

Workshop on Graph-based Methods for Natural Language Processing 2010

(TextGraphs-5)

Held at ACL 2010

**Uppsala, Sweden
16 July 2010**

ISBN: 978-1-61738-822-4

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© (2010) 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

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>Graph-Based Clustering for Computational Linguistics: A Survey</i> Zheng Chen and Heng Ji	1
<i>Towards the Automatic Creation of a Wordnet from a Term-Based Lexical Network</i> Hugo Gonalo Oliveira and Paulo Gomes	10
<i>An Investigation on the Influence of Frequency on the Lexical Organization of Verbs</i> Daniel German, Aline Villavicencio and Maity Siqueira	19
<i>Robust and Efficient Page Rank for Word Sense Disambiguation</i> Diego De Cao, Roberto Basili, Matteo Luciani, Francesco Mesiano and Riccardo Rossi	24
<i>Hierarchical Spectral Partitioning of Bipartite Graphs to Cluster Dialects and Identify Distinguishing Features</i> Martijn Wieling and John Nerbonne	33
<i>A Character-Based Intersection Graph Approach to Linguistic Phylogeny</i> Jessica Enright	42
<i>Spectral Approaches to Learning in the Graph Domain</i> Edwin Hancock	47
<i>Cross-Lingual Comparison between Distributionally Determined Word Similarity Networks</i> Olof G�rnerup and Jussi Karlgren	48
<i>Co-Occurrence Cluster Features for Lexical Substitutions in Context</i> Chris Biemann	55
<i>Contextually-Mediated Semantic Similarity Graphs for Topic Segmentation</i> Geetu Ambwani and Anthony Davis	60
<i>MuLLinG: MultiLevel Linguistic Graphs for Knowledge Extraction</i> Vincent Archer	69
<i>Experiments with CST-Based Multidocument Summarization</i> Maria Lucia Castro Jorge and Thiago Pardo	74
<i>Distinguishing between Positive and Negative Opinions with Complex Network Features</i> Diego Raphael Amancio, Renato Fabbri, Osvaldo Novais Oliveira Jr., Maria das Graas Volpe Nunes and Luciano da Fontoura Costa	83
<i>Image and Collateral Text in Support of Auto-Annotation and Sentiment Analysis</i> Pamela Zontone, Giulia Boato, Jonathon Hare, Paul Lewis, Stefan Siersdorfer and Enrico Minack	88
<i>Aggregating Opinions: Explorations into Graphs and Media Content Analysis</i> Gabriele Tatzl and Christoph Waldhauser	93
<i>Eliminating Redundancy by Spectral Relaxation for Multi-Document Summarization</i> Fumiyo Fukumoto, Akina Sakai and Yoshimi Suzuki	98
<i>Computing Word Senses by Semantic Mirroring and Spectral Graph Partitioning</i> Martin Fagerlund, Magnus Merkel, Lars Eld�n and Lars Ahrenberg	103