Proceedings of the Ninth Conference on Computational Natural Language Learning

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PREFACE

The 2005 Conference on Computational Natural Language Learning (CoNLL-2005) is the ninth in a series of meetings organized by SIGNLL, the ACL special interest group on natural language learning. This year's CoNLL will be held in Ann Arbor, Michigan, on June 29 and 30, in conjunction with the ACL 2005 conference.

This year we encouraged submissions addressing "deeper linguistic phenomena than have typically been covered in the past", a theme reflected in the shared task, and one which will be addressed by our invited speakers, Mark Johnson and Mark Steedman. The latter talk will be part of what should be a very interesting joint session with the Workshop on Psychocomputational Models of Human Language Acquisition organized by William Sakas.

A total of 70 papers were submitted to CoNLL's main session, of which we were able to accept only 19, making this the most competitive CoNLL meeting to date. We are particularly grateful to our program committee for their work reviewing this large number of papers on a tight schedule.

In keeping with the unique tradition of CoNLL, we also have a shared task session this year, on semantic role labeling. This year's task included use of full syntactic parses, a step beyond the chunk-level information used in 2004. The shared task was coordinated by Xavier Carreras and Lluís Màrquez. Common training and test data were made available to all participants, who had to build their learning system and test it on this task. The shared task also achieved a record number of submissions this year, and these proceedings include system descriptions from each of the 19 participants.

In addition to the program committee and shared task organizers, we are very indebted to the 2005 ACL conference organizers, in particular Dragomir Radev, Mirella Lapata, Jason Eisner, and Philipp Koehn, for their help with local arrangements and the publication of the proceedings.

We hope you enjoy this year's meeting!

Ido Dagan and Dan Gildea May 2005

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Invited Speakers:

Mark Johnson, Brown University Mark Steedman, University of Edinburgh

Table of Contents

Main Session

<i>Effective use of WordNet Semantics via Kernel-Based Learning</i> Roberto Basili, Marco Cammisa and Alessandro Moschitti1
A Statistical Semantic Parser that Integrates Syntax and Semantics Ruifang Ge and Raymond Mooney
Search Engine Statistics Beyond the n-gram: Application to Noun Compound Bracketing Preslav Nakov and Marti Hearst
New Experiments in Distributional Representations of Synonymy Dayne Freitag, Matthias Blume, John Byrnes, Edmond Chow, Sadik Kapadia, Richard Rohwer and Zhiqiang Wang
Word Independent Context Pair Classification Model for Word Sense Disambiguation Cheng Niu, Wei Li, Rohini K. Srihari and Huifeng Li
Computing Word Similarity and Identifying Cognates with Pair Hidden Markov Models Wesley Mackay and Grzegorz Kondrak
A Bayesian Mixture Model for Term Re-occurrence and Burstiness Avik Sarkar, Paul H. Garthwaite and Anne De Roeck
Domain Kernels for Text Categorization Alfio Gliozzo and Carlo Strapparava 56
Discriminative Training of Clustering Functions: Theory and Experiments with Entity Identification Xin Li and Dan Roth
Using Uneven Margins SVM and Perceptron for Information Extraction Yaoyong Li, Kalina Bontcheva and Hamish Cunningham
Improving Sequence Segmentation Learning by Predicting Trigrams Antal van den Bosch and Walter Daelemans
An Expectation Maximization Approach to Pronoun Resolution Colin Cherry and Shane Bergsma
Probabilistic Head-Driven Parsing for Discourse Structure Jason Baldridge and Alex Lascarides 96
Intentional Context in Situated Natural Language Learning Michael Fleischman and Deb Roy104
Representational Bias in Unsupervised Learning of Syllable Structure Sharon Goldwater and Mark Johnson

An Analogical Learner for Morphological Analysis Nicolas Stroppa and François Yvon 12	:0
Morphology Induction from Term Clusters Dayne Freitag 12	:8
Beyond the Pipeline: Discrete Optimization in NLP Tomasz Marciniak and Michael Strube 13	6
Investigating the Effects of Selective Sampling on the Annotation Task Ben Hachey, Beatrice Alex and Markus Becker	.4
Shared Task	
Introduction to the CoNLL-2005 Shared Task: Semantic Role Labeling Xavier Carreras and Lluís Màrquez	2
Inferring Semantic Roles Using Sub-categorization Frames and Maximum Entropy Model Akshar Bharati, Sriram Venkatapathy and Prashanth Reddy	i5
Semantic Role Labelling with Tree Conditional Random Fields Trevor Cohn and Philip Blunsom 16	i9
A Joint Model for Semantic Role Labeling Aria Haghighi, Kristina Toutanova and Christopher Manning	'3
Sparse Bayesian Classification of Predicate Arguments Richard Johansson and Pierre Nugues 17	'7
Generalized Inference with Multiple Semantic Role Labeling Systems Peter Koomen, Vasin Punyakanok, Dan Roth and Wen-tau Yih	31
Semantic Role Labeling via Consensus in Pattern-Matching Chi-San Lin and Tony C. Smith	5
Semantic Role Labeling System Using Maximum Entropy Classifier Ting Liu, Wanxiang Che, Sheng Li, Yuxuan Hu and Huaijun Liu	59
Semantic Role Labeling as Sequential Tagging Lluís Màrquez, Pere Comas, Jesús Giménez and Neus Català	13
Semantic Role Labeling Using Support Vector Machines Tomohiro Mitsumori, Masaki Murata, Yasushi Fukuda, Kouichi Doi and Hirohumi Doi 19	17
<i>Hierarchical Semantic Role Labeling</i> Alessandro Moschitti, Ana-Maria Giuglea, Bonaventura Coppola and Roberto Basili20)1
Semantic Role Labeling Using libSVM Necati Ercan Ozgencil and Nancy McCracken)5

Maximum Entropy based Semantic Role Labeling Kyung-Mi Park and Hae-Chang Rim 2	209
Semantic Role Labeling Using Lexical Statistical Information Simone Paolo Ponzetto and Michael Strube 2	213
Semantic Role Chunking Combining Complementary Syntactic Views Sameer Pradhan, Kadri Hacioglu, Wayne Ward, James H. Martin and Daniel Jurafsky2	217
Semantic Role Labeling Using Complete Syntactic Analysis Mihai Surdeanu and Jordi Turmo 2	221
Joint Parsing and Semantic Role Labeling Charles Sutton and Andrew McCallum	225
Applying Spelling Error Correction Techniques for Improving Semantic Role Labelling Erik Tjong Kim Sang, Sander Canisius, Antal van den Bosch and Toine Bogers	229
Exploiting Full Parsing Information to Label Semantic Roles Using an Ensemble of ME and SVM Integer Linear Programming	
Tzong-Han Tsai, Chia-Wei Wu, Yu-Chun Lin and Wen-Lian Hsu 2 <i>The Integration of Syntactic Parsing and Semantic Role Labeling</i> 2 Szu-ting Yi and Martha Palmer 2	
	-57

Conference Program

Wednesday, June 29, 2005

8:45	Welcome
	Session 1: Syntax and Semantics
8:50	<i>Effective use of WordNet Semantics via Kernel-Based Learning</i> Roberto Basili, Marco Cammisa and Alessandro Moschitti
9:15	A Statistical Semantic Parser that Integrates Syntax and Semantics Ruifang Ge and Raymond Mooney
9:40	Search Engine Statistics Beyond the n-gram: Application to Noun Compound Bracketing Preslav Nakov and Marti Hearst
10:05	<i>New Experiments in Distributional Representations of Synonymy</i> Dayne Freitag, Matthias Blume, John Byrnes, Edmond Chow, Sadik Kapadia, Richard Rohwer and Zhiqiang Wang
10:30	coffee break
	Session 2: Semantics and Text Classification
11:00	Word Independent Context Pair Classification Model for Word Sense Disambigua- tion Cheng Niu, Wei Li, Rohini K. Srihari and Huifeng Li
11:25	Computing Word Similarity and Identifying Cognates with Pair Hidden Markov Models Wesley Mackay and Grzegorz Kondrak
11:50	A Bayesian Mixture Model for Term Re-occurrence and Burstiness Avik Sarkar, Paul H. Garthwaite and Anne De Roeck
12:15	Domain Kernels for Text Categorization Alfio Gliozzo and Carlo Strapparava
12:40	lunch

Wednesday, June 29, 2005 (continued)

Session 3: Information Extraction and Learning Methods

14:00	Discriminative Training of Clustering Functions: Theory and Experiments with Entity Identification Xin Li and Dan Roth
14:25	Using Uneven Margins SVM and Perceptron for Information Extraction Yaoyong Li, Kalina Bontcheva and Hamish Cunningham
14:50	<i>Improving Sequence Segmentation Learning by Predicting Trigrams</i> Antal van den Bosch and Walter Daelemans
15:15	SIGNLL business meeting
15:40	coffee break
16:10	Invited Speaker: Mark Johnson
	Session 4: Discourse and Anaphora
17:10	An Expectation Maximization Approach to Pronoun Resolution Colin Cherry and Shane Bergsma
17:35	<i>Probabilistic Head-Driven Parsing for Discourse Structure</i> Jason Baldridge and Alex Lascarides

Thursday June 30, 2005

	Session 5: Joint Session with Workshop on Psychocomputational Models of Human Language Acquisition
9:00	Invited Speaker: Mark Steedman
9:50	Steps Toward Deep Lexical Acquisition Sourabh Niyogi (Workshop on Psychocomputational Models)
10:15	Intentional Context in Situated Natural Language Learning Michael Fleischman and Deb Roy
10:40	coffee break
	Session 6: Morphology
11:10	Representational Bias in Unsupervised Learning of Syllable Structure Sharon Goldwater and Mark Johnson
11:35	An Analogical Learner for Morphological Analysis Nicolas Stroppa and François Yvon
12:00	Morphology Induction from Term Clusters Dayne Freitag
12:25	lunch
	Session 7: Learning Methods and Architectures
14:00	Beyond the Pipeline: Discrete Optimization in NLP Tomasz Marciniak and Michael Strube
14:25	Investigating the Effects of Selective Sampling on the Annotation Task Ben Hachey, Beatrice Alex and Markus Becker
14:50	Shared Task: Introduction and System Descriptions
15:30	coffee break
16:00 17:00 18:00	Shared Task: System Descriptions Shared Task: Discussion Closing