

ACL 2010

**LAW IV**

**Fourth Linguistic Annotation Workshop**

**Proceedings of the Workshop**

15-16 July 2010  
Uppsala University  
Uppsala, Sweden

Production and Manufacturing by  
*Taberg Media Group AB*  
*Box 94, 562 02 Taberg*  
*Sweden*

©2010 The Association for Computational Linguistics

Order copies of this and other ACL proceedings from:

Association for Computational Linguistics (ACL)  
209 N. Eighth Street  
Stroudsburg, PA 18360  
USA  
Tel: +1-570-476-8006  
Fax: +1-570-476-0860  
[acl@aclweb.org](mailto:acl@aclweb.org)

ISBN 978-1-932432-72-5 / 1-932432-72-8

## Introduction

The Linguistic Annotation Workshop (The LAW) provides a forum to facilitate the exchange and propagation of research results concerned with the annotation, manipulation, and exploitation of corpora; work towards the harmonization and interoperability from the perspective of the increasingly large number of tools and frameworks for annotated language resources; and work towards a consensus on all issues crucial to the advancement of the field of corpus annotation. Although this year's LAW is officially the fourth edition, LAW itself is the convergence of several previous workshops—including NLPXML, FLAC, LINC, and Frontiers in Corpus Annotation—dating back to the first NLPXML in 2001. This series of workshops attests to the rapid developments in the creation and use of annotated data in both language technology and empirical approaches to linguistic studies over the past 10 years.

The response to this year's Call for Papers was enthusiastic: 60 submissions were received. After careful review, the program committee accepted 20 long papers and 24 posters. Selection of the papers was not an easy task, as the papers cover the full range of linguistic facts and their corresponding annotation frameworks, from predicate-argument to discourse structure, speech to social networks, and learner corpus to CVs. The papers also deal with a range of annotation levels, from the macro perspective on infrastructure for international collaboration and interoperability, to the micro perspective on tools to deal with inter-annotator inconsistencies. It is this richness of the topics that attest to the growing maturity of field. We would like to thank SIGANN for its continuing endorsement of the LAW workshops, as well as the support and comments from the ACL-IJCNLP 2009 workshop committee chairs: Pushpak Bhattacharyya and David Weir. We would also like to thank the ACL publication chairs Jing-Shin Chang and Philipp Koehn for their help in producing the LAW IV proceedings. Most of all, we would like to thank all our program committee members and reviewers for their dedication and helpful review comments. Without them, LAW IV could not be implemented successfully.

Nianwen Xue and Massimo Poesio, Program Committee Co-chairs

Nancy Ide and Adam Meyers, Organizers



**Organizers:**

Nancy Ide (Vassar College)  
Adam Meyers (New York University)  
Chu-Ren Huang (The Hong Kong Polytechnic University)  
Antonio Pareja-Lora (SIC, UCM / OEG, UPM)  
Sameer Pradhan (BBN Technologies)  
Manfred Stede (Universität Potsdam)  
Nianwen Xue (Brandeis University)

**Program Committee:**

## Program Co-chairs:

Nianwen Xue (Brandeis University)  
Massimo Poesio (University of Trento)

## Members:

Nicoletta Calzolari (ILC/CNR)  
Steve Cassidy (Macquarie University)  
Tomaz Erjavec (Josef Stefan Institute)  
Katrín Erk (University of Texas at Austin)  
Alex Chengyu Fang (City University of Hong Kong)  
Christiane Fellbaum (Princeton University)  
Chu-Ren Huang (The Hong Kong Polytechnic University)  
Nancy Ide (Vassar College)  
Richard Johansson (University of Trento)  
Aravind Joshi (University of Pennsylvania)  
Sandra Kübler (Indiana University)  
Seth Kulick (University of Pennsylvania)  
Adam Meyers (New York University)  
Olga Babko-Malaya (BAE Systems)  
Eleni Miltsakaki (University of Pennsylvania)  
Antonio Pareja-Lora (SIC, UCM / OEG, UPM)  
Martha Palmer (University of Colorado)  
Rebecca J. Passonneau (Columbia University)  
Marta Recasens Potau (Universitat de Barcelona)  
Sameer Pradhan (BBN Technologies)  
Rashmi Prasad (University of Pennsylvania)  
Arndt Riestler (IMS Universität Stuttgart)  
James Pustejovsky (Brandeis University)  
Kepa Rodriguez (University of Trento)  
Anna Rumshisky (Brandeis University)  
Manfred Stede (Universität Potsdam)

Marc Verhagen (Brandeis University)  
Theresa Wilson (University of Edinburgh)  
Andreas Witt (Universität Tübingen)  
Anja Nedoluzhko (Charles University)

## Table of Contents

<i>EmotiBlog: A Finer-Grained and More Precise Learning of Subjectivity Expression Models</i> Ester Boldrini, Alexandra Balahur, Patricio Martínez-Barco and Andrés Montoyo .....	1
<i>Error-Tagged Learner Corpus of Czech</i> Jirka Hana, Alexandr Rosen, Svatava Škodová and Barbora Štindlová .....	11
<i>Annotation Scheme for Social Network Extraction from Text</i> Apoorv Agarwal, Owen C. Rambow and Rebecca J. Passonneau .....	20
<i>Agile Corpus Annotation in Practice: An Overview of Manual and Automatic Annotation of CVs</i> Bea Alex, Claire Grover, Rongzhou Shen and Mijail Kabadjov .....	29
<i>Consistency Checking for Treebank Alignment</i> Markus Dickinson and Yvonne Samuelsson .....	38
<i>Anveshan: A Framework for Analysis of Multiple Annotators' Labeling Behavior</i> Vikas Bhardwaj, Rebecca Passonneau, Ansaf Salleb-Aouissi and Nancy Ide .....	47
<i>Influence of Pre-Annotation on POS-Tagged Corpus Development</i> Karèn Fort and Benoît Sagot .....	56
<i>To Annotate More Accurately or to Annotate More</i> Dmitriy Dligach, Rodney Nielsen and Martha Palmer .....	64
<i>Annotating Underquantification</i> Aurelie Herbelot and Ann Copestake .....	73
<i>PropBank Annotation of Multilingual Light Verb Constructions</i> Jena D. Hwang, Archana Bhatia, Claire Bonial, Aous Mansouri, Ashwini Vaidya, Nianwen Xue and Martha Palmer .....	82
<i>Retrieving Correct Semantic Boundaries in Dependency Structure</i> Jinho Choi and Martha Palmer .....	91
<i>Complex Predicates Annotation in a Corpus of Portuguese</i> Iris Hendrickx, Amália Mendes, Sílvia Pereira, Anabela Gonçalves and Inês Duarte .....	100
<i>Using an Online Tool for the Documentation of Edo Language</i> Ota Ogie .....	109
<i>Cross-Lingual Validity of PropBank in the Manual Annotation of French</i> Lonneke van der Plas, Tanja Samardzic and Paola Merlo .....	113
<i>Characteristics of High Agreement Affect Annotation in Text</i> Cecilia Ovesdotter Alm .....	118
<i>The Deep Re-Annotation in a Chinese Scientific Treebank</i> Kun Yu, Xiangli Wang, Yusuke Miyao, Takuya Matsuzaki and Junichi Tsujii .....	123
<i>The Unified Annotation of Syntax and Discourse in the Copenhagen Dependency Treebanks</i> Matthias Buch-Kromann and Iørn Korzen .....	127

<i>Identifying Sources of Inter-Annotator Variation: Evaluating Two Models of Argument Analysis</i> Barbara White .....	132
<i>Dependency-Based PropBanking of Clinical Finnish</i> Katri Haverinen, Filip Ginter, Timo Viljanen, Veronika Laippala and Tapio Salakoski .....	137
<i>Building the Syntactic Reference Corpus of Medieval French Using NotaBene RDF Annotation Tool</i> Nicolas Mazziotta .....	142
<i>Chunking German: An Unsolved Problem</i> Sandra Kübler, Kathrin Beck, Erhard Hinrichs and Heike Telljohann .....	147
<i>Proposal for MWE Annotation in Running Text</i> Iris Hendrickx, Amália Mendes and Sandra Antunes .....	152
<i>A Feature Type Classification for Therapeutic Purposes: A Preliminary Evaluation with Non-Expert Speakers</i> Gianluca E. Lebani and Emanuele Pianta .....	157
<i>Annotating Korean Demonstratives</i> Sun-Hee Lee and Jae-young Song .....	162
<i>Creating and Exploiting a Resource of Parallel Parses</i> Christian Chiarcos, Kerstin Eckart and Julia Ritz .....	166
<i>From Descriptive Annotation to Grammar Specification</i> Lars Hellan .....	172
<i>An Annotation Schema for Preposition Senses in German</i> Antje Müller, Olaf Hülscher, Claudia Roch, Katja Keßelmeier, Tobias Stadtfeld, Jan Strunk and Tibor Kiss .....	177
<i>OTTO: A Transcription and Management Tool for Historical Texts</i> Stefanie Dipper, Lara Kresse, Martin Schnurrenberger and Seong-Eun Cho .....	182
<i>Multimodal Annotation of Conversational Data</i> Philippe Blache, Roxane Bertrand, Emmanuel Bruno, Brigitte Bigi, Robert Espesser, Gaelle Ferre, Mathilde Guardiola, Daniel Hirst, Ning Tan, Edlira Cela, Jean-Claude Martin, Stéphane Rauzy, Mary-Annick Morel, Elisabeth Murisasco and Irina Nesterenko .....	186
<i>Combining Parallel Treebanks and Geo-Tagging</i> Martin Volk, Anne Goehring and Torsten Marek .....	192
<i>Challenges of Cheap Resource Creation</i> Jirka Hana and Anna Feldman .....	197
<i>Discourse Relation Configurations in Turkish and an Annotation Environment</i> Berfin Aktaş, Cem Bozşahin and Deniz Zeyrek .....	202
<i>An Overview of the CRAFT Concept Annotation Guidelines</i> Michael Bada, Miriam Eckert, Martha Palmer and Lawrence Hunter .....	207
<i>Syntactic Tree Queries in Prolog</i> Gerlof Bouma .....	212

<i>An Integrated Tool for Annotating Historical Corpora</i>	
Pablo Picasso Feliciano de Faria, Fabio Natanael Kepler and Maria Clara Paixão de Sousa . . . .	217
<i>The Revised Arabic PropBank</i>	
Wajdi Zaghouani, Mona Diab, Aous Mansouri, Sameer Pradhan and Martha Palmer . . . . .	222
<i>PackPlay: Mining Semantic Data in Collaborative Games</i>	
Nathan Green, Paul Breimyer, Vinay Kumar and Nagiza Samatova . . . . .	227
<i>A Proposal for a Configurable Silver Standard</i>	
Udo Hahn, Katrin Tomanek, Elena Beisswanger and Erik Faessler . . . . .	235
<i>A Hybrid Model for Annotating Named Entity Training Corpora</i>	
Robert Voyer, Valerie Nygaard, Will Fitzgerald and Hannah Copperman . . . . .	243
<i>Anatomy of Annotation Schemes: Mapping to GrAF</i>	
Nancy Ide and Harry Bunt . . . . .	247
<i>Annotating Participant Reference in English Spoken Conversation</i>	
John Niekrasz and Johanna Moore . . . . .	256
<i>Design and Evaluation of Shared Prosodic Annotation for Spontaneous French Speech: From Expert Knowledge to Non-Expert Annotation</i>	
Anne Lacheret-Dujour, Nicolas Obin and Mathieu Avanzi . . . . .	265
<i>Depends on What the French Say - Spoken Corpus Annotation with and beyond Syntactic Functions</i>	
José Deulofeu, Lucie Duffort, Kim Gerdes, Sylvain Kahane and Paola Pietrandrea . . . . .	274
<i>The Annotation Scheme of the Turkish Discourse Bank and an Evaluation of Inconsistent Annotations</i>	
Deniz Zeyrek, Işin Demirşahin, Ayişiği Sevdik-Çalli, Hale Ögel Balaban, and Ümit Deniz Turan	282



# Conference Program

**Thursday, July 15, 2010**

**08:40–08:50** Opening remarks

08:50–10:30 Session I (Chair: Nianwen Xue)

08:50–09:15 *EmotiBlog: A Finer-Grained and More Precise Learning of Subjectivity Expression Models*

Ester Boldrini, Alexandra Balahur, Patricio Martínez-Barco and Andrés Montoyo

09:15–09:40 *Error-Tagged Learner Corpus of Czech*

Jirka Hana, Alexandr Rosen, Svatava Škodová and Barbora Štindlová

09:40–10:05 *Annotation Scheme for Social Network Extraction from Text*

Apoorv Agarwal, Owen C. Rambow and Rebecca J. Passonneau

10:05–10:30 *Agile Corpus Annotation in Practice: An Overview of Manual and Automatic Annotation of CVs*

Bea Alex, Claire Grover, Rongzhou Shen and Mijail Kabadjov

10:30–11:00 Break

11:00–12:40 Session II (Chair: Martha Palmer)

11:00–11:25 *Consistency Checking for Treebank Alignment*

Markus Dickinson and Yvonne Samuelsson

11:25–11:50 *Anveshan: A Framework for Analysis of Multiple Annotators' Labeling Behavior*

Vikas Bhardwaj, Rebecca Passonneau, Ansaf Salieb-Aouissi and Nancy Ide

11:50–12:15 *Influence of Pre-Annotation on POS-Tagged Corpus Development*

Karën Fort and Benoît Sagot

12:15–12:40 *To Annotate More Accurately or to Annotate More*

Dmitriy Dligach, Rodney Nielsen and Martha Palmer

12:40–13:50 Lunch

**Thursday, July 15, 2010 (continued)**

13:50–15:30 Session III (Chair: Manfred Stede)

13:50–14:15 *Annotating Underquantification*  
Aurelie Herbelot and Ann Copestake

14:15–14:40 *PropBank Annotation of Multilingual Light Verb Constructions*  
Jena D. Hwang, Archana Bhatia, Claire Bonial, Aous Mansouri, Ashwini Vaidya, Nianwen Xue and Martha Palmer

14:40–15:05 *Retrieving Correct Semantic Boundaries in Dependency Structure*  
Jinho Choi and Martha Palmer

15:05–15:30 *Complex Predicates Annotation in a Corpus of Portuguese*  
Iris Hendrickx, Amália Mendes, Sílvia Pereira, Anabela Gonçalves and Inês Duarte

15:30–16:00 Break

16:00–17:30 Poster session (Chair: Nianwen Xue)

*Using an Online Tool for the Documentation of Edo Language*  
Ota Ogie

*Cross-Lingual Validity of PropBank in the Manual Annotation of French*  
Lonneke van der Plas, Tanja Samardzic and Paola Merlo

*Characteristics of High Agreement Affect Annotation in Text*  
Cecilia Ovesdotter Alm

*The Deep Re-Annotation in a Chinese Scientific Treebank*  
Kun Yu, Xiangli Wang, Yusuke Miyao, Takuya Matsuzaki and Junichi Tsujii

*The Unified Annotation of Syntax and Discourse in the Copenhagen Dependency Treebanks*  
Matthias Buch-Kromann and Iørn Korzen

*Identifying Sources of Inter-Annotator Variation: Evaluating Two Models of Argument Analysis*  
Barbara White

**Thursday, July 15, 2010 (continued)**

*Dependency-Based PropBanking of Clinical Finnish*

Katri Haverinen, Filip Ginter, Timo Viljanen, Veronika Laippala and Tapio Salakoski

*Building the Syntactic Reference Corpus of Medieval French Using NotaBene RDF Annotation Tool*

Nicolas Mazziotta

*Chunking German: An Unsolved Problem*

Sandra Kübler, Kathrin Beck, Erhard Hinrichs and Heike Telljohann

*Proposal for MWE Annotation in Running Text*

Iris Hendrickx, Amália Mendes and Sandra Antunes

*A Feature Type Classification for Therapeutic Purposes: A Preliminary Evaluation with Non-Expert Speakers*

Gianluca E. Leboni and Emanuele Pianta

*Annotating Korean Demonstratives*

Sun-Hee Lee and Jae-young Song

*Creating and Exploiting a Resource of Parallel Parses*

Christian Chiacos, Kerstin Eckart and Julia Ritz

*From Descriptive Annotation to Grammar Specification*

Lars Hellan

*An Annotation Schema for Preposition Senses in German*

Antje Müller, Olaf Hülscher, Claudia Roch, Katja Keßelmeier, Tobias Stadtfeld, Jan Strunk and Tibor Kiss

*OTTO: A Transcription and Management Tool for Historical Texts*

Stefanie Dipper, Lara Kresse, Martin Schnurrenberger and Seong-Eun Cho

*Multimodal Annotation of Conversational Data*

Philippe Blache, Roxane Bertrand, Emmanuel Bruno, Brigitte Bigi, Robert Espesser, Gaele Ferre, Mathilde Guardiola, Daniel Hirst, Ning Tan, Edlira Cela, Jean-Claude Martin, Stéphane Rauzy, Mary-Annick Morel, Elisabeth Murisasco and Irina Nesterenko

*Combining Parallel Treebanks and Geo-Tagging*

Martin Volk, Anne Goehring and Torsten Marek

**Thursday, July 15, 2010 (continued)**

*Challenges of Cheap Resource Creation*

Jirka Hana and Anna Feldman

*Discourse Relation Configurations in Turkish and an Annotation Environment*

Berfin Aktaş, Cem Bozşahin and Deniz Zeyrek

*An Overview of the CRAFT Concept Annotation Guidelines*

Michael Bada, Miriam Eckert, Martha Palmer and Lawrence Hunter

*Syntactic Tree Queries in Prolog*

Gerlof Bouma

*An Integrated Tool for Annotating Historical Corpora*

Pablo Picasso Feliciano de Faria, Fabio Natanael Kepler and Maria Clara Paixão de Sousa

*The Revised Arabic PropBank*

Wajdi Zaghrouani, Mona Diab, Aous Mansouri, Sameer Pradhan and Martha Palmer

**Friday, July 16, 2010**

08:50–10:30 Session IV (Chair: Massimo Poesio)

08:50–09:15 *PackPlay: Mining Semantic Data in Collaborative Games*

Nathan Green, Paul Breimyer, Vinay Kumar and Nagiza Samatova

09:15–09:40 *A Proposal for a Configurable Silver Standard*

Udo Hahn, Katrin Tomanek, Elena Beisswanger and Erik Faessler

09:40–10:05 *A Hybrid Model for Annotating Named Entity Training Corpora*

Robert Voyer, Valerie Nygaard, Will Fitzgerald and Hannah Copperman

10:05–10:30 *Anatomy of Annotation Schemes: Mapping to GrAF*

Nancy Ide and Harry Bunt

10:30–11:00 Break

**Friday, July 16, 2010 (continued)**

11:00–12:40 Session V (Chair: Nancy Ide)

11:00–11:25 *Annotating Participant Reference in English Spoken Conversation*  
John Niekrasz and Johanna Moore

11:25–11:50 *Design and Evaluation of Shared Prosodic Annotation for Spontaneous French Speech: From Expert Knowledge to Non-Expert Annotation*  
Anne Lacheret-Dujour, Nicolas Obin and Mathieu Avanzi

11:50–12:15 *Depends on What the French Say - Spoken Corpus Annotation with and beyond Syntactic Functions*  
José Deulofeu, Lucie Duffort, Kim Gerdes, Sylvain Kahane and Paola Pietrandrea

12:15–12:40 *The Annotation Scheme of the Turkish Discourse Bank and an Evaluation of Inconsistent Annotations*  
Deniz Zeyrek, Işin Demirşahin, Ayişiği Sevdik-Çalli, Hale Ögel Balaban, and Ümit Deniz Turan

12:40–13:00 Closing remarks

