Big Data Analytics in the German National Library

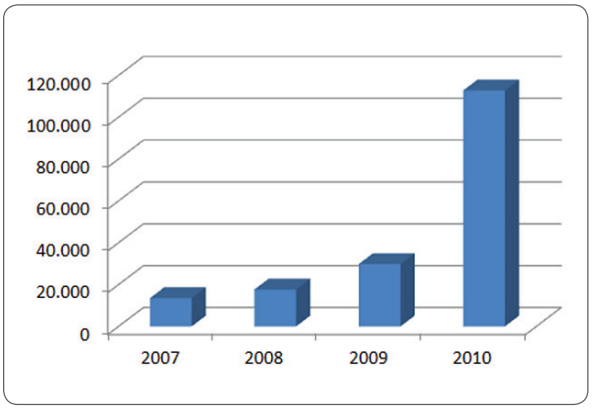
An example of the use of Information Discovery is the generation of automated metadata. Here we offer a tool for the specific extraction of information from documents. The solution identifies single information units, as well as relevant facts and relations. Documents are automatically classified in fields of expertise and relevant keywords are identified.

German National Library

The German National Library has a task unique to Germany of collecting, archiving, extensively documenting, bibliographically indexing and making available to the public all German and German language publications dating back to 1913. Altogether, the entire inventory of the German National Library consists of 26 million units.

Situation

The assimilation of electronic publications in library collections has led to a great increase in documents (diagram), which alone cannot be managed in forms of intellectual processing.



The aim of the collaboration was thus to incorporate automated indexing processes for the categorization and indexing of the repositories, to:

- Significantly reduce the time, effort and costs of indexing
- To overcome previous existing indexing gaps in high quality
- To better support information searches

Key word assignment

With the use of freely selectable word lists and terminologies, key words and descripttors are automatically generated from the texts for content-related structuring and for improved searchability.

Document classification

Articles and text documents are automatically classified for indexing using a freely-definable category system. For example, articles can automatically be assigned to the corresponding department (e.g. „Economy'", Politics").

Results

„The German National Library requires a high quality, automated tapping into of large amounts of textbased contentwise and formally varying, multilingual, digital objects", says the project head, Christa Schöning-Walter. With the solution from Averbis, these tasks can be carried out successfully.

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