AKSW Colloquium

PhD progress & CubeQA

Konrad Höffner

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Section 1

PhD progress
February 2015–March 2016

Thesis Core Progress

LinkedSpending	✓
QA Survey	revising
CubeQA Short	✓
CubeQA Long	revising
CubeQA Journal	future work
ProcQA(?)	future work

Thesis Core Progress

LinkedSpending	✓	
QA Survey	revising	April 14
CubeQA Short	✓	
CubeQA Long	revising	April 30
CubeQA Journal	future work	2016
ProcQA(?)	future work	2016

2015–now Authorship (Published & Pending)

First Author

- QA Survey
- CubeQA long

Coauthor

- kOre
- AskNow
- *path

2015–now Other Work

- Supervisor for Software Engineering Student Internship “Interactive Budget Calculator for the City of Leipzig”
- Creation of QALD 6 Task 3 Benchmark (QA on RDF Data Cubes)
- GeoKnow service administration (Website, Wiki, Blog)
- GeoKnow documentation
- Reviews for KESW, SWJ, . . .
- aksw.org Website Data Officer MOLE

2015–now

What went well

- QA Survey (thanks for all the help!)
- Coauthorships
- Other Work

What didn’t

- publication of CubeQA long version

Lessons Learned

- focus on formalization
- get more authors on board early to combine strenghts and offset weaknesses
- projects need promotion to become noticed

Section 2

CubeQA

CubeQA

- Question Answering on RDF Data Cubes
- New research sub-field
- CubeQA project: Question Corpus, Benchmarks, TCQA algorithm
- Short Paper Preprint `http://svn.aksw.org/papers/2014/cubeqa/short/public.pdf`
- Long Paper (rejected, revising) `http://svn.aksw.org/papers/2016/IJCAI_cubeqa/submission.pdf`

CubeQA

- Question Corpus: realistic statistical questions from volunteers
- Benchmarks
  - single-dataset
  - choice-among-many-datasets, now QALD 6 Task 3 (current evaluation)
  - combination-among-many-datasets (in progress)
  - hard challenges: implied aggregations, subqueries,
- TCQA: Tree-based Cube Question Answering, first algorithm that can answer these Questions
- $F_1 \approx 0.4$ on QALD 6 Task 3 train

Problems of CubeQA

- long version of CubeQA not published yet
- new research sub-field, needs groundwork
  - needs to solve too many things at once, lack of focus
  - tension between completeness and understandability
- $F_1 = 0.4$ not deemed high enough (even though only CubeQA can do it at all)
- formalization

CubeQA Paper Current State

http://svn.aksw.org/papers/2016/IJCAI_cubeqa/submission.pdf