Question Answering Systems

Topics and Schedule
Potsdam, Germany, 24 October 2011

Saeedeh Momtazi
Information Systems Group
“Who is Warren Moon’s Agent?”

Question Analysis

Question Classification

Query Construction

Document Retrieval

Sentence Retrieval

Sentence Annotation

Answer Extraction

Web

Corpus

“Leigh Steinberg”

Natural Language Processing

Information Retrieval

Information Extraction

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Architecture

“What do people like about Wikipedia?” → Question Analysis
→ Q Semantic Classification → Q Polarity Classification

↓
Query Construction

Corpus → Document Retrieval → Sentence Retrieval

Sentence Annotation → S Opinion Classification → S Polarity Classification

Answer Extraction → Answer Validation

Web

Natural Language Processing
Information Retrieval
Information Extraction
Opinion Mining

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Topics

- Question Analysis
- Question Classification
- Query Construction
- Document Retrieval
- Sentence Retrieval
- S Opinion Classification
- Sentence Annotation
- Answer Extraction
- Answer Validation

Oliver Richter
Sebastian Koelle
Marian Gawron
Gary Yao
Patrick Schulze & Philipp Langer
Nils Rethmeier
Cindy Faehnrich & Stefan Klauck & Sebastian Oergel
MinhTuan Nguyen
Matthias Kohnen
Schedule

- Each Session (90 min)
  - First Slot (30 min):
    - Presentation (20-25 min)
    - Discussion (5-10 min)
  - Second Slot (30 min):
    - Presentation (20-25 min)
    - Discussion (5-10 min)
  - Third Slot (30 min):
    - Discussion and questions about “Who Wants to be a Millionaire?”
Further Information

- **Course Web Page:**
  
  http://www.hpi.uni-potsdam.de/naumann/teaching/ws_1112/question_answering.html

- **Course Mailing list:**
  
  QuestionAnswering2011@hpi.uni-potsdam.de

- **Next Sessions:**
  
  - 31.10.2011 Holiday
  - 07.11.2011 No Seminar
  - 14.11.2011 Unusual Date (17.11.)
Presentations

Answer Validation 17.11.
Sentence Annotation: Named Entity Annotation 17.11.
Sentence Annotation: Dependency Parsing 21.11.
Sentence Annotation: Semantic Role Labeling 21.11.
Question Analysis 28.11.
Question Classification 28.11.
Query Construction 05.12.
Document Retrieval 05.12.
Answer Extraction 19.12.
Opinion and Polarity Classification 19.12.
Discussion

Who Wants to be a Millionaire?
Tasks

- Overall system pipeline: Sebastian Koelle
- Baseline, Section 4.1: Sebastian Kueller & Nils Rethmeier
- Baseline, Section 4.2: Patrick Schulze & Nils Rethmeier
- Dataset: Stefan Klauck