

# Paper 1:A NOVEL ONTOLOGICAL DOMAIN MODEL FOR INFORMATION RETRIEVAL WITHIN DIGITAL LIBRARY

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**AUTHOR:** B.Samatha

**TITLE :**A NOVEL ONTOLOGICAL DOMAIN MODEL FOR INFORMATION RETRIEVAL WITHIN DIGITAL LIBRARY

**ABSTRACT:**A digital library is a type of information retrieval (IR) system. The existing information retrieval models generally have problems on keyword-searching. A proposed model to solve the problem by using concept-based approach (ontology) and metadata case base. This model consists of identifying domain concepts in user's query and applying expansion to them. This Model aims at contributing to an improved relevance of results retrieved from digital libraries by proposing a conceptual query expansion for intelligent concept-based retrieval. We need to import the concept of ontology, making use of its advantage of abundant semantics and standard concept. Domain specific ontology can be used to improve information retrieval from traditional level based on keyword to the lay based on knowledge (or concept) and change the process of retrieval from traditional keyword matching to semantics matching. One approach is query expansion techniques using domain ontology and the other would be introducing a case based similarity measure for metadata information retrieval using Case Based Reasoning (CBR) approach. Results show improvements over classic method, query expansion using general purpose ontology and a number of other approaches.

**KEYWORDS:** Digital library, Domain ontology, Information access, Intelligent information retrieval, Query expansion

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