

CoNLL 2011

CoNLL-2011 Shared Task

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Introduction

This volume contains a description of the CoNLL-2011 Shared Task and the participating systems. This year, the shared task was based on the English portion of OntoNotes 4.0 corpus. The goal was to identify anaphoric mentions – both entities and events – and perform coreference resolution to create clusters of mentions representing the same entity or event in the text.

The OntoNotes data spans five genres and multiple layers of annotation in addition to coreference, including parses, semantic roles, word sense, and named entities, making it a rich and diverse corpus. One of the challenges for the shared task participants (though they were limited by the time constraints of the task) and also for continuing research going forward is to find effective ways to bring these multiple layers of information to bear on the coreference task to improve upon the current state of the art.

As is traditional with CoNLL, we had two tracks – an *open* and a *closed* track. Since world knowledge is an important factor in coreference resolution, even in the closed task participants were allowed to use some limited, outside sources, including WordNet and a pre-computed table predicting number and gender information for noun phrases. For the open task, as usual, participants were allowed to use any other source of information, such as Wikipedia, gazetteers, etc., that did not violate the evaluation criteria designed to protect the test set.

A total of 23 participants submitted system outputs and 21 of them submitted system description papers. We hope that this data set will provide a useful benchmark and spur further research in this important sub-field of language processing.

Sameer Pradhan, on behalf of the Shared Task organizers
May 22, 2011
Cambridge, MA

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Martha Palmer	University of Colorado, Boulder
Lance Ramshaw	BBN Technologies, Cambridge
Ralph Weischedel	BBN Technologies, Cambridge
Nianwen Xue	Brandeis University, Waltham

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Conference Program

Friday, June 24, 2011

8:45–9:00 Opening Remarks

Session I:

9:00–9:20 *CoNLL-2011 Shared Task: Modeling Unrestricted Coreference in OntoNotes*
Sameer Pradhan, Lance Ramshaw, Mitchell Marcus, Martha Palmer, Ralph Weischedel and Nianwen Xue

9:20–9:30 *Stanford’s Multi-Pass Sieve Coreference Resolution System at the CoNLL-2011 Shared Task*
Heeyoung Lee, Yves Peirsman, Angel Chang, Nathanael Chambers, Mihai Surdeanu and Dan Jurafsky

9:30–9:40 *RelaxCor Participation in CoNLL Shared Task on Coreference Resolution*
Emili Sapena, Lluís Padró and Jordi Turmo

9:40–9:50 *Inference Protocols for Coreference Resolution*
Kai-Wei Chang, Rajhans Samdani, Alla Rozovskaya, Nick Rizzolo, Mark Sammons and Dan Roth

9:50–10:00 *Exploring Lexicalized Features for Coreference Resolution*
Anders Björkelund and Pierre Nugues

10:00–10:10 *Rule and Tree Ensembles for Unrestricted Coreference Resolution*
Cicero Nogueira dos Santos and Davi Lopes Carvalho

10:10–10:20 *Unrestricted Coreference Resolution via Global Hypergraph Partitioning*
Jie Cai, Eva Mujdricza-Maydt and Michael Strube

10:20–10:30 *Multi-metric optimization for coreference: The UniTN / IITP / Essex submission to the 2011 CONLL Shared Task*
Olga Uryupina, Sriparna Saha, Asif Ekbal and Massimo Poesio

10:30–11:00 Coffee Break

Friday, June 24, 2011 (continued)

Session II:

11:00–12:30 Poster Session

Combining Syntactic and Semantic Features by SVM for Unrestricted Coreference Resolution

Huiwei Zhou, Yao Li, Degen Huang, Yan Zhang, Chunlong Wu and Yuansheng Yang

Supervised Coreference Resolution with SUCRE

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