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An Approach For Information Retrieval For Bookstores Using Formal Ontology

*Sumit Jain ** C.S.Bhatia

*, ** SIA, Indore

ABSTRACT

A journal is a periodical review publication proposed to publish the progress of technology, usually by reporting new research and their results. Scholars have many questions regarding the type of new research, their methodology, type of new application to be used,

Formal ontology is the building block of the semantic web. Earlier research on ontology design methodologies shows that manual construction of ontology is a complex process and it is very difficult for a designer to develop a consistent ontology. Our main goal is to design such system where scholar can get enough information on the query he raised. Scholar will give the input query and list of match information result will generate from the web database in specific domain which contain group of documents.

Keywords : Ontology, the Query Techniques, RDF

Introduction

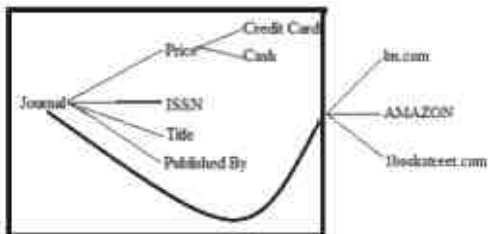
Our Existing work addresses the problem of searching required information from Online Journals of Bookstores. Journal has a long history

The journal named "Science" is the American journal established since 1880. It was published in 1965-71 and its name is British science magazine.

Scholars have many queries on these journal papers depending on topics, methodology, algorithm, application used on paper etc. To handle these queries, the old procedure was to collect the questions from scholar and record these questions, then search for the answers to these questions manually from documents provided by the experts. My paper focuses on the automated process, where scholars submit the query and list of match result will generate from the web database which contain group of document[10].

For Example, Formal ontology is designed independently so we built Journal ontologies for same type of Journal domain and used for Bookstores Fig 1.

Fig 1: Design a formal ontology for same type of Journal domain



This paper focuses on the new way of developing system using either name of schema element and structure of the schema or formal ontology where knowledge is added to search engine to make the search more refined. This is mainly possible by the use of formal ontologies which contain terms and relationship between terms that have been agreed upon by members of a certain domain. These agreed upon

ontologies can then be published to be available for use by other members of the domain.

The main role of this paper is

- Introduction of the automated process of a single Web database that gives exact result related the query.
- Introduction to develop either name of schema element and structure of the schema or formal ontology.
- Introduction of Ontology for Polished Search i.e. search should be polished using ontology.
- Introduction of the query techniques should send domain specific queries to target Web databases and retrieve relevant results for analysis later.
- Introduction of a Resource Description Framework (RDF) triple based on Ontology Base System to make more polished result of searching process.

The rest of paper is organized as follows. In section- 2 we describe Ontology. Section-3 describes System Observation. In sections-4 we describe Purpose of Ontology for Polished Search. Section-5 shows The Query Techniques. Finally section-8 terminates with drawing conclusion.

Ontology

The concept of ontology is not a new concept. In AI (Artificial Intelligent), several definition of ontology is available. These definitions are disagreeing with one another. It is very clear that any type of domain have many ontologies; this particular ontology is structuring with set of concept and relations. The definitions of ontology - A knowledge based system to convert the queries from scholar which may be in non-understandable form to an understandable form. This knowledge based system is called Ontology (Noy and McGuinness, 2001).

Ontologies are expressed in an ontology language. There are a large variety of languages for expressing ontologies [1], For Example, RDF, an ontology language recommended by the World Wide Web Consortium (W3C) [2]. Fortunately, most of these languages share the same kinds of entities, often with having names but with comparable explanation

1. System Observation

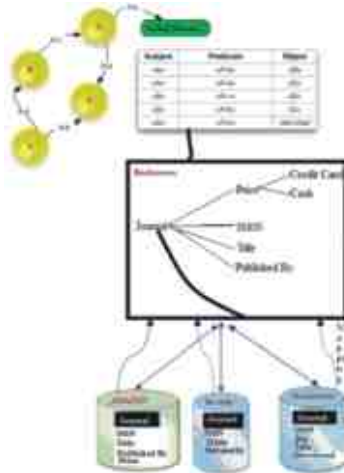
Our observation is based on two approaches about Web database. First, when user fires query on the query (user) interface and submit it on the Web database, we observe two interesting occurrences. When an improper query is submitted to a Web database there are often few results or even no results returned. Second, when proper query is fired it provides exact result from a web database, and then the query keywords very likely reappears in the returned result's corresponding attributes. Shown in Fig 2.

Fig 2: Two approaches of Query Search



For Example, if a user fire the query “find a journal about ontology matching” to a formal ontology, then, an information integration system communicates with local information sources, e.g., www.amazon.com, www.bn.com, 1bookstreet and obtain result that are related to given input provided by the local information sources in Fig 3.

Fig 3: Meaningful global schema between Bookstores application



Purpose of Ontology for Polished Search

Ontology is a form of knowledge representation about the world or some part of it; they are often created in a cooperative process involving different people, sometimes at different places. Our main purpose search should be polished using ontology. Many Scholars already working on ontology for a better polished search but they cannot develop good improved algorithm. So we design search system so that polish search can be performed and relevant results can be displayed.

The Query Techniques

Our main goal is that the query techniques should send domain specific queries to target Web databases and retrieve relevant results for analysis later. In that case a global schema for the specific domain is pre-defined or pre-generated and a number of sample data objects under the domain global schema are also available. Proposed approaches depend on

either the names of schema element and structure of the schema or formal ontology. We plan to implement one of the previously proposed approaches to automatically generate a global schema over a sample set of Web databases and then map new Web databases to the generate global schema[6].

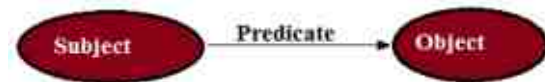
Ontology base system

The Problem with previous approach is to retrieve appropriate document as result. To make more refined search, involvement of Ontology is made to add knowledge to the search engine. The concept of RDF triples is introduced in this regard.

RDF

The RDF data model is similar to classic conceptual modeling approaches such as Entity-Relationship or Class diagrams, as it is based upon the idea of making statements about resources (in particular Web resources) in the form of subject-predicate-object expressions. These expressions are known as triples in RDF terminology. The subject denotes the resource, and the predicate denotes traits or aspects of the resource and expresses a relationship between the subject and the object. RDF is an abstract model with several serialization formats (i.e., file formats), and so the particular way in which a resource or triple is encoded varies from format to format. A collection of RDF statements intrinsically represents a labeled, directed multi-graph Fig 4. As such, an RDF-based data model is more naturally suited to certain kinds of knowledge representation than the relational model and other ontological models. However, in practice, RDF data is often persisted in relational database or native representations also called Triple Stores, or Quad Stores if context (i.e. the named graph) is also persisted for each RDF triple. As RDF Schema and Web Ontology Language (OWL) demonstrate, additional Ontology languages can be built upon RDF [5].

Fig 4: RDF Graph data model



Algorithm

Ontology describes a sequence of specific reasoning steps over domain knowledge. It is a high-level program specification (algorithm). We present algorithm to solve the RDF Ontology integration problem.

The algorithm has five distinct phases:

Step-1: Create two sets of schema

- 1) First Contain only title and remove the common words.
- 2) Second Contain distinguish source and destination to each other.

Step-2: Create list of keyword

Step-3: Search domain related information by entering a query.

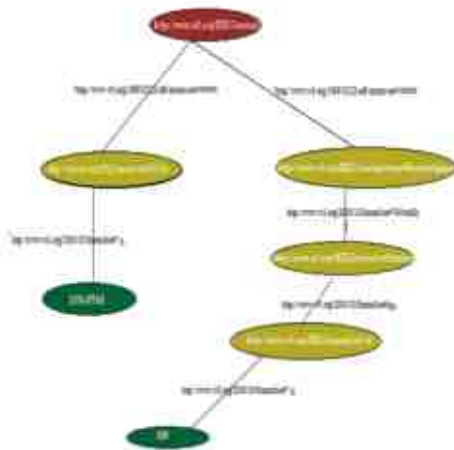
Step-4: Unrelated words in the query are removed and Search relevant keyword from the query.

Step-5: Finally list of result generated according to the keyword of the query. It is compared all the occurrence of the query.

An RDF graph

An RDF graph, or simply a graph, is a set of RDF triples. The RDF graph from the Fig 5 below is written in RDF/XML as follows[7].

Fig 5: Sample of RDF Network as graph



We observe that to capture formal domain concept through a knowledge representing model (e.g. database), Ontology builder are restricted only to capturing and storing the kind of keyword and this information is saved in relational database management system (RDBMS) to manage it afterwards.

All the subjects and objects of triples are mapped to nodes in a network, and properties are mapped to network links that have their start node and end node as subject and object, respectively. The possible node types in an RDF network are blank nodes, URIs, plain literals, and typed literals. Oracle Database has a type named URIType to hold instances of any URI (HttpUri, DBUri, and XDBUri). This type is used to store the names of the nodes and links in the RDF network.

RDF triples

An RDF triple {subject, property, object} is treated as one database object [8, 9].

Query: What is journal ISSN no?

Source	Predicate	Object
Journal	Contain	Research Paper
Research Paper	Written by	Author
Author	Has	ID
ID	Is	101
Journal	Contain	ISSN no
ISSN no.	Is	1334-567

Result: And we get results just like

File 1: en.wikipedia.org/wiki/International_Standard_Serial_Number Score of Content: 345678

File 2: www.bioscience.org/atlas/jourabbr/list.htm Score of Content: 345789

Conclusion and Future work

We have described the RDF based ontology for Online Bookstore. Formal ontology is designed independently so we built Journal ontologies for same type of Journal domain and used for Online Bookstores. In this paper, we highlight the problem of query in which there is a discrepancy between user query and web results shown from the Web databases. We proposed the automated process of a single Web database that gives exact result related the query and to develop either name of schema element and structure of the schema or formal ontology where knowledge is added to search engine to make the search more polished. We plan to improve the efficiency of searching through classifying documents and suggest similar documents by using created ontology. We investigate a unified solution of this problems based on domain-specific the query techniques to generate global schema and then map new Web databases to generate global schema.

Researcher, who is wanted to work in Ontology development this paper, is very useful. We plan to extend this work to handle not only one to one mappings but also one to many mappings over Web database schema attributes and providing a solution for various other critical ontology issues towards semantic web.

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