

ACL 2012: 3rd workshop on the People's Web meets NLP: Collaboratively Constructed Semantic Resources and their Applications to NLP

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ACL 2012 Third Workshop

The People's Web meets NLP:
Collaboratively Constructed Semantic Resources and their Applications to NLP

Jeju, Republic of Korea

July 12-13, 2012

<http://www.ukp.tu-darmstadt.de/scientific-community/acl-2012-workshop>

Introduction

Recent recognition of Collaboratively Constructed Semantic Resources (CSRs) such as Wikipedia [1], Wiktionary [2], Linked Open Data [3], and other resources developed using crowdsourcing such as Games with a Purpose [4] and Mechanical Turk [5] has substantially contributed to the research in natural language processing (NLP).

Researchers started to use such resources to substitute for or supplement conventional lexical semantic resources such as WordNet or linguistically annotated corpora in different NLP tasks. Another research direction is to utilize NLP techniques to enhance the collaboration process and its outcome. This improves the overall quality of the CSRs [6,7]. Overall, the emergence of CSRs has generated new challenges to the research field that are to be addressed in the proposed workshop.

The preceding "The People's Web meets NLP" workshops at ACL-IJCNLP 2009 and COLING 2010 have successfully gathered researchers from different areas, and enabled an interdisciplinary exchange of research outcomes and ideas. Such collaboration has contributed to the creation of valuable semantic resources and tools based on CSRs, such as word sense alignments between WordNet, Wikipedia, and Wiktionary [8,9,10], folksonomy and named entity ontologies [11,12], multiword terms [13], ontological resources [14,15], annotated corpora [16], and Wikipedia and Wiktionary APIs.

The obvious next step in this area is to intensify research that demonstrates the effectiveness of the resources mined from CSRs as listed above in a variety of NLP tasks. This is why the 3rd workshop "The People's Web meets NLP" will especially welcome submissions that utilize resources and tools for CSRs. We invite both long and short papers and especially encourage to show the benefit of CSRs in diverse NLP tasks, for example word sense disambiguation [17] and semantic role labeling [18], in addition to further exploration of various aspects of CSRs. We also welcome tutorial-like submissions on using the software for CSRs to facilitate their wide adoption by the NLP community.

- [1] Olena Medelyan, David Milne, Catherine Legg and Ian H. Witten. Mining meaning from Wikipedia. In: International Journal of Human-Computer Studies. 67(9), 2009.
- [2] Torsten Zesch, Christof Müller and Iryna Gurevych. Extracting Lexical Semantic Knowledge from Wikipedia and Wiktionary. In: Proceedings of the Conference on Language Resources and Evaluation, 2008.
- [3] Yuan Ni, Lei Zhang, Zhaoming Qiu, and Chen Wang. Enhancing the open-domain classification of named entity using linked open data. In: Proceedings of the 9th international semantic web conference (ISWC'10), 566-581, 2010.
- [4] Luis von Ahn and Laura Dabbish. General Techniques for Designing Games with a Purpose. Communications of the ACM, 2008.
- [5] Rion Snow, Brendan O'Connor, Daniel Jurafsky and Andrew Y. Ng. Cheap and Fast---But is it Good? Evaluating Non-Expert Annotations for Natural Language Tasks. Proceedings of EMNLP. 2008.
- [6] Rada Mihalcea and Andras Csoma. Wikify!: Linking Documents to Encyclopedic Knowledge. In: Proceedings of the Sixteenth ACM Conference on Information and Knowledge Management, CIKM 2007.
- [7] Daniel S. Weld, Fei Wu, Eytan Adar, Saleema Amershi, James Fogarty, Raphael Hoffmann, Kayur Patel and Michael Skinner. Intelligence in Wikipedia. In: Proceedings of the Twenty-Third Conference on Artificial Intelligence (AAAI-08), 2008.
- [8] Elisabeth Niemann and Iryna Gurevych. The People's Web meets Linguistic Knowledge: Automatic Sense Alignment of Wikipedia and WordNet. In: Proceedings of the International Conference on Computational Semantics (IWCS), pp. 205-214, 2011.
- [9] Christian M. Meyer and Iryna Gurevych. What Psycholinguists Know About Chemistry: Aligning Wiktionary and WordNet for Increased Domain Coverage. In: Proceedings of the 5th International Joint Conference on Natural Language Processing (IJCNLP), 2011.
- [10] Roberto Navigli and Simone Paolo Ponzetto. BabelNet: Building a very large multilingual semantic network. In: Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics (ACL), 2010.
- [11] Noriko Tomuro and Andriy Shepitzen. Construction of Disambiguated Folksonomy Ontologies Using Wikipedia. In: Proceedings of the 2009 Workshop on The People's Web Meets NLP: Collaboratively Constructed Semantic Resources, 2009.
- [12] Yumi Shibaki, Masaaki Nagata and Kazuhide Yamamoto. Constructing Large-Scale Person Ontology from Wikipedia. In: Proceedings of the 2nd Workshop on The People's Web Meets NLP: Collaboratively Constructed Semantic Resources, 2010.
- [13] Silvana Hartmann, Gyuri Szarvas and Iryna Gurevych. Mining Multiword Terms from Wikipedia. In M.T. Pazienza & A. Stellato (Eds.): Semi-Automatic Ontology Development: Processes and Resources, 2011.
- [14] Christian M. Meyer and Iryna Gurevych. OntoWiktionary — Constructing an Semantics for the Masses

Ontology from the Collaborative Online Dictionary Wiktionary. In M. T. Pazienza and A. Stellato (Eds.): Semi-Automatic Ontology Development: Processes and Resources, 2011.

[15] Vivi Nastase, Michael Strube, Benjamin Börschinger, Cäcilia Zirn, and Anas Elghafari. WikiNet: A very large scale multi-lingual concept network. In: Proceedings of the 7th International Conference on Language Resources and Evaluation (LREC), 2010.

[16] Jon Chamberlain, Udo Kruschwitz and Massimo Poesio. Constructing an Anaphorically Annotated Corpus with Non-Experts: Assessing the Quality of Collaborative Annotations. In: Proceedings of the 2009 Workshop on The People's Web Meets NLP: Collaboratively Constructed Semantic Resources, 2009.

[17] Simone Paolo Ponzetto and Roberto Navigli. Knowledge-rich Word Sense Disambiguation rivaling supervised systems. In: Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics (ACL), 2010.

[18] Ana-Maria Giuglea and Alessandro Moschitti. Semantic role labeling via FrameNet, VerbNet and PropBank. In: Proceedings of the 21st International Conference on Computational Linguistics and the 44th annual meeting of the Association for Computational Linguistics (ACL), 2006.

Topics

Specific topics include but are not limited to:

- * Using collaboratively constructed resources and the information mined from them for NLP tasks (cf. Section "References"), such as word sense disambiguation, semantic role labeling, information retrieval, text categorization, information extraction, question answering, etc.;
- * Mining social and collaborative content for constructing structured lexical semantic resources, annotated corpora and the corresponding tools;
- * Analyzing the structure of collaboratively constructed resources related to their use in NLP;
- * Computational linguistics studies of collaboratively constructed resources, such as wiki-based platforms or folksonomies;
- * Structural and semantic interoperability of collaboratively constructed resources with conventional semantic resources and between themselves;
- * Mining multilingual information from collaboratively constructed resources;
- * Using special features of collaboratively constructed resources to create novel resource types, for example revision-based corpora, simplified versions of resources, etc.;
- * Quality and reliability of collaboratively constructed lexical semantic resources and annotated corpora;
- * Hands-on practical knowledge on utilization of CSR APIs and tools or designing crowdsourcing procedures for high quality outcomes.

Though the workshop welcomes any CSRs-related topics, preference will be given to submissions on CSRs' application to NLP tasks, which is the special interest of this workshop edition. Thereby, we encourage the participation of researchers with various backgrounds: from computational linguistics (e.g. parsing and discourse analysis) to NLP applications and other areas that might benefit from collaboratively constructed semantic resources. Given that we receive a sufficient number of tutorial-like submissions, a dedicated presentation session for those will be scheduled.

Extended versions of the papers may be submitted in parallel for publication in an edited volume "The People's Web Meets NLP: Collaboratively Constructed Language Resources." The book will be published in fall - winter 2012 as part of the Springer book series: "Theory and Applications of Natural Language Processing", E. Hovy, M. Johnson and G. Hirst (eds.). Please refer to the open call for contributions shown below:

<http://www.ukp.tu-darmstadt.de/scientific-community/edited-book-the-peop...>

Invited Speaker

To be announced

====Submission Information====

The following is to be confirmed

Full paper submissions should follow the two-column format of ACL 2012 proceedings without exceeding eight (8) pages of content plus one extra page for references. Short paper submissions should also follow the two-column format of ACL 2012 proceedings, and should not exceed four (4) pages, including references. We strongly recommend the use of ACL LaTeX style files or Microsoft

Word Style files tailored for this year's conference, which are available on the conference website (<http://www.acl2012.org/call/sub01.asp>). All submissions must conform to the official ACL 2012 style guidelines announced in the conference website and they must be electronic in PDF.

As the reviewing will be blind, the paper must not include the authors' names and affiliations. Furthermore, self-references that reveal the author's identity, e.g., "We previously showed (Smith, 1991) ...", must be avoided. Instead, use citations such as "Smith previously showed (Smith, 1991) ...". Papers that do not conform to these requirements will be rejected without review.

Submission will be electronic using submission software (<https://www.softconf.com/acl2012/people-web-2012>). All accepted papers will be presented orally and published in the workshop proceedings.

Important dates

March 18, 2012 Paper submission deadline (full and short)

April 16, 2012 Notification of acceptance

April 30, 2012 Camera-ready version due

July 12-13, 2012 ACL 2012 Workshops

The exact date for the workshop "The People's Web meets NLP: Collaboratively Constructed Semantic Resources and their Applications to NLP" is yet to be announced.

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