

KC Natural Language Processor



1. KC Natural Language Processor Technology

Patent pending iCommNet® Knowledge Communicator™ (KC) Search is an intelligent, linguistics-based, precision search technology that delivers the most relevant search results to corporate customers in real time. KC Search consists of KC Precision Search, KC Fine Grain Search, and KC Remote Search. What powers precision search is the powerful KC Natural Language Processor™.

KC Natural Language Processor is highly adaptable, scalable, and domain-agnostic. iCommNet created proprietary programming languages, compilers, and a runtime environment to keep language- and application-specific rules external to KC Natural Language Processor engines. Intrinsic Knowledge Language specifies language- and domain-specific knowledge cells; and Behavior Specification Language defines full grammar rules for English, for example, as well as application-specific domain rules that bind application-specific action libraries.

Re-hosting the KC Natural Language Processor to new applications is also simple. Update application-specific domain rules and action libraries; then compile such rules with the IKL and BSL Compilers. When linked, a new KC Natural Language Processor re-hosted for a new application is created.

KC Natural Language Processor is simple to integrate with a wide range of host applications; e.g., with text- or audio-driven Web applications or stand-alone applications in cloud computing or conventional client/server paradigm. Supported by proprietary database, KC Natural Language Processor is also well suited for text- or audio-activated embedded systems.

2. Knowledge- and Linguistics Precision Search Engines

The KC Natural Language Processor technology is what powers iCommNet KC precision search engine products. KC Search is an intelligent, linguistics-based, precision search technology that delivers the most relevant search results to corporate customers in real time.

KC Precision Search returns the most relevant results from a multitude of documents. With KC Precision Search, a user can simply describe what he or she is searching for in conversational English to obtain narrow and specific results.

KC Fine Grain Search is a knowledge-based search algorithm that is fully integrated with KC Precision Search. While KC Precision Search returns the most relevant results from a multitude of documents, KC Fine Grain Search conducts a fine-grain search to return the most relevant passages within those results or within each document selected. KCFGS also performs a fine-grain, intra-document search and highlights the most relevant sections, passages, paragraphs, sentences, phrases, or words within that document.

KC Remote Search supports deep and incremental search, analyzing a large volume of documents for sentences matching the meaning of exemplars—linguistic elements that contain the meanings. KC Remote Search is fully integrated with KC Precision Search and KC Fine-Grain Search.

With the powerful linguistics technology, KC Natural Language Processor makes enterprise search engines precise and intelligent.

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