



conceptSearching

RETRIEVAL JUST GOT SMARTER

There are Billions of enterprise wide digital and paper documents that don't contribute to a company's knowledge asset. Gain control of this knowledge by being able to search and retrieve any document from your enterprise by using a concept rather than key words with Concept Searching. Paper assets can be scanned/OCR and retrieved with the same search concepts.

What is conceptSearch?

ConceptSearching is the core technology within our powerful text retrieval suite. This unique, language independent technology is the first ever text retrieval solution to integrate relevance ranking based upon the Bayesian Inference Probabilistic Model, concept identification based upon Shannon's Information Theory, and probabilistic latent semantic indexing. Now, true multi-word phrases can be detected and captured for enhanced document and content matching. ConceptSearching was developed using a truly open architecture strategy, providing developers an extremely simple integration environment, with all Application Programming Interfaces (APIs) based on XM and native web services.

Key points

Probabilistic Latent Semantic Indexing, Relevance Ranking based on Probabilistic Model (Bayesian Inference), concept identification based on Shannon's Information Theory, cross platform compatibility via Web Services, all Application Programming Interfaces (APIs) based on XML, transparent access to system internals including the statistical profile of terms. The resultant benefits include cost of ownership orders of magnitude cheaper than the established vendors.

conceptSearching - High Precision and High Recall

This is the core component of ConceptSearching. It is used to analyze text information held in various formats (Word, PDF, XML) and generate an index of compound terms using a statistical approach. From this index a search is able to deliver high precision and high recall which is the basis for the capability and success of solutions based on ConceptSearching.

conceptClassifier

ConceptClassifier is our leading-edge, rules-based, categorization module that provides customers complete control of rules-based descriptors unique to their implementation. This provides an easy to implement and maintain categorization descriptor table through which all rules and terms can be defined and managed. This approach eliminates the error prone results of "training" algorithms typically found in other text retrieval solutions. ConceptClassifier allows for the complete control of categorization, precisely, efficiently and easily. ConceptClassifier identifies, as part of the indexing process, the categories to which each incoming document belongs. Each category is identified by a unique descriptor and is associated with key descriptive words and or phrases held in the database. ConceptClassifier enables the integrator to quickly implement a corporate taxonomy with all documents automatically assigned to zero or more nodes at index time. The taxonomy could then be used as a way of browsing the document collection or as a filter when running ad hoc text based searches.

conceptSQL provides fast integration to various data

To use any text search solution, there must be a fast and convenient way to acquire the source data. ConceptSQL has been developed to provide this capability for documents held in relational databases including document and content management systems. The tool has been developed to complement the ConceptSearching product set.

conceptSharePoint

Concept searching and automatic document classification are now available as fully integrated services within the SharePoint platform. This allows SharePoint users to locate information within SharePoint using concepts rather than simply searching with keywords. The information can be organized in a taxonomy allowing users to browse the collection by topic and then drill down for more detailed information as required. Unstructured information requires some level of search and classification. The better the ability of your system to understand the meaning of unstructured information, the more accurate the search results and therefore the information made available for your staff to make decisions. By automating the classification process, you are saving time, reducing inconsistencies, and allowing your staff to find the right information. The end result is lower cost of ownership with better information access in less time.

Capturing your Knowledge Asset

In an environment where getting the right information to the right people at the right time is critical to an organization's success, business leaders are constantly seeking ways to enhance the effectiveness of their decision making processes. Whether it is the collection and interpretation of raw data into information or the development and implementation of creative solutions to collaboration problems, harvesting knowledge from unstructured information contained in repositories across a wide range of business operating units is the key that opens the door to an organization's intellectual capital.

Public and Private Sector

In both the public and private sectors adversaries strive to gain advantage over each other. Through the use of intelligence (existing knowledge), surveillance (examination), and reconnaissance (investigation) and technical innovations, business units in every type of organization are able to convey environmental awareness and information capabilities to decision makers at every level of their operation. Many times organizations, agencies, and business operating units find their missions aligned to related goals and as a result they end up supporting many of the same customers. When this occurs these different entities may engage themselves in partnerships to enhance their limited capabilities.

Leveraged Capabilities

While the idea of leveraging capabilities to gain superiority is a good goal, it is also a formidable and sometimes unattainable one. Establishing and maintaining access for knowledge users to unique/segregated databases, systems, and secure information communications platforms results in limited end-user access and requires extensively trained administrative and technical resources. Since the content of unstructured information is critically linked to nearly every decision making process across a wide range of business operations, organizations must be able to efficiently process their unstructured information.

Decision Matrix

Embedded within every deliberate and crisis action planning process is a decision matrix that is fueled by unstructured information. This unstructured information presents itself in many forms such as word/PDF documents, PowerPoint presentations, or HTML and XML formatted document types. Knowledge Management (KM) solutions that fail to efficiently manage unstructured information are similar to high performance vehicles that have been filled with low octane fuel -- they fail to reach their potential. Incomplete information discovery and delivery oftentimes leads to decisions that would not have been made had the decision maker been provided with a comprehensive view of a situation. On the other hand, KM solutions that offer simultaneous high recall and high precision, exceptionally high rates of information sorting/classification, language independence, and scalability are like high octane fuel in that same vehicle. Both the driver and the decision maker effectively leverage all of their capabilities.

Knowledge Discovery

A leader in helping organizations maximize their return on intellectual and information resources, the Knowledge Discovery toolset is the "high-octane" fuel in the KM integration business. The successful employment of unique solutions that automate manual processes used to transform unstructured information into "actionable" knowledge, enhance risk communication to leaders, and improve both information flow and collaboration are what sets conceptSearching apart from those who talk about KM and those who deliver KM.

Implicit Intellectual Capital

Leveraging both explicit information and implicit intellectual capital and know-how are key to ensuring that an organization can develop and maintain a competitive advantage over their adversary. Prolonging current manual methods of collecting, indexing, categorizing and classifying unstructured information will guarantee that an organization will continue to discover and deliver incomplete information to decision makers at high manpower and technological integration costs at the expense of programs that have a direct impact on the information dominance that is needed to ensure success in any operation.

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Knowledge Management - Concept Searching