

14th Conference on Computational Natural Language Learning 2010

(CoNLL 2010: Shared Task)

Co-Located with ACL 2010

**Uppsala, Sweden
15-16 July 2010**

ISBN: 978-1-61738-814-9

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>The CoNLL-2010 Shared Task: Learning to Detect Hedges and their Scope in Natural Language Text</i> Richárd Farkas, Veronika Vincze, György Móra, János Csirik and György Szarvas	1
<i>A Cascade Method for Detecting Hedges and their Scope in Natural Language Text</i> Buzhou Tang, Xiaolong Wang, Xuan Wang, Bo Yuan and Shixi Fan	13
<i>Detecting Speculative Language Using Syntactic Dependencies and Logistic Regression</i> Andreas Vlachos and Mark Craven	18
<i>A Hedgehop over a Max-Margin Framework Using Hedge Cues</i> Maria Georgescu	26
<i>Detecting Hedge Cues and their Scopes with Average Perceptron</i> Feng Ji, Xipeng Qiu and Xuanjing Huang	32
<i>Memory-Based Resolution of In-Sentence Scopes of Hedge Cues</i> Roser Morante, Vincent Van Asch and Walter Daelemans	40
<i>Resolving Speculation: MaxEnt Cue Classification and Dependency-Based Scope Rules</i> Erik Velldal, Lilja Øvrelid and Stephan Oepen	48
<i>Combining Manual Rules and Supervised Learning for Hedge Cue and Scope Detection</i> Marek Rei and Ted Briscoe	56
<i>Hedge Detection Using the RelHunter Approach</i> Eraldo Fernandes, Carlos Crestana and Ruy Milidiú	64
<i>A High-Precision Approach to Detecting Hedges and their Scopes</i> Halil Kilicoglu and Sabine Bergler	70
<i>Exploiting Rich Features for Detecting Hedges and their Scope</i> Xinxin Li, Jianping Shen, Xiang Gao and Xuan Wang	78
<i>Uncertainty Detection as Approximate Max-Margin Sequence Labelling</i> Oscar Täckström, Sumithra Velupillai, Martin Hassel, Gunnar Eriksson, Hercules Dalianis and Jussi Karlgren	84
<i>Hedge Detection and Scope Finding by Sequence Labeling with Procedural Feature Selection</i> Shaodian Zhang, Hai Zhao, Guodong Zhou and Bao-liang Lu	92
<i>Learning to Detect Hedges and their Scope Using CRF</i> Qi Zhao, Chengjie Sun, Bingquan Liu and Yong Cheng	100
<i>Exploiting Multi-Features to Detect Hedges and their Scope in Biomedical Texts</i> Huiwei Zhou, Xiaoyan Li, Degen Huang, Zezhong Li and Yuansheng Yang	106
<i>A Lucene and Maximum Entropy Model Based Hedge Detection System</i> Lin Chen and Barbara Di Eugenio	114
<i>HedgeHunter: A System for Hedge Detection and Uncertainty Classification</i> David Clausen	120

<i>Exploiting CCG Structures with Tree Kernels for Speculation Detection</i>	
Liliana Mamani Sánchez, Baoli Li and Carl Vogel	126
<i>Uncertainty Learning Using SVMs and CRFs</i>	
Vinodkumar Prabhakaran	132
<i>Features for Detecting Hedge Cues</i>	
Nobuyuki Shimizu and Hiroshi Nakagawa	138
<i>A Simple Ensemble Method for Hedge Identification</i>	
Ferenc Szidarovszky, Illés Solt and Domonkos Tikk	144
<i>A Baseline Approach for Detecting Sentences Containing Uncertainty</i>	
Erik Tjong Kim Sang	148
<i>Hedge Classification with Syntactic Dependency Features Based on an Ensemble Classifier</i>	
Yi Zheng, Qifeng Dai, Qiming Luo and Enhong Chen	151