

11th Conference on Empirical Methods in Natural Language Processing 2006

(EMNLP 2006)

Held in conjunction with COLING/ACL 2006

**Sydney, Australia
22-23 July 2006**

ISBN: 978-1-61738-500-1

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2006) by the Association for Computational Linguistics
All rights reserved.

Printed by Curran Associates, Inc. (2010)

For permission requests, please contact the Association for Computational Linguistics
at the address below.

Association for Computational Linguistics
209 N. Eighth Street
Stroudsburg, Pennsylvania 18360

Phone: 1-570-476-8006
Fax: 1-570-476-0860

acl@aclweb.org

Table of Contents

Preface	ix
Organizers	xi
Conference Program Outline	xiii
Conference Program in Detail	xiv
 <i>Unsupervised Discovery of a Statistical Verb Lexicon</i>	
Trond Grenager and Christopher D. Manning	1
 <i>An Empirical Approach to the Interpretation of Superlatives</i>	
Johan Bos and Malvina Nissim	9
 <i>Paraphrase Recognition via Dissimilarity Significance Classification</i>	
Long Qiu, Min-Yen Kan and Tat-Seng Chua	18
 <i>Detecting Parser Errors Using Web-based Semantic Filters</i>	
Alexander Yates, Stefan Schoenmackers and Oren Etzioni	27
 <i>Distributional measures of concept-distance: A task-oriented evaluation</i>	
Saif Mohammad and Graeme Hirst	35
 <i>SPMT: Statistical Machine Translation with Syntactified Target Language Phrases</i>	
Daniel Marcu, Wei Wang, Abdessamad Echihabi and Kevin Knight	44
 <i>Phrasetable Smoothing for Statistical Machine Translation</i>	
George Foster, Roland Kuhn and Howard Johnson	53
 <i>The impact of parse quality on syntactically-informed statistical machine translation</i>	
Chris Quirk and Simon Corston-Oliver	62
 <i>Statistical Machine Reordering</i>	
Marta R. Costa-jussà and José A. R. Fonollosa	70
 <i>Re-evaluating Machine Translation Results with Paraphrase Support</i>	
Liang Zhou, Chin-Yew Lin and Eduard Hovy	77
 <i>Exploiting Discourse Structure for Spoken Dialogue Performance Analysis</i>	
Mihai Rotaru and Diane J. Litman	85
 <i>Learning Information Status of Discourse Entities</i>	
Malvina Nissim	94
 <i>Automatic classification of citation function</i>	
Simone Teufel, Advaith Siddharthan and Dan Tidhar	103
 <i>Is it Really that Difficult to Parse German?</i>	
Sandra Kübler, Erhard W. Hinrichs and Wolfgang Maier	111
 <i>Domain Adaptation with Structural Correspondence Learning</i>	
John Blitzer, Ryan McDonald and Fernando Pereira	120

<i>Incremental Integer Linear Programming for Non-projective Dependency Parsing</i>	129
Sebastian Riedel and James Clarke	
<i>Semantic Role Labeling of NomBank: A Maximum Entropy Approach</i>	138
Zheng Ping Jiang and Hwee Tou Ng	
<i>Identification of Event Mentions and their Semantic Class</i>	146
Steven Bethard and James H. Martin	
<i>Extremely Lexicalized Models for Accurate and Fast HPSG Parsing</i>	155
Takashi Ninomiya, Takuwa Matsuzaki, Yoshimasa Tsuruoka, Yusuke Miyao and Jun'ichi Tsujii	
<i>Multilingual Deep Lexical Acquisition for HPSGs via Supertagging</i>	164
Phil Blunsom and Timothy Baldwin	
<i>Lexical Reference: a Semantic Matching Subtask</i>	172
Oren Glickman, Eyal Shnarch and Ido Dagan	
<i>Semantic Role Labeling via Instance-Based Learning</i>	180
Chi-san Althon Lin and Tony C. Smith	
<i>Inducing Temporal Graphs</i>	189
Philip Bramsen, Pawan Deshpande, Yoong Keok Lee and Regina Barzilay	
<i>A Weakly Supervised Learning Approach for Spoken Language Understanding</i>	199
Wei-Lin Wu, Ru-Zhan Lu, Jian-Yong Duan, Hui Liu, Feng Gao and Yu-Quan Chen	
<i>Humor: Prosody Analysis and Automatic Recognition for F*R*I*E*N*D*S*</i>	208
Amruta Purandare and Diane Litman	
<i>Distributed Language Modeling for N-best List Re-ranking</i>	216
Ying Zhang, Almut Silja Hildebrand and Stephan Vogel	
<i>Efficient Search for Inversion Transduction Grammar</i>	224
Hao Zhang and Daniel Gildea	
<i>A Discriminative Model for Tree-to-Tree Translation</i>	232
Brooke Cowan, Ivona Kučerová and Michael Collins	
<i>Modeling Impression in Probabilistic Transliteration into Chinese</i>	242
LiLi Xu, Atsushi Fujii and Tetsuya Ishikawa	
<i>Unsupervised Named Entity Transliteration Using Temporal and Phonetic Correlation</i>	250
Tao Tao, Su-Youn Yoon, Andrew Fister, Richard Sproat and ChengXiang Zhai	
<i>Capturing Out-of-Vocabulary Words in Arabic Text</i>	258
Abdusalam F.A. Nwesri, S.M.M. Tahaghoghi and Falk Scholer	
<i>Using linguistically motivated features for paragraph boundary identification</i>	267
Katja Filippova and Michael Strube	
<i>BESTCUT: A Graph Algorithm for Coreference Resolution</i>	275
Cristina Nicolae and Gabriel Nicolae	

<i>Automatic Construction of Predicate-argument Structure Patterns for Biomedical Information Extraction</i>	
Akane Yakushiji, Yusuke Miyao, Tomoko Ohta, Yuka Tateisi and Jun'ichi Tsujii	284
<i>Protein folding and chart parsing</i>	
Julia Hockenmaier, Aravind K. Joshi and Ken A. Dill	293
<i>Learning Phrasal Categories</i>	
William P. Headen III, Eugene Charniak and Mark Johnson	301
<i>Priming Effects in Combinatory Categorial Grammar</i>	
David Reitter, Julia Hockenmaier and Frank Keller	308
<i>Better Informed Training of Latent Syntactic Features</i>	
Markus Dreyer and Jason Eisner	317
<i>Get out the vote: Determining support or opposition from Congressional floor-debate transcripts</i>	
Matt Thomas, Bo Pang and Lillian Lee	327
<i>Partially Supervised Coreference Resolution for Opinion Summarization through Structured Rule Learning</i>	
Veselin Stoyanov and Claire Cardie	336
<i>Sentiment Retrieval using Generative Models</i>	
Koji Eguchi and Victor Lavrenko	345
<i>Fully Automatic Lexicon Expansion for Domain-oriented Sentiment Analysis</i>	
Hiroshi Kanayama and Tetsuya Nasukawa	355
<i>A Skip-Chain Conditional Random Field for Ranking Meeting Utterances by Importance</i>	
Michel Galley	364
<i>Style & Topic Language Model Adaptation Using HMM-LDA</i>	
Bo-June (Paul) Hsu and James Glass	373
<i>Text data acquisition for domain-specific language models</i>	
Abhinav Sethy, Panayiotis G. Georgiou and Shrikanth Narayanan	382
<i>Corrective Models for Speech Recognition of Inflected Languages</i>	
Izhak Shafran and Keith Hall	390
<i>Lexicon Acquisition for Dialectal Arabic Using Transductive Learning</i>	
Kevin Duh and Katrin Kirchhoff	399
<i>Arabic OCR Error Correction Using Character Segment Correction, Language Modeling, and Shallow Morphology</i>	
Walid Magdy and Kareem Darwish	408
<i>Partially Supervised Sense Disambiguation by Learning Sense Number from Tagged and Untagged Corpora</i>	
Zheng-Yu Niu, Dong-Hong Ji and Chew Lim Tan	415
<i>Automatically Assessing Review Helpfulness</i>	
Soo-Min Kim, Patrick Pantel, Tim Chklovski and Marco Pennacchiotti	423

<i>Joint Extraction of Entities and Relations for Opinion Recognition</i>	431
Yejin Choi, Eric Breck and Claire Cardie	
<i>Feature Subsumption for Opinion Analysis</i>	440
Ellen Riloff, Siddharth Patwardhan and Janyce Wiebe	
<i>Relevance Feedback Models for Recommendation</i>	449
Masao Utiyama and Mikio Yamamoto	
<i>Random Indexing using Statistical Weight Functions</i>	457
James Gorman and James R. Curran	
<i>A Hybrid Markov/Semi-Markov Conditional Random Field for Sequence Segmentation</i>	465
Galen Andrew	
<i>Boosting Unsupervised Relation Extraction by Using NER</i>	473
Ronen Feldman and Benjamin Rosenfeld	
<i>Short Text Authorship Attribution via Sequence Kernels, Markov Chains and Author Unmasking: An Investigation</i>	482
Conrad Sanderson and Simon Guenter	
<i>Entity Annotation based on Inverse Index Operations</i>	492
Ganesh Ramakrishnan, Sreeram Balakrishnan and Sachindra Joshi	
<i>Unsupervised Information Extraction Approach Using Graph Mutual Reinforcement</i>	501
Hany Hassan, Ahmed Hassan and Ossama Emam	
<i>Empirical Study on the Performance Stability of Named Entity Recognition Model across Domains</i>	509
Hong Lei Guo, Li Zhang and Zhong Su	
<i>Statistical Ranking in Tactical Generation</i>	517
Erik Velldal and Stephan Oepen	
<i>Sentence ordering with manifold-based classification in multi-document summarization</i>	526
Paul D Ji and Stephen Pulman	
<i>Quality Assessment of Large Scale Knowledge Resources</i>	534
Montse Cuadros and German Rigau	
<i>Graph-based Word Clustering using a Web Search Engine</i>	542
Yutaka Matsuo, Takeshi Sakaki, Kôki Uchiyama and Mitsuru Ishizuka	
<i>Context-Dependent Term Relations for Information Retrieval</i>	551
Jing Bai, Jian-Yun Nie and Guihong Cao	
<i>Loss Minimization in Parse Reranking</i>	560
Ivan Titov and James Henderson	
<i>Unsupervised Relation Disambiguation with Order Identification Capabilities</i>	568
Jinxiu Chen, Donghong Ji, ChewLim Tan and Zhengyu Niu	
<i>Competitive generative models with structure learning for NLP classification tasks</i>	576
Kristina Toutanova	

<i>Two graph-based algorithms for state-of-the-art WSD</i>	585
Eneko Agirre, David Martínez, Oier López de Lacalle and Aitor Soroa	585
<i>Broad-Coverage Sense Disambiguation and Information Extraction with a Supersense Sequence Tagger</i>	
Massimiliano Ciaramita and Yasemin Altun	594
<i>Learning Field Compatibilities to Extract Database Records from Unstructured Text</i>	
Michael Wick, Aron Culotta and Andrew McCallum	603
<i>Discriminative Methods for Transliteration</i>	
Dmitry Zelenko and Chinatsu Aone	612
<i>Solving the Problem of Cascading Errors: Approximate Bayesian Inference for Linguistic Annotation Pipelines</i>	
Jenny Rose Finkel, Christopher D. Manning and Andrew Y. Ng	618
Author Index	627