

International Conference on Recent Advances in Natural Language Processing 2009 (RANLP 2009)

Borovets, Bulgaria
14 - 16 September 2009

Editors:

**Galia Angelova
Kalina Bontcheva
Ruslan Mitkov**

**Nicolas Nicolov
Nikolai Nikolov**

ISBN: 978-1-5108-1327-4

Printed from e-media with permission by:

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



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

Copyright© (2009) by the Association for Computational Linguistics
All rights reserved.

Printed by Curran Associates, Inc. (2016)

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

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

<i>Unsupervised Relation Extraction for Automatic Generation of Multiple-Choice Questions</i> Naveed Afzal and Viktor Pekar	1
<i>Summary Generation for Toponym-referenced Images using Object Type Language Models</i> Ahmet Aker and Robert Gaizauskas	6
<i>Prepositional Phrase Attachment in Shallow Parsing</i> Vincent Van Asch and Walter Daelemans	12
<i>A Comparative Study of Open Domain and Opinion Question Answering Systems for Factual and Opinionated Queries</i> Alexandra Balahur, Ester Boldrini, Andrés Montoyo and Patricio Martínez-Barco	18
<i>Acquisition of Common Sense Knowledge for Basic Level Concepts</i> Eduard Barbu	23
<i>Unsupervised Knowledge Extraction for Taxonomies of Concepts from Wikipedia</i> Eduard Barbu and Massimo Poesio	28
<i>Exploring Treebank Transformations in Dependency Parsing</i> Kepa Bengoetxea and Koldo Gojenola	33
<i>Contextual Saliency in Query-based Summarization</i> Wauter Bosma	39
<i>Integrating Document Structure into a Multi-Document Summarizer</i> Aurélien Bossard and Thierry Poibeau	45
<i>Cross-Linguistic Sentiment Analysis: From English to Spanish</i> Julian Brooke, Milan Tofiloski and Maite Taboada	50
<i>The Influence of Text Pre-processing on Plagiarism Detection</i> Zdenek Ceska and Chris Fox	55
<i>Combining Finite State and Corpus-based Techniques for Unknown Word Prediction</i> Kostadin Cholakov and Gertjan van Noord	60
<i>Prototype-based Active Learning for Lemmatization</i> Walter Daelemans, Hendrik J. Groenewald and Gerhard B. van Huyssteen	65
<i>From Partial toward Full Parsing</i> Heshaam Faili	71
<i>Grouping Synonyms by Definitions</i> Ingrid Falk, Claire Gardent, Evelyne Jacquy and Fabienne Venant	76
<i>Singular Value Decomposition for Feature Selection in Taxonomy Learning</i> Francesca Fallucchi and Fabio Massimo Zanzotto	82
<i>Improving Text Segmentation by Combining Endogenous and Exogenous Methods</i> Olivier Ferret	88

<i>Edlin: an Easy to Read Linear Learning Framework</i> Kuzman Ganchev and Georgi Georgiev	94
<i>Exploiting the Use of Prior Probabilities for Passage Retrieval in Question Answering</i> Surya Ganesh and Vasudeva Varma	99
<i>Exploiting Structure and Content of Wikipedia for Query Expansion in the Context</i> Surya Ganesh and Vasudeva Varma	103
<i>Text Content and Task Performance in the Evaluation of a Natural Language Generation System</i> Albert Gatt and François Portet	107
<i>Feature-Rich Named Entity Recognition for Bulgarian Using Conditional Random Fields</i> Georgi Georgiev, Preslav Nakov, Kuzman Ganchev, Petya Osenova and Kiril Simov	113
<i>Uncertainty Detection for Information Extraction</i> Bénédicte Goujon	118
<i>Learning to Identify Educational Materials</i> Samer Hassan and Rada Mihalcea	123
<i>Lexicalized Semi-incremental Dependency Parsing</i> Hany Hassan, Khalil Sima'an and Andy Way	128
<i>Identification of Parallel Text Pairs Using Fingerprints</i> Martin Hassel and Hercules Dalianis	135
<i>Stochastic Definite Clause Grammars</i> Christian Theil Have	139
<i>Topic-based Multi-Document Summarization with Probabilistic Latent Semantic Analysis</i> Leonhard Hennig	144
<i>Detection of Opinions and Facts. A Cognitive Approach</i> Yann Vigile Hoareau, Adil El-Ghali and Charles Tijus	150
<i>Evaluating the Impact of Morphosyntactic Ambiguity in Grammatical Error Detection</i> Arantza Díaz de Ilarraza, Koldo Gojenola and Maite Oronoz	155
<i>Fast Boosting-based Part-of-Speech Tagging and Text Chunking with Efficient Rule Representation for Sequential Labeling</i> Tomoya Iwakura	161
<i>Cross-document Event Extraction and Tracking: Task, Evaluation, Techniques and Challenges</i> Heng Ji, Ralph Grishman, Zheng Chen and Prashant Gupta	166
<i>Co-Parsing with Competitive Models</i> Lidia Khmylko, Kilian A. Foth and Wolfgang Menzel	173
<i>Robust Compositional Polarity Classification</i> Manfred Klenner, Stefanos Petrakis and Angela Fahrni	180
<i>Feature Subset Selection in Conditional Random Fields for Named Entity Recognition</i> Roman Klinger and Christoph M. Friedrich	185

<i>User's Choice of Precision and Recall in Named Entity Recognition</i>	
Roman Klinger and Christoph M. Friedrich	192
<i>Semi-Supervised Learning for Word Sense Disambiguation: Quality vs. Quantity</i>	
Sandra Kübler and Desislava Zhekova	197
<i>Treelex Meets Adjectival Tables</i>	
Anna Kupść	203
<i>Integrating WordNet and FrameNet using a Knowledge-based Word Sense Disambiguation Algorithm</i>	
Egoitz Laparra and German Rigau	208
<i>Sampling-based Multilingual Alignment</i>	
Adrien Lardilleux and Yves Lepage	214
<i>Using Semantic Networks to Identify Temporal Expressions from Semantic Roles</i>	
Hector Llorens, Borja Navarro and Estela Saquete	219
<i>The Design of an Experiment in Anaphora Resolution for Referring Expressions Generation</i>	
Diego Jesus de Lucena and Ivandr� Paraboni	225
<i>A Model for the Cross-Modal Influence of Visual Context upon Language Processing</i>	
Patrick McCrae	230
<i>Bimodal Corpora Terminology Extraction: Another Brick in the Wall</i>	
Claudiu Mih�il� and Dalila Mekhaldi	236
<i>Exploiting Latent Semantic Relations in Highly Linked Hypertext for Information Retrieval in Wikis</i>	
Tristan Miller, Bertin Klein and Elisabeth Wolf	241
<i>Large Vocabulary Continuous Speech Recognition for Bulgarian</i>	
Petar Mitankin, Stoyan Mihov and Tinko Tinchev	246
<i>Diacritization for Real-World Arabic Texts</i>	
Emad Mohamed and Sandra K�bler	251
<i>Multi-entity Sentiment Scoring</i>	
Karo Moilanen and Stephen Pulman	258
<i>A Morphological and Syntactic Wide-coverage Lexicon for Spanish: The Leffe</i>	
Miguel A. Molinero, Beno�t Sagot and Lionel Nicolas	264
<i>How Limited is the Limit?</i>	
Prakash Mondal	270
<i>Dependency Parsing and Semantic Role Labeling as a Single Task</i>	
Roser Morante, Vincent Van Asch and Antal van den Bosch	275
<i>Structured Output Learning with Polynomial Kernel</i>	
Hajime Morita, Hiroya Takamura and Manabu Okumura	281
<i>Unsupervised Word Sense Induction from Multiple Semantic Spaces with Locality Sensitive Hashing</i>	
Claire Mouton, Guillaume Pitel, Ga�l de Chalendar and Anne Vilnat	287
<i>Unsupervised Extraction of False Friends from Parallel Bi-Texts Using the Web as a Corpus</i>	
Svetlin Nakov, Preslav Nakov and Elena Paskaleva	292

<i>Evaluating Term Extraction</i>	
Adeline Nazarenko and Haïfa Zargayouna	299
<i>Question Answering over Structured Data: an Entailment-Based Approach to Question Analysis</i>	
Matteo Negri and Milen Kouylekov	305
<i>A Semi-supervised Approach for Generating a Table-of-Contents</i>	
Viet Cuong Nguyen, Le Minh Nguyen and Akira Shimazu	312
<i>Towards Efficient Production of Linguistic Resources: the Victoria Project</i>	
Lionel Nicolas, Miguel A. Molinero, Benoît Sagot, Elena Trigo, Éric De la Clergerie, Miguel Pardo, Jacques Farré and Joan Miquel Vergés	318
<i>A Classification-driven Approach to Document Planning</i>	
Rafael Oliveira, Eder Novais, Roberto Araujo and Ivandré Paraboni	324
<i>Interactive Machine Translation Based on Partial Statistical Phrase-based Alignments</i>	
Daniel Ortiz-Martínez, Ismael García-Varea and Francisco Casacuberta	330
<i>Topic Modeling of Research Fields: An Interdisciplinary Perspective</i>	
Michael Paul and Roxana Girju	337
<i>An Interaction Grammar of Interrogative and Relative Clauses in French</i>	
Guy Perrier	343
<i>Comparing Statistical Similarity Measures for Stylistic Multivariate Analysis</i>	
Marius Popescu and Liviu P. Dinu	349
<i>From Bag of Languages to Family Trees From Noisy Corpus</i>	
Taraka Rama and Anil Kumar Singh	355
<i>Language-Independent Sentiment Analysis Using Subjectivity and Positional Information</i>	
Veselin Raychev and Preslav Nakov	360
<i>All Words Unsupervised Semantic Category Labeling for Hindi</i>	
Siva Reddy, Abhilash Inumella, Rajeev Sangal and Soma Paul	365
<i>Sentiment Analysis of Figurative Language using a Word Sense Disambiguation Approach</i>	
Vassiliki Rentoumi, George Giannakopoulos, Vangelis Karkaletsis and George A. Vouros	370
<i>Global Evaluation of Random Indexing through Swedish Word Clustering Compared to the Peoples Dictionary of Synonyms</i>	
Magnus Rosell, Martin Hassel and Viggo Kann	376
<i>Identifying Semantic Relations in Context: Near-misses and Overlaps</i>	
Alla Rozovskaya and Roxana Girju	381
<i>Statistical Confidence Measures for Probabilistic Parsing</i>	
Ricardo Sánchez-Sáez, Joan-Andreu Sánchez and José Miguel Benedí Ruíz	388
<i>Exploring the Vector Space Model for Finding Verb Synonyms in Portuguese</i>	
Luís Sarmento, Paula Carvalho and Eugénio Oliveira	393
<i>A Unified Method for Extracting Simple and Multiword Verbs with Valence Information and Application for Hungarian</i>	
Bálint Sass	399

<i>Combining Lexical Resources for Contextual Synonym Expansion</i>	
Ravi Sinha and Rada Mihalcea	404
<i>String Distance-Based Stemming of the Highly Inflected Croatian Language</i>	
Jan Šnajder and Bojana Dalbelo Bašić	411
<i>Classification of Emotion Words in Russian and Romanian Languages</i>	
Marina Sokolova and Victoria Bobicev	416
<i>Classification of Opinions with Non-affective Adverbs and Adjectives</i>	
Marina Sokolova and Guy Lapalme	421
<i>Amharic Part-of-Speech Tagger for Factored Language Modeling</i>	
Martha Yifiru Tachbelie and Wolfgang Menzel	428
<i>Improving Unsegmented Statistical Dialogue Act Labelling</i>	
Vicent Tamarit, Carlos-D. Martínez-Hinarejos and José Miguel Benedí Ruíz	434
<i>Three Issues in Cross-Language Frame Information Transfer</i>	
Sara Tonelli and Emanuele Pianta	441
<i>A Study on Linking Wikipedia Categories to Wordnet Synsets using Text Similarity</i>	
Antonio Toral, Óscar Ferrández, Eneko Agirre and Rafael Muñoz	449
<i>Ontology Engineering and Knowledge Extraction for Cross-Lingual Retrieval</i>	
Jantine Trapman and Paola Monachesi	455
<i>A Method to Restrict the Blow-up of Hypotheses of a Non-disambiguated</i>	
Jernej Vičič, Petr Homola and Vladislav Kuboň	460
<i>Sources of Performance in CRF Transfer Training: a Business Name-tagging Case Study</i>	
Marc Vilain, Jonathan Huggins and Ben Wellner	465
<i>Extracting Synonyms from Dictionary Definitions</i>	
Tong Wang and Graeme Hirst	471
<i>Instance Sampling Methods for Pronoun Resolution</i>	
Holger Wunsch, Sandra Kübler and Rachael Cantrell	478
<i>Approximate Matching for Evaluating Keyphrase Extraction</i>	
Torsten Zesch and Iryna Gurevych	484
<i>Too Many Mammals: Improving the Diversity of Automatically Recognized Terms</i>	
Ziqi Zhang, Lei Xia, Mark A. Greenwood and José Iria	490