

Final Thesis:



Norkbench

Index-Structures for Semantic Faceted Search

→ Background

The increasing amount of data on the Web bears potential for addressing **complex information needs** more effectively. Instead of keyword search and browsing along links between results, users can specify their needs in terms of complex queries and obtain precise answers right away. Particularly in cases where the information need is fuzzy, browsing is useful for exploring the data. Faceted search allows users to browse along facets.

However, in a semantic web context our facet (and facet value) definition is more fine grained, when compared to a traditional Information Retrieval scenario. This leads to a massive amount of facets (and values), resulting in **existing infrastructure solutions** for a faceted search engine being **not suitable** any longer.

	Search Results			
Information Workbench Faceted Search Interface http://iwb.fluidops.com	тура	Entry: xervene invects canno; Sel	Hiter "weens" honese canve? Select Query	
		Image Name of Entity	Description	
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	bithdate		Rodham Clinton, he won his party's nomination, becoming the first mejor party African American candidate for president. In the 2008 general election, he defeated Republican nominee 3-bnh McCain and was insugurated as	
			president on January 20, 2009.	
			Many aspects of the public image of United States President Barack Obama are unusual among American	
	aimaMater	a .	politicians and stand in stark contrast to those of many of his former opponents. During his candidacy for President, his international and biracial background was	

\rightarrow Goal

Goal is to extend an existing implementation – the so-called **Information Workbench** (see http://iwb.fluidops.com) – to support the novel index structures and evaluate their performance wrt. existing solutions. However, note, the Information Workbench is currently developed together with **Fluid Operations** and used by their customers. Thus, this thesis would have a clear impact and an implementation could be used by major industry partners.

→ Requirements

Basic knowledge of semantic and database technologies as well as advanced Java skills are required.

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