Cambridge update

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DELPH-IN related activities in Cambridge

MPhil projects

- Using Distributional Semantics to Improve Parse Ranking: Guy Emerson (Tues pm)
- A user-extensible Kyrgyz-English MT demonstrator: Nargiza Sarkulova
- Incremental Semantic Disambiguation: Shisen Fan
- Extraction of Distributions from a Semantically Annotated Corpus: Hao Li
- Project with IBM (David Mott's talk, Weds am).
- Ongoing distributional work (partly with Aurélie Herbelot).
- PARSEME COST action on MWEs (first meeting in September).

A user-extensible Kyrgyz-English MT demonstrator

- Objective: build a web-based system for MT on simple sentences that non-linguist users can add lexical entries to.
 - 1. Use Matrix to build initial grammar of Kyrgyz.
 - 2. Extend grammar.
 - 3. Use web demo code to build an interactive MT system.

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- 4. Develop templates for lexical entry classes.
- 5. Test with three users.

Many thanks to oe and Emily for advice and help.

Extraction of Distributions from a Semantically Annotated Corpus

- Objective: construct a range of distributional models on Wikiwoods and evaluate.
 - 1. DMRS version of Wikiwoods.
 - Construct distributions with various parameters (no dependency, unlabelled dependency (various lengths), labelled dependency. Formalise similarly to Pado and Lapata.
 - 3. Use standard similarity test set (R & G) for parameter setting.
 - 4. Test on other similarity data (M & C), plus TOEFL synonym.
 - 5. Unlabelled 1-step dependencies perform significantly better than no dependency baseline.
 - 6. Results competitive with other corpus-based approaches (considerable improvement on Pado and Lapata).