

Research topics

Semantic search and information retrieval

Zeynep Parlak (1) (Dec 2)

1. Tran, Thanh, and Peter Mika. **Semantic search-systems, concepts, methods and the communities behind it**. Technical report.
<http://sites.google.com/site/kimducthanh/publication/semsearch-survey.pdf>
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Furkan Aytaç, Rüstem (4-5, Weikum slides) (Nov 25)

4. Fernandez, M., Lopez, V., Sabou, M., Uren, V., Vallet, D., Motta, E., & Castells, P. (2008, August). **Semantic search meets the web**. In *Semantic Computing, 2008 IEEE International Conference on* (pp. 253-260). IEEE.
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5. Gruber, T. (2008). **Collective knowledge systems: Where the social web meets the semantic web**. *Web semantics: science, services and agents on the World Wide Web*, 6(1), 4-13.
<http://w.websemanticsjournal.org/index.php/ps/article/download/129/127> (cited 498)

Gerhard Weikum, **Semantic Search: from Names and Phrases to Entities and Relations**
Keynote at VLDS Workshop 2012, Istanbul, August 31, 2012
<http://www.mpi-sb.mpg.de/~weikum/weikum-vlds-workshop-31aug2012.pptx>

Information extraction and Big Data

Uğur Ayaz (6) (Nov 25)

6. Suchanek, F., & Weikum, G. (2013, June). **Knowledge harvesting in the big-data era**. In *Proceedings of the 2013 international conference on Management of data* (pp. 933-938). ACM.
<http://dl.acm.org/citation.cfm?id=2463724> (cited 8)
<http://resources.mpi-inf.mpg.de/yago-naga/sigmod2013-tutorial/sigmod2013-slides.pdf>

Behnam (Dec 2) (add a paper from one of those topics in the slides)

Mehmet Can OZDEMIR (Nov 25) (add a paper from one of those topics in the slides)

7. Suchanek, F. M., & Weikum, G. (2014). **Knowledge Bases in the Age of Big Data Analytics.** *Proceedings of the VLDB Endowment*, 7(13).
<http://resources.mpi-inf.mpg.de/yago-naga/vldb2014-tutorial/vldb2014-slides.pdf>

Entity linking

Ceyhun Kerimov (18) (Dec 2)

8. Wei Shen, Jianyong Wang, Jiawei Han (2014). **Entity Linking with a Knowledge Base: Issues, Techniques, and Solutions.** *IEEE Transactions on Data and Knowledge Engineering*, DOI: 10.1109/TKDE.2014.2327028
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6823700>

Yunus Gökçer (9) (Nov 18)

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10. Cornolti, M., Ferragina, P., & Ciaramita, M. (2013, May). **A framework for benchmarking entity-annotation systems.** In *Proceedings of the 22nd international conference on World Wide Web* (pp. 249-260). International World Wide Web Conferences Steering Committee.
<http://static.googleusercontent.com/media/research.google.com/en//pubs/archive/40749.pdf>
11. Hakimov, S., Oto, S. A., & Dogdu, E. (2012, May). **Named entity recognition and disambiguation using linked data and graph-based centrality scoring.** In *Proceedings of the 4th International Workshop on Semantic Web Information Management* (p. 4). ACM.
<http://edogdu.etu.edu.tr/wp-content/uploads/2005/01/2012-nerso-swim.pdf> (cited 12)

NIST TAC Knowledge Base Population (KBP2014) **Entity Linking Track**

<http://nlp.cs.rpi.edu/kbp/2014/>

Reading list: <http://nlp.cs.rpi.edu/kbp/2014/elreading.html>

Tools: <http://nlp.cs.rpi.edu/kbp/2014/tools.html>

Question answering

Mustafa Kılıç (12) (Nov 25) (makale 17 olabilir mi 12 yerine?)

12. Lopez, V., Uren, V., Sabou, M., & Motta, E. (2011). **Is question answering fit for the semantic web?: a survey.** *Semantic Web*, 2(2), 125-155.
http://oro.open.ac.uk/29573/1/swj124_3.pdf (cite 58)
13. Lopez, V., Unger, C., Cimiano, P., & Motta, E. (2013). **Evaluating question answering over linked data.** *Web Semantics: Science, Services and Agents on the World Wide Web*, 21, 3-13.
<http://mx1.websemanticsjournal.org/index.php/ps/article/download/339/351> (cited 14)
14. Pound, J. (2013). **Interpreting and Answering Keyword Queries using Web Knowledge Bases** (Doctoral dissertation, University of Waterloo).
https://uwspace.uwaterloo.ca/bitstream/handle/10012/7728/Pound_Jeffrey.pdf?sequence=1

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15. Unger, C., Freitas, A., & Cimiano, P. **An introduction to Question Answering over Linked Data.**
http://andrefreitas.org/papers/preprint_introduction_qa_linked_data.pdf
<http://www.slideshare.net/andrenfreitas/question-answering-over-linked-data>
16. Hakimov, S., Tunc, H., Akimaliev, M., & Dogdu, E. (2013, March). Semantic question answering system over linked data using relational patterns. In *Proceedings of the Joint EDBT/ICDT 2013 Workshops* (pp. 83-88). ACM.
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Question Answering over Linked Data (QALD-4)
<http://greententacle.techfak.uni-bielefeld.de/~cunger/qald/>

Document and Text Classification

Mehmet Mert Yücesan (18-19) (Dec 2)

18. Fripp, D. (2010, November). **Using linked data to classify web documents.** In *Aslib Proceedings* (Vol. 62, No. 6, pp. 585-595). Emerald Group Publishing Limited.
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19. Varga, Andrea, Amparo Elizabeth Cano Basave, Matthew Rowe, Fabio Ciravegna, and Yulan He. **"Linked Knowledge Sources for Topic Classification of Microposts: A Semantic graph-based approach."** *Web Semantics: Science, Services and Agents on the World Wide Web* (2014).
<http://pop.websemanticsjournal.org/index.php/ps/article/viewFile/360/381>

Mustafa Büküm (20) (Nov 18)

20. Cano, Amparo E., Andrea Varga, Matthew Rowe, Fabio Ciravegna, and Yulan He. **"Harnessing linked knowledge sources for topic classification in social media."** In *Proceedings of the 24th ACM Conference on Hypertext and Social Media*, pp. 41-50. ACM, 2013.

Uğur Sopaoğlu (21) (Nov 18)

21. Wang, Yu, Tom Clark, Eugene Agichtein, and Jeffrey Staton. **"Towards Tracking Political Sentiment through Microblog Data."** *ACL 2014* (2014): 88.
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Reasoning

Yunuscan Koçak (22) (Nov 18)

22. Axel Polleres, Aidan Hogan, Renaud Delbru, Jürgen Umbrich. "**RDFS & OWL Reasoning for Linked Data**". Chapter in Lecture Notes for the Reasoning Web Summer School, Mannheim, (Springer), July 2013.
http://aidanhogan.com/docs/rw_2013.pdf
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Internet of Things

Ömer Berat Sezer, Serdar Zafer Can (24-27) (Nov 11)

24. Richard Mietz, Sven Groppe, Kay Römer and Dennis Pfisterer.(2013) **Semantic Models for Scalable Search in the Internet of Things**. Journal of Sensor and Actuator Networks, 2(2), 172-195
25. V. Stirbu. (2008) **Towards a RESTful Plug and Play Experience in the Web of Things**. IEEE International Conference on Semantic Computing, 512 - 517
26. L. Mainetti, L. Patrono, A. Vilei. (2011) **Evolution of wireless sensor networks towards the Internet of Things: A survey**. International Conference on Software, Telecommunications and Computer Networks (SoftCOM), 1 - 6
27. Konstantinos Kotisa, Artem Katasonova. (2012) **An ontology for the automated deployment of applications in heterogeneous IoT environments**. Semantic Web – Interoperability, Usability, Applicability an IOS Press Journal

Vision

Arda Bölük (28-29) (Nov 11)

28. Towards Ontology Based Cognitive Vision, Nicolas Maillot, Monique Thonnat, Alain Boucher. Machine Vision and Applications, December 2004, Volume 16, Issue 1, p 33-40.
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