

ACL HLT 2011

**Workshop on Relational Models of Semantics
RELMS 2011**

Proceedings of the Workshop

23 June, 2011
Portland, Oregon, USA

Production and Manufacturing by
Omnipress, Inc.
2600 Anderson Street
Madison, WI 53704 USA

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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

ISBN 978-1-932432-98-5

Preface

The ACL 2011 Workshop on *Relational Models of Semantics* (RELMS 2011) took place on June 23, 2011 in Portland, Oregon, USA, immediately following the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies (ACL 2011).

We had envisioned the workshop as a meeting place for those concerned with a view of semantics deeper than what a word or a collocation carry in text. A non-trivial text describes relations among the entities and events to which it refers. While models of meaning which focus on the lexical stratum are undoubtedly important, it is relations that bind individual pieces together.

The modelling of semantic relations has taken a variety of forms in natural language processing. Ontology learning and information extraction focus on learning “encyclopedic” relations between entities in the domain of the discourse. Structured prediction tasks such as semantic role labelling or biomedical event extraction require reasoning about the relational content of a text: which entities and events mentioned are interrelated. The interpretation of compound nouns – in the presence of little contextual knowledge – benefits from recognizing probable and plausible relations between two entities. And so on.

Reality seldom lives up to expectations, so we have been fortunate to receive a number of good submissions. The participants found out how rich language resources can advance the cause of deep semantic analysis (the invited talk by Martha Palmer and the paper by Coyne et al.) and how such resources can be built up (Ayşe et al. and Bonial et al.). They further heard about discovering elements implicit in texts (Tonelli and Delmonte, Gerber and Chai). There were also papers on classifying relations (Choi, Palmer and Jamison), on information extraction (Surdeanu et al.) and even on the connection between relations and sentiment (Kolya et al.). We thank the Authors for letting us put together such an interestingly varied program.

The success of the workshop was only possible with the support of all of the authors who submitted their papers for review and then presented them, the program committee members who constructively assessed the submissions, the invited speaker (Martha Palmer) and the panelists (Timothy Baldwin, Eduard Hovy, Saif Mohammad, and Sebastian Riedel) who shared their views on interesting topics, and the registered participants. We thank them all for their support for this workshop.

The RELMS 2011 co-organizers:

Su Nam Kim, Zornitsa Kozareva, Preslav Nakov, Diarmuid Ó Séaghdha, Sebastian Padó, and Stan Szpakowicz

Organization

The ACL 2011 Workshop on Relational Models of Semantics (RELMS 2011) was endorsed by SIGLEX: The Special Interest Group on the Lexicon of the Association for Computational Linguistics.

Organizers:

Su Nam Kim, The University of Melbourne, Australia
Zornitsa Kozareva, University of Southern California, USA
Preslav Nakov, National University of Singapore, Singapore
Diarmuid Ó Séaghdha, University of Cambridge, UK
Sebastian Padó, Universität Heidelberg, Germany
Stan Szpakowicz, University of Ottawa, Canada

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Deniz Yuret, Koç University, Turkey

Additional Reviewers:

Brian Davis, National University of Ireland, Galway, Ireland

Invited Speaker:

Martha Palmer, University of Colorado, USA

Panelists:

Timothy Baldwin, The University of Melbourne, Australia
Eduard Hovy, University of Southern California, USA
Saif Mohammad, National Research Council, Canada
Sebastian Riedel, University of Massachusetts, USA

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RELMS'2011 Workshop Program

Thursday: June 23, 2011

09:00-09:05 **Welcome**

09:05-10:30 **Session 1**

(09:05-10:05)

Invited Talk

Going Beyond Shallow Semantics

Martha Palmer, University of Colorado

(10:05-10:30)

Customizing an Information Extraction System to a New Domain

Mihai Surdeanu, David McClosky, Mason Smith, Andrey Gusev and Christopher Manning

10:30-11:00 Morning break

11:00-12:15 **Session 2**

(11:00-11:25)

Extraction of Semantic Word Relations in Turkish from Dictionary Definitions

Şerbetçi Ayşe, Orhan Zeynep and Pehlivan İlknur

(11:25-11:50)

Identifying Event – Sentiment Association using Lexical Equivalence and Co-reference Approaches

Anup Kolya, Dipankar Das, Asif Ekbal and Sivaji Bandyopadhyay

(11:50-12:15)

VigNet: Grounding Language in Graphics using Frame Semantics

Bob Coyne, Daniel Bauer and Owen Rambow

12:15-13:40 Lunch break

Thursday: June 23, 2011 (continued)

13:40-14:30 Session 3

(13:40-14:05)

Transition-based Semantic Role Labeling Using Predicate Argument Clustering

Jinho D. Choi and Martha Palmer

(14:05-14:30)

Using Grammar Rule Clusters for Semantic Relation Classification

Emily Jamison

14:30-15:30 Panel

- Timothy Baldwin, The University of Melbourne
- Eduard Hovy, University of Southern California
- Saif Mohammad, National Research Council Canada
- Sebastian Riedel, University of Massachusetts

15:30-16:00 Afternoon break

16:00-17:15 Session 4

(16:00-16:25)

Desperately Seeking Implicit Arguments in Text

Sara Tonelli and Rodolfo Delmonte

(16:25-16:50)

A Joint Model of Implicit Arguments for Nominal Predicates

Matthew Gerber, Joyce Chai and Robert Bart

(16:50-17:15)

Incorporating Coercive Constructions into a Verb Lexicon

Claire Bonial, Susan Windisch Brown, Jena D. Hwang, Christopher Parisien, Martha Palmer and Suzanne Stevenson

17:15-17:20 Closing remarks