

## Roi Reichart

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- CONTACT INFORMATION Interdisciplinary Center for Neural Computation (ICNC) *roiri@cs.huji.ac.il*  
and School of Computer Science and Engineering, *www.cs.huji.ac.il/~roiri*  
The Hebrew University in Jerusalem, *Tel: 972-2-658-5297*  
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Givat Ram
- RESEARCH INTERESTS Natural Language Processing, Machine Learning, Semi-Supervised Learning, Unsupervised Learning.
- EDUCATION
- The Hebrew University of Jerusalem.**  
PhD, The Interdisciplinary Center for Neural Computation (ICNC).  
Advisor: Professor Ari Rappoport (Computer Science).  
Thesis title: Semi-Supervised Learning of Natural Language.
- The Hebrew University of Jerusalem.**  
MSc, The Interdisciplinary Center for Neural Computation (ICNC).  
6/2009 (part of direct PhD program). Average Grade: 95.
- The Open University of Israel.**  
BA in Computer Science 9/1999 – 12/2003. Average Grade: 92.
- AWARDS AND SCHOLARSHIPS
- The D.N Chorafas award** for a PhD dissertation in the applied sciences for researchers under the age of 30.
- The Thirteenth Conference on Computational Natural Language Learning (CoNLL 2009). **Best paper award** for the paper: Sample Selection for Statistical Parsers: Cognitively Driven Algorithms and Evaluation Measures. (together with Ari Rappoport).
- The Golda Meir foundation scholarship** for PhD students (2008).
- The Hebrew University of Jerusalem: **The Rector scholarship** for outstanding PhD students (2007 – 2009).
- PhD scholarship** of the Interdisciplinary Center for Neural Computation (ICNC), The Hebrew University of Jerusalem (2005 – 2009).
- The Open University of Israel, **president prize and the Wolf foundation scholarship** (2000).
- PUBLICATIONS
- Publications include 6 papers in ACL (2007 – 2010), 6 papers in CoNLL (2009 – 2010), 3 in COLING (2008 and 2010) and 2 papers in EMNLP 2010.

**Improved Fully Unsupervised Parsing with Zoomed Learning.**

Roi Reichart and Ari Rappoport.

*Empirical Methods on Natural Language Processing.* EMNLP 2010.

**Tense Sense Disambiguation: a New Syntactic Polysemy Task.**

Roi Reichart and Ari Rappoport.

*Empirical Methods on Natural Language Processing.* EMNLP 2010.

**A Multi-Domain Web-Based Algorithm for POS Tagging of Unknown Words.**

Shulamit Umansky-Pesin, Roi Reichart and Ari Rappoport.

*International Conference on Computational Linguistics.* COLING 2010.

**Type Level Clustering Evaluation: New Measures and a POS Induction Case Study.**

Roi Reichart, Omri Abend and Ari Rappoport.

*Conference on Computational Natural Language Learning.* CoNLL 2010.

**Improved Unsupervised POS Induction Using Intrinsic Clustering Quality and a Zipfian Constraint.**

Roi Reichart, Raanan Fattal and Ari Rappoport.

*Conference on Computational Natural Language Learning.* CoNLL 2010.

**Improved Unsupervised POS Induction through Prototype Discovery.**

Omri Abend, Roi Reichart and Ari Rappoport.

*Association for Computational Linguistics.* ACL 2010.

**Sample Selection for Statistical Parsers: Cognitively Driven Algorithms and Evaluation Measures.**

Roi Reichart and Ari Rappoport.

*Conference on Computational Natural Language Learning.* CoNLL 2009.

**Received Best Paper Award.**

**The NVI Clustering Evaluation Measure.**

Roi Reichart and Ari Rappoport.

*Conference on Computational Natural Language Learning.* CoNLL 2009.

**Automatic Selection of High Quality Parses Created by a Fully Unsupervised Parser.**

Roi Reichart and Ari Rappoport.

*Conference on Computational Natural Language Learning.* CoNLL 2009.

**Superior and Efficient Fully Unsupervised Pattern-based Concept Acquisition Using an Unsupervised Parser.**

Dmitry Davidov, Roi Reichart and Ari Rappoport.

*Conference on Computational Natural Language Learning.* CoNLL 2009.

**Unsupervised Argument Identification for Semantic Role Labeling.**

Omri Abend, Roi Reichart and Ari Rappoport.

*Association for Computational Linguistics.* ACL 2009.

**Multi-Task Active Learning for Linguistic Annotations.**

Roi Reichart, Katrin Tomanek, Udo Hahn and Ari Rappoport.  
*Association for Computational Linguistics. ACL 2008.*

**Extraction of Entailed Semantic Relations Through Syntax-Based Comma Resolution.**

Vivek Sirkumar, Mark Sammons, Roi Reichart, Ari Rappoport and Dan Roth.  
*Association for Computational Linguistics. ACL 2008.*

**Unsupervised Induction of Labeled Parse Trees by Clustering with Syntactic Features.**

Roi Reichart and Ari Rappoport.  
*International Conference on Computational Linguistics. COLING 2008.*

**A Supervised Algorithm for Verb Disambiguation into VerbNet Classes.**

Omri Abend, Roi Reichart and Ari Rappoport.  
*International Conference on Computational Linguistics. COLING 2008.*

**Self-Training for Enhancement and Domain Adaptation of Statistical Parsers Trained on Small Datasets.**

Roi Reichart and Ari Rappoport.  
*Association for Computational Linguistics. ACL 2007.*

**An Ensemble Method for Selection of High Quality Parses.**

Roi Reichart and Ari Rappoport.  
*Association for Computational Linguistics. ACL 2007.*

PROFESSIONAL  
ACTIVITIES

**Reviewer/Program Committee Member**

Conference on Computational Natural Language Learning. CoNLL. 2010.  
North American Association for Computational Linguistics. NAACL. 2010.  
Empirical Methods in Natural Language Processing. EMNLP. 2009.  
International Conference on Computational Linguistics. COLING. 2008.

TEACHING

**Introduction To Artificial Intelligence, 67842.** Hebrew University, 2009.

Teaching Assistant. This is an introductory course which covers broad topics in artificial intelligence: logic, search algorithms, game theory and machine learning.

**Theory of Neural Networks I, 76908.** Hebrew University, 2006-2010.

Grader. The course covers the foundations of learning in neural networks.

INDUSTRY  
EXPERIENCE

**National Institute for Testing and Evaluation**, since 9/2009:  
Natural Language Processing expert.

**MABAT, Israel Aerospace Industry (IAI)**, 7/2002 - 10/2003:  
Software engineer and algorithm developer.

NATURAL  
LANGUAGES

**Hebrew.** Native Fluency.

**English.** Fluent in reading, writing and speaking.