## Ranking algorithms

http://static.googleusercontent.com/media/research.google.com/de//pubs/archive/41657.
pdf - Data Fusion: Resolving Conflicts from Multiple Sources — AccuCopy alogithm — discover true values by considering accuracy of a copying between sources. Determine if sources are independent. Copy detection used. AccuCopy converges if source accuracy is ignored.

http://www.ksi.mff.cuni.cz/~pokorny/papers/IADIS-AP05.pdf - Page Content Rank: An approach to web content mining- propose a new Web Content Mining method of a page relevance ranking based on the page content exploration; focused only on exploring the content of pages (unlike PageRank and HITS); page content rank (PCR) - term extraction, parameters calculation, term classification, calculation of page relevance

https://papers.nips.cc/paper/4701-iterative-ranking-from-pair-wise-comparisons.pdf - Iterative Ranking from Pair-wise Comparisons – model independent algorithm; finds "scores" for each object of interest to understand the intensity of the preferences; random walk approach to ranking

https://arxiv.org/ftp/arxiv/papers/1208/1208.1926.pdf - Role of Ranking Algorithms for Information Retrieval

- Page Rank considers the back link in deciding the rank score.
- Weighted Page Rank modification of the original PageRank algorithm. WPR
  decides the rank score based on the popularity of the pages by taking into
  consideration the importance of both the inlinks and outlinks of the pages.
  Every out-link page is given a rank value based on its popularity. Popularity of
  a page is decided by observing its number of in links and out links.
- HITS a link based algorithm. In HITS algorithm, ranking of the web page is decided by analyzing their textual contents against a given query
- Distance Rank Algorithm The main goal of this ranking algorithm is computed on the basis of the shortest logarithmic distance between two pages and ranked according to them so that a page with smaller distance to assigned a higher rank.
- EigenRumor Algorithm
- TF-IDT occurance of words in document taken into consideration

Criteria/Algorithms	PageRank	Weighted	HITS	Distance	EigenRumor
		PageRank		Rank	
Mining techniques	WSM	WSM	WSM &	WSM	WCM
			WCM		
Working process	Computes	Computes	'n' highly	Calculating	Use the
	values at	values at	relevant	the	adjacency
	index time	index time	pages are	minimum	matrix which
	and results	and results	computed	average	is
	are sorted	are sorted	and find	distance	constructed
	on the	on the basis	values on	between	from agent
	priority of	of page	the fly	two pages	to object link
	pages	importance		and more	not page to
				pages	page
Parameters	Inbound	Inbound and	Inbound	Inbound	Agent/Object
	links	outbound	and	links	
		links	outbound		
			links and		
			content		
Complexity	O(log N)	<o(log n)<="" td=""><td><o(log n)<="" td=""><td>O(log N)</td><td><o(log n)<="" td=""></o(log></td></o(log></td></o(log>	<o(log n)<="" td=""><td>O(log N)</td><td><o(log n)<="" td=""></o(log></td></o(log>	O(log N)	<o(log n)<="" td=""></o(log>
Limitations	Query	Query	Topic drift	Needs to	Used for blog
	independent	independent	&	work along	ranking
			efficiency	with	
			problem	PageRank	

WSM – Web Structure Mining

WCM - Web content Mining

## **Problem statements:**

Given a list of claims for a particular event, produce a ranking of values by relevance. Event categories are taken into consideration.

Value types might be different (conflicts) – rank according to data types and event types

Some values may be taken from other sources (copied or referenced). Merge/fuse data for optimal results.