

ACL-PASCAL Workshop on Textual Entailment and Paraphrasing 2007

Held in conjunction with ACL 2007

**Prague, Czech Republic
28-29 June 2007**

ISBN: 978-1-61738-523-0

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© (2007) 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

<i>The Third PASCAL Recognizing Textual Entailment Challenge</i>	
Danilo Giampiccolo, Bernardo Magnini, Ido Dagan and Bill Dolan	1
<i>A Semantic Approach To Textual Entailment: System Evaluation and Task Analysis</i>	
Aljoscha Burchardt, Nils Reiter, Stefan Thater and Anette Frank	10
<i>Precision-focused Textual Inference</i>	
Daniel Bobrow, Dick Crouch, Tracy Halloway King, Cleo Condoravdi, Lauri Karttunen, Rowan Nairn, Valeria de Paiva and Annie Zaenen	16
<i>COGEX at RTE 3</i>	
Marta Tatu and Dan Moldovan	22
<i>A Corpus of Fine-Grained Entailment Relations</i>	
Rodney D. Nielsen and Wayne Ward	28
<i>Recognizing Textual Entailment Using Sentence Similarity based on Dependency Tree Skeletons</i>	
Rui Wang and Günter Neumann	36
<i>Learning Textual Entailment using SVMs and String Similarity Measures</i>	
Prodromos Malakasiotis and Ion Androutsopoulos	42
<i>Entailment and Anaphora Resolution in RTE3</i>	
Rodolfo Delmonte, Antonella Bristot, Marco Aldo Piccolino Boniforti and Sara Tonelli	48
<i>On the Role of Lexical and World Knowledge in RTE3</i>	
Peter Clark, Phil Harrison, John Thompson, William Murray, Jerry Hobbs and Christiane Fellbaum	54
<i>Machine Learning with Semantic-Based Distances Between Sentences for Textual Entailment</i>	
Daniel Ferrés and Horacio Rodríguez	60
<i>A Perspective-Based Approach for Solving Textual Entailment Recognition</i>	
Óscar Ferrández, Daniel Micol, Rafael Muñoz and Manuel Palomar	66
<i>Shallow Semantic in Fast Textual Entailment Rule Learners</i>	
Fabio Massimo Zanzotto, Marco Pennacchiotti and Alessandro Moschitti	72
<i>Combining Lexical-Syntactic Information with Machine Learning for Recognizing Textual Entailment</i>	
Arturo Montejo-Ráez, Jose Manuel Perea, Fernando Martínez-Santiago, Miguel Ángel García-Cumbreras, Maite Martín Valdivia and Alfonso Ureña-López	78
<i>Dependency-based paraphrasing for recognizing textual entailment</i>	
Erwin Marsi, Emiel Krahmer and Wauter Bosma	83

<i>Experiments of UNED at the Third Recognising Textual Entailment Challenge</i>	
Álvaro Rodrigo, Anselmo Peñas, Jesús Herrera and Felisa Verdejo	89
<i>Textual Entailment Using Univariate Density Model and Maximizing Discriminant Function</i>	
Scott Settembre	95
<i>The Role of Sentence Structure in Recognizing Textual Entailment</i>	
Catherine Blake	101
<i>Semantic and Logical Inference Model for Textual Entailment</i>	
Dan Roth and Mark Sammons	107
<i>SVO triple based Latent Semantic Analysis for recognising textual entailment</i>	
Gaston Burek, Christian Pietsch and Anne De Roeck	113
<i>Textual Entailment Through Extended Lexical Overlap and Lexico-Semantic Matching</i>	
Rod Adams, Gabriel Nicolae, Cristina Nicolae and Sanda Harabagiu	119
<i>Hypothesis Transformation and Semantic Variability Rules Used in Recognizing Textual Entailment</i>	
Adrian Iftene and Alexandra Balahur-Dobrescu	125
<i>Semantic Inference at the Lexical-Syntactic Level for Textual Entailment Recognition</i>	
Roy Bar-Haim, Ido Dagan, Iddo Greental, Idan Szpektor and Moshe Friedman	131
<i>An Extensible Probabilistic Transformation-based Approach to the Third Recognizing Textual Entailment Challenge</i>	
Stefan Harmeling	137
<i>Mutaphrase: Paraphrasing with FrameNet</i>	
Michael Ellsworth and Adam Janin	143
<i>A Compositional Approach toward Dynamic Phrasal Thesaurus</i>	
Atsushi Fujita, Shuhei Kato, Naoki Kato and Satoshi Sato	151
<i>Machine Learning Based Semantic Inference: Experiments and Observations at RTE-3</i>	
Baoli Li, Joseph Irwin, Ernest V. Garcia and Ashwin Ram	159
<i>Learning Alignments and Leveraging Natural Logic</i>	
Nathanael Chambers, Daniel Cer, Trond Grenager, David Hall, Chloe Kiddon, Bill MacCartney, Marie-Catherine de Marneffe, Daniel Ramage, Eric Yeh and Christopher D. Manning	165
<i>A Discourse Commitment-Based Framework for Recognizing Textual Entailment</i>	
Andrew Hickl and Jeremy Bensley	171
<i>Biology Based Alignments of Paraphrases for Sentence Compression</i>	
João Cordeiro, Gaël Dias and Guillaume Cleuziou	177
<i>A first order semantic approach to adjectival inference</i>	
Marilisa Amoia and Claire Gardent	185

Natural Logic for Textual Inference

Bill MacCartney and Christopher D. Manning..... 193