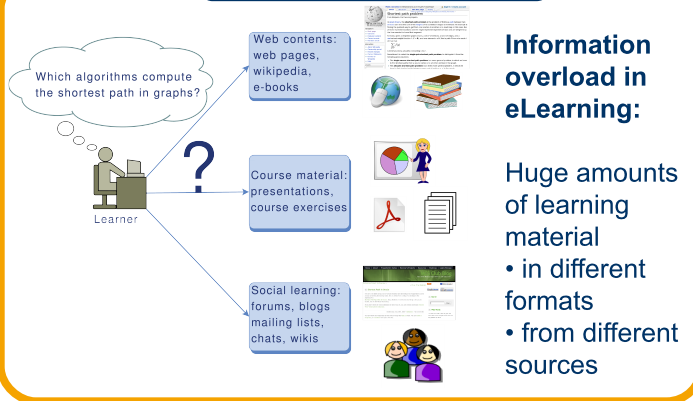


## Motivation



## Goals

- Explore novel applications for dynamic lexical-semantic resources such as Wikipedia**
- Combination with other NLP resources
- Discourse-based knowledge acquisition in eLearning**
- Provide uniform access to both institutional and informal knowledge resources for eLearning
  - Reduce the learner's information overload by giving precise and short aggregated answers
  - Enable human-like interactions

## Methods

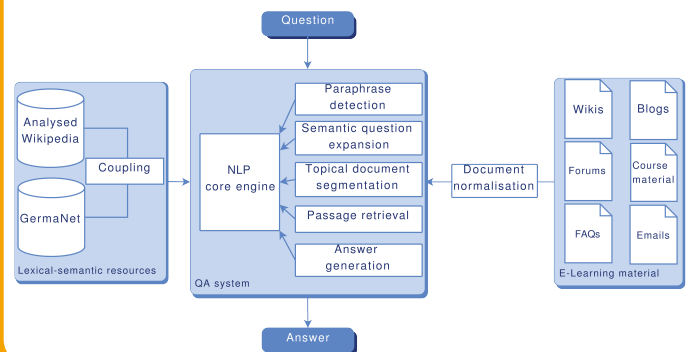
### Integration of lexical and semantic knowledge into Question Answering systems

- Retrieval of lexical and semantic information from Wikipedia
- Combination of Wiki-knowledge with linguistically motivated resources, e.g. GermaNet

### Use of institutional and Web 2.0 eLearning material as information repositories

- Re-use previous question and answer pairs found in FAQs, forums, e-mails etc.

## System Architecture



## Selected Publications

- Müller, C., Gurevych, I. and Mühlhäuser, M. (2007). **Integrating Semantic Knowledge into Text Similarity and Information Retrieval**. In Proceedings of the First IEEE International Conference on Semantic Computing (ICSC'07), Irvine, California, pp. 257-264.
- Zesch, T., Gurevych, I. and Mühlhäuser, M. (2007). **Comparing Wikipedia and German Wordnet by Evaluating Semantic Relatedness on Multiple Datasets**. In Proceedings of NAACL-HLT 2007, Rochester, New York, April, pp. 205-208.
- Weimer, M., Gurevych, I. and Mühlhäuser, M. (2007). **Automatically Assessing the Post Quality in Online Discussions on Software**. In Proceedings of ACL'07, Prague, Czech Rep., June, pp.125-128.

## Funding



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