Overview of WebCLEF 2006

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Overview

- A look back
- Aims for 2006
- Topic generation
- 🔒 Tasks

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- Submissions
- 🔒 Results
- Answers

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Questions

A reminder: WebCLEF 2005

🔒 Tasks

- Mixed monolingual: stream of known-item topics in a variety of European languages; language of topic is language of target page
- Multilingual: stream of English known-item topics; desired pages may cover any language

Document collection

EuroGOV: Crawl of European governmental sites; 3M pages

Outcomes

- 11 teams participated; use of metadata makes big difference; CLIR effective for mixed monolingual task
- 549 (!) known-item topics, but issues with collection, issues with task

Main aims for 2006

🔒 "In between" year

- Participants: don't change the collection
- Organizers: why bother manually creating, say, 500 more known-item topics? We already have 549!
- Participants: little interest in helping with ad hoc assessments

Compromise

- Old vs new topics
- Manual vs automatically generated topics

Topic generation 2006

New manual topics created using same interface and settings as

last year

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- Select doc d to be the known-item
- Automatic
- Select a query length k
- Modeling before. S that woul
- Repeat k times:
 - Select a term t from doc model
- Antice Hore detai
- Add *t* to query *q*
- Unigrams, bigrams, noise model

Topics 2006

- 🔒 1940 in total
- 125 new manual topics in 5 languages
 - Butch, English, German, Hungarian, and Spanish
 - Created by UCM (Madrid) and the track organizers
- 195 topics randomly sampled from 2005 test set
- 1620 automatic topics in 27 languages
 - 810 unigram-based, 810 bigram-based

Tasks 2006

Stream of known-item topics in a range of languages

Mixed-monolingual task

- Stream of monolingual known-item topics; language of topic is language of target document
- Manual topics contain an English translation, which allowed for a Multilingual task
 - Stream of English topics; the desired pages may cover any language or domain in the collection

Submissions 2006

- For each task, submit up to 5 runs
- For each topic at least 1 and at most 50 results should be returned
 - Provide a list of metadata used
- Runs submitted by 8 teams
 - BUAP, Depok, Hildesheim, Hummingbird, Reina, RFIA, UCM, UvA
 - Mixed monolingual: 35
 - Multilingual: 1

Results 2006

- Embarrassment ...
- Performance on automatic topics frequently very poor
 - All vs new topics (1,940 vs 1,120—leaving out "0-scoring topics")
- Best run for each team achieved using metadata fields
 - Knowledge of page's primary domain moderately effective
- Old manual vs new manual
 - Returning participants better on old manual topics (compared to 2005)
 - All participants better on new manual than old manual
- Automatic topics harder than manual ones
 - A Max/avg MRR automatic vs manual: 0.3134/0.1015 vs 0.5068/0.2780

Comparing rankings of runs

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		all	auto	auto-uni	auto-bi	manual	manual-new	manual-old
all	au		0.8182	0.7726	0.8125	0.5935	0.6292	0.5707
	p		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
auto	τ			0.9412	0.9688	0.4108	0.4575	0.3945
	p			0.0000	0.0000	0.0006	0.0001	0.0010
auto-uni	au				0.9097	0.3717	0.4183	0.3619
	p				0.0000	0.0019	()	()
auto-bi	τ					0.4029	0.4762	0.3800
	p					0.0008	0.0000	0.0016
manual	τ						0.9123	0.9642
	p						0.0000	0.0000
$\operatorname{manual-new}$	τ							0.8769
	p							0.0000

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Answers 2006

Current CLIR systems quite effective

Impressive as 27 primary domains were involved

- Manually created topics result in higher performance than automatically created ones
- Progress on the old topics, new manual topics seem to confirm this
- Mixed conclusion on usage of automatic topics
 - Substantial differences between automatic topics
 - But scores on automatic topics give a solid indication of performance

Questions 2006

Lack of interest?

Task, document collection, ...

How to move forward with WebCLEF?

Task, collection, assessments, ...

Wanted: reasonable abstraction of a realistic task, using web data, where multi-linguality fits naturally

More at the WebCLEF // session, Friday, 9.00–10.30