for proper recognition and classification of texts under more than one category. The proposed research attempts to devise a multistage model for constructing Ontology by extracting the knowledge from the text, so that a given text could be properly recognized and labeled under different categories. It is proposed to design a domain dependent lexicon for pre-processing. Graph theoretic approach would be adopted for Ontology representation so that assigning labels to a text could become convenient by computing ontological distance measures. The effectiveness of the new models will be demonstrated by working on classified matrimonial advertisements. A comparative study of the proposed algorithms will be made with the very well accepted contemporary algorithms.		