



***SEM 2013: The Second Joint Conference on
Lexical and Computational Semantics**

**Volume 2:
Proceedings of the Seventh International Workshop
on Semantic Evaluation (SemEval 2013)**

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Introduction to *SEM 2013

Building on the momentum generated by the spectacular success of the Joint Conference on Lexical and Computational Semantics (*SEM) in 2012, bringing together the ACL SIGLEX and ACL SIGSEM communities, we are delighted to bring to you the second edition of the conference, as a top-tier showcase of the latest research in computational semantics. We accepted 14 papers (11 long and 3 short) for publication at the conference, out of a possible 45 submissions (a 31% acceptance rate). This is on par with some of the most competitive conferences in computational linguistics, and we are confident will set the stage for a scintillating conference.

This year, we started a tradition that we intend to maintain in all future iterations of the conference in integrating a shared task into the conference. The shared task was selected by an independent committee comprising members from SIGLEX and SIGSEM, based on an open call for proposals, and revolved around Semantic Textual Similarity (STS). The task turned out to be a huge success with 34 teams participating, submitting a total of 103 system runs.

*SEM 2013 features a number of highlight events:

Day One, June 13th:

- A timely and impressive panel on *Towards Deep Natural Language Understanding*, featuring the following panelists:
 - Kevin Knight (USC/Information Sciences Institute)
 - Chris Manning (Stanford University)
 - Martha Palmer (University of Colorado at Boulder)
 - Owen Rambow (Columbia University)
 - Dan Roth (University of Illinois at Urbana-Champaign)
- A Reception and Shared Task Poster Session in the evening, thanks to the generous sponsorship of the DARPA Deft program.

Day Two, June 14th:

- In the morning, a keynote address by David Forsyth from the Computer Science Department at the University of Illinois at Urbana Champagne on issues of Vision and Language. It promises to be an extremely stimulating speech, and is not to be missed.
- In the early afternoon, a panel on the relation between and future of *SEM, the *SEM Shared Task, SemEval and other events on computational semantics. In this panel, we will attempt to clarify and explain as well as devise plans for these different entities.
- Finally, at the end of the day, an award ceremony for the Best Long Paper and Best Short Paper.

As always, *SEM 2013 would not have been possible without the considerable efforts of our area chairs and an impressive assortment of reviewers, drawn from the ranks of SIGLEX and SIGSEM, and the computational semantics community at large. We would also like to acknowledge the generous support for the STS Task from the DARPA Deft Program.

We hope you enjoy *SEM 2013, and look forward to engaging with all of you,

Mona Diab (The George Washington University, General Chair)

Timothy Baldwin (The University of Mebourne, Program Committee Co-Chair)

Marco Baroni (University of Trento, Program Committee Co-Chair)

Introduction to SemEval

The Semantic Evaluation (SemEval) series of workshops focus on the evaluation and comparison of systems that can analyse diverse semantic phenomena in text with the aim of extending the current state-of-the-art in semantic analysis and creating high quality annotated datasets in a range of increasingly challenging problems in natural language semantics. SemEval provides an exciting forum for researchers to propose challenging research problems in semantics and to build systems/techniques to address such research problems.

SemEval-2013 is the seventh workshop in the series. The first three workshops, SensEval-1 (1998), SensEval-2 (2001), and SensEval-3 (2004), were focused on word sense disambiguation, each time growing in the number of languages offered in the tasks and in the number of participating teams. In 2007 the workshop was renamed SemEval and in the next three workshops SemEval-2007, SemEval-2010 and SemEval-2012 the nature of the tasks evolved to include semantic analysis tasks outside of word sense disambiguation. Starting in 2012 SemEval turned into a yearly event associated with *SEM.

This volume contains papers accepted for presentation at the SemEval-2013 International Workshop on Semantic Evaluation Exercises. SemEval-2013 is co-organized with the *SEM-2013 The Second Joint Conference on Lexical and Computational Semantics and co-located with The 2013 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL HLT).

SemEval-2013 included the following 12 tasks for evaluation:

- TempEval-3 Temporal Annotation
- Sentiment Analysis in Twitter
- Spatial Role Labeling
- Free Paraphrases of Noun Compounds
- Evaluating Phrasal Semantics
- The Joint Student Response Analysis and 8th Recognizing Textual Entailment Challenge
- Cross-lingual Textual Entailment for Content Synchronization
- Extraction of Drug-Drug Interactions from BioMedical Texts
- Cross-lingual Word Sense Disambiguation
- Evaluating Word Sense Induction & Disambiguation within An End-User Application
- Multilingual Word Sense Disambiguation
- Word Sense Induction for Graded and Non-Graded Senses

About 100 teams submitted more than 300 systems for the 12 tasks of SemEval-2013. This volume contains both Task Description papers that describe each of the above tasks and System Description papers that describe the systems that participated in the above tasks. A total of 12 task description papers and 101 system description papers are included in this volume.

We are indebted to all program committee members for their high quality, elaborate and thoughtful reviews. The papers in this proceedings have surely benefited from this feedback. We are grateful to *SEM 2013 and NAACL-HLT 2013 conference organizers for local organization and the forum. We most gratefully acknowledge the support of our sponsors, the ACL Special Interest Group on the Lexicon (SIGLEX) and the ACL Special Interest Group on Computational Semantics (SIGSEM).

Welcome to SemEval-2013!

Suresh Manandhar and Deniz Yuret

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Martha Palmer (University of Colorado at Boulder)

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Panelists for Shared *SEM/SemEval panel:

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Conference Program Summary

	*SEM Main Conference and STS Shared Task (International D)	SemEval (starting on Day 2 below)
Day 1: Thursday June 13th 2013		
08:00--08:45	Registration	
08:45--10:30	Opening Remarks and *SEM Long Papers 1	*SEM1
10:30--11:00	Coffee Break	
11:00--12:30	STS Shared Task 1	ST1
12:30--2:00	Lunch	
2:00--3:30	STS Shared Task 2 and STS Poster boosters	ST2
3:30--4:00	Coffee Break	
4:00-4:25	*SEM Short Papers 1	
4:30--6:00	*SEM Panel: Toward Deep Natural Language Understanding: Kevin Knight, Christopher Manning, Martha Palmer, Owen Rambow, and Dan Roth	*SEM2
6:30--8:30	*SEM Reception and STS Poster Session (PLN1)	

	*SEM Main Conference and STS Shared Task (International D)		SemEval (International E)	
Day 2: Friday June 14th 2013				
08:00--08:30	Registration			
08:30--09:30	*SEM Short Papers 2	*SEM3	SemEval Session 1	SE1
09:30--10:30	Keynote Address: David Forsyth (PLN2)			
10:30--11:00	Coffee Break			
11:00--12:30	*SEM Long Papers 2	*SEM4	SemEval Session 2	SE2
12:30--1:30	Lunch (ends earlier!)	Lunch + Poster Session 1 for Tasks 1, 5, 8		SP1
1:30--2:30	Joint Panel: Future of *SEM / STS Shared Task / SemEval (PLN3)			
2:30--3:30	*SEM Long Papers 3	*SEM5	SemEval Session 3	SE3
3:30--4:00	Coffee Break		Coffee + Poster Session 2 for Tasks 4, 10, 11, 12	SP2
4:00--4:30	*SEM Long Papers 4	*SEM6		
4:30--5:30	Best Papers Awards & Closing remarks	*SEM7	4:30--6:30 SemEval Session 4	SE4
5:30--6:00				
6:00--6:30				

			SemEval (International E)	
Day 3: Saturday June 15th 2013				
08:40--10:30			SemEval Session 5	SE5
10:30--11:00	Coffee Break			
11:00--1:10			SemEval Session 6	SE6
1:10-3:30			Lunch + Poster Session 3 for Tasks 2, 3, 7, 9, 13	SP3

Conference Program

Day 1: Thursday June 13, 2013

***SEM Main Conference and Shared Task Sessions (no SemEval on Day 1)**

**Session PLN1: (6:30–8:30) *SEM Opening Reception and STS Poster Session
(All SemEval attendees are invited)**

Day 2: Friday June 14, 2013

(08:00–08:30) Registration

Session SE1: (08:30–09:30) Session 1

08:30–08:40 Opening remarks

08:40–09:00 *SemEval-2013 Task 1: TempEval-3: Evaluating Time Expressions, Events, and Temporal Relations*

Naushad UzZaman, Hector Llorens, Leon Derczynski, James Allen, Marc Verhagen and James Pustejovsky

09:00–09:20 *ClearTK-TimeML: A minimalist approach to TempEval 2013*

Steven Bethard

09:20–09:30 *HeidelTime: Tuning English and Developing Spanish Resources for TempEval-3*

Jannik Strötgen, Julian Zell and Michael Gertz

Session PLN2: (09:30–10:30) Keynote address: David Forsyth

(10:30–11:00) Coffee Break

Session SE2: (11:00–12:30) Session 2

11:00–11:10 *ATT1: Temporal Annotation Using Big Windows and Rich Syntactic and Semantic Features*

Hyuckchul Jung and Amanda Stent

11:10–11:30 *SemEval-2013 Task 8: Cross-lingual Textual Entailment for Content Synchronization*

Matteo Negri, Alessandro Marchetti, Yashar Mehdad, Luisa Bentivogli and Danilo Giampiccolo

11:30–11:50 *SOFTCARDINALITY: Learning to Identify Directional Cross-Lingual Entailment from Cardinalities and SMT*

Sergio Jimenez, Claudia Becerra and Alexander Gelbukh

11:50–12:10 *SemEval-2013 Task 5: Evaluating Phrasal Semantics*

Ioannis Korkontzelos, Torsten Zesch, Fabio Massimo Zanzotto and Chris Biemann

Day 2: Friday June 14, 2013 (continued)

12:10–12:30 *HsH: Estimating Semantic Similarity of Words and Short Phrases with Frequency Normalized Distance Measures*

Christian Wartena

Session SP1: (12:30–13:30) Lunch Break + Poster Session 1 for Tasks 1, 5, 8

SemEval-2013 Task 1: TempEval-3: Evaluating Time Expressions, Events, and Temporal Relations

Naushad UzZaman, Hector Llorens, Leon Derczynski, James Allen, Marc Verhagen and James Pustejovsky

ClearTK-TimeML: A minimalist approach to TempEval 2013

Steven Bethard

ManTIME: Temporal expression identification and normalization in the TempEval-3 challenge

Michele Filannino, Gavin Brown and Goran Nenadic

HeidelTime: Tuning English and Developing Spanish Resources for TempEval-3

Jannik Strötgen, Julian Zell and Michael Gertz

FSS-TimEx for TempEval-3: Extracting Temporal Information from Text

Vanni Zavarella and Hristo Tanev

ATT1: Temporal Annotation Using Big Windows and Rich Syntactic and Semantic Features

Hyuckchul Jung and Amanda Stent

JU_CSE: A CRF Based Approach to Annotation of Temporal Expression, Event and Temporal Relations

Anup Kumar Kolya, Amitava Kundu, Rajdeep Gupta, Asif Ekbal, Sivaji Bandyopadhyay

NavyTime: Event and Time Ordering from Raw Text

Nate Chambers

SUTime: Evaluation in TempEval-3

Angel Chang and Christopher D. Manning

KUL: Data-driven Approach to Temporal Parsing of Newswire Articles

Oleksandr Kolomiyets and Marie-Francine Moens

UTTime: Temporal Relation Classification using Deep Syntactic Features

Natsuda Laokulrat, Makoto Miwa, Yoshimasa Tsuruoka and Takashi Chikayama

SemEval-2013 Task 5: Evaluating Phrasal Semantics

Ioannis Korkontzelos, Torsten Zesch, Fabio Massimo Zanzotto and Chris Biemann

Day 2: Friday June 14, 2013 (continued)

HsH: Estimating Semantic Similarity of Words and Short Phrases with Frequency Normalized Distance Measures

Christian Wartena

UMCC_DLSI-(EPS): Paraphrases Detection Based on Semantic Distance

Héctor Dávila, Antonio Fernández Orquín, Alexander Chávez, Yoan Gutiérrez, Armando Collazo, José I. Abreu, Andrés Montoyo and Rafael Muñoz

MELODI: Semantic Similarity of Words and Compositional Phrases using Latent Vector Weighting

Tim Van de Cruys, Stergos Afantenos and Philippe Muller

IIRG: A Naive Approach to Evaluating Phrasal Semantics

Lorna Byrne, Caroline Fenlon and John Dunnion

ClaC: Semantic Relatedness of Words and Phrases

Reda Sibli and Leila Kosseim

UNAL: Discriminating between Literal and Figurative Phrasal Usage Using Distributional Statistics and POS tags

Sergio Jimenez, Claudia Becerra and Alexander Gelbukh

Semeval-2013 Task 8: Cross-lingual Textual Entailment for Content Synchronization

Matteo Negri, Alessandro Marchetti, Yashar Mehdad, Luisa Bentivogli and Danilo Giampiccolo

ECNUCS: Recognizing Cross-lingual Textual Entailment Using Multiple Text Similarity and Text Difference Measures

Jiang Zhao, Man Lan and Zheng-Yu Niu

BUAP: N-gram based Feature Evaluation for the Cross-Lingual Textual Entailment Task

Darnes Vilariño, David Pinto, Saul León, Yuridiana Aleman and Helena Gómez

ALTN: Word Alignment Features for Cross-lingual Textual Entailment

Marco Turchi and Matteo Negri

SOFTCARDINALITY: Learning to Identify Directional Cross-Lingual Entailment from Cardinalities and SMT

Sergio Jimenez, Claudia Becerra and Alexander Gelbukh

Umelb: Cross-lingual Textual Entailment with Word Alignment and String Similarity Features

Yvette Graham, Bahar Salehi and Timothy Baldwin

Day 2: Friday June 14, 2013 (continued)

Session PLN3: (13:30–14:30) Joint Panel: Future of *SEM / STS Shared Task / SemEval

Session SE3: (14:30–15:30) Session 3

14:30–14:50 *UNAL: Discriminating between Literal and Figurative Phrasal Usage Using Distributional Statistics and POS tags*
Sergio Jimenez, Claudia Becerra and Alexander Gelbukh

14:50–15:10 *SemEval-2013 Task 4: Free Paraphrases of Noun Compounds*
Iris Hendrickx, Zornitsa Kozareva, Preslav Nakov, Diarmuid Ó Séaghdha, Stan Szpakowicz and Tony Veale

15:10–15:30 *MELODI: A Supervised Distributional Approach for Free Paraphrasing of Noun Compounds*
Tim Van de Cruys, Stergos Afantenos and Philippe Muller

Session SP2: (15:30–16:30) Coffee Break + Poster Session 2 for Tasks 4, 10, 11, 12

SemEval-2013 Task 4: Free Paraphrases of Noun Compounds
Iris Hendrickx, Zornitsa Kozareva, Preslav Nakov, Diarmuid Ó Séaghdha, Stan Szpakowicz and Tony Veale

SFS-TUE: Compound Paraphrasing with a Language Model and Discriminative Reranking
Yannick Versley

IIT-H: A Corpus-Driven Co-occurrence Based Probabilistic Model for Noun Compound Paraphrasing
Nitesh Surtani, Arpita Batra, Urmi Ghosh and Soma Paul

MELODI: A Supervised Distributional Approach for Free Paraphrasing of Noun Compounds
Tim Van de Cruys, Stergos Afantenos and Philippe Muller

SemEval-2013 Task 10: Cross-lingual Word Sense Disambiguation
Els Lefever and Véronique Hoste

XLING: Matching Query Sentences to a Parallel Corpus using Topic Models for WSD
Liling Tan and Francis Bond

HLTDI: CL-WSD Using Markov Random Fields for SemEval-2013 Task 10
Alex Rudnick, Can Liu and Michael Gasser

Day 2: Friday June 14, 2013 (continued)

LIMSI : Cross-lingual Word Sense Disambiguation using Translation Sense Clustering
Marianna Apidianaki

WSD2: Parameter optimisation for Memory-based Cross-Lingual Word-Sense Disambiguation
Maarten van Gompel and Antal van den Bosch

NRC: A Machine Translation Approach to Cross-Lingual Word Sense Disambiguation (SemEval-2013 Task 10)
Marine Carpuat

SemEval-2013 Task 11: Word Sense Induction and Disambiguation within an End-User Application
Roberto Navigli and Daniele Vannella

Duluth : Word Sense Induction Applied to Web Page Clustering
Ted Pedersen

SATY : Word Sense Induction Application in Web Search Clustering
Satyabrata Behera, Upasana Gaikwad, Ramakrishna Bairy and Ganesh Ramakrishnan

UKP-WSI: UKP Lab Semeval-2013 Task 11 System Description
Hans-Peter Zorn and Iryna Gurevych

unimelb: Topic Modelling-based Word Sense Induction for Web Snippet Clustering
Jey Han Lau, Paul Cook and Timothy Baldwin

SemEval-2013 Task 12: Multilingual Word Sense Disambiguation
Roberto Navigli, David Jurgens and Daniele Vannella

GETALP System : Propagation of a Lesk Measure through an Ant Colony Algorithm
Didier Schwab, Andon Tchechmedjiev, Jérôme Goulian, Mohammad Nasiruddin, Gilles Sérasset and Hervé Blanchon

UMCC_DLSI: Reinforcing a Ranking Algorithm with Sense Frequencies and Multidimensional Semantic Resources to solve Multilingual Word Sense Disambiguation
Yoan Gutiérrez, Yenier Castañeda, Andy González, Rainel Estrada, Dennys D. Piug, Jose I. Abreu, Roger Pérez, Antonio Fernández Orquín, Andrés Montoyo, Rafael Muñoz and Franc Camara

DAEBAK!: Peripheral Diversity for Multilingual Word Sense Disambiguation
Steve L. Manion, and Raazesh Sainudiin

Day 2: Friday June 14, 2013 (continued)

Session SE4: (16:30–18:30) Session 4

- 16:30–16:50 *SemEval-2013 Task 10: Cross-lingual Word Sense Disambiguation*
Els Lefever and Véronique Hoste
- 16:50–17:10 *HLTDI: CL-WSD Using Markov Random Fields for SemEval-2013 Task 10*
Alex Rudnick, Can Liu and Michael Gasser
- 17:10–17:30 *SemEval-2013 Task 11: Word Sense Induction and Disambiguation within an End-User Application*
Roberto Navigli and Daniele Vannella
- 17:30–17:50 *animelb: Topic Modelling-based Word Sense Induction for Web Snippet Clustering*
Jey Han Lau, Paul Cook and Timothy Baldwin
- 17:50–18:10 *SemEval-2013 Task 12: Multilingual Word Sense Disambiguation*
Roberto Navigli, David Jurgens and Daniele Vannella
- 18:10–18:20 *UMCC_DLSI: Reinforcing a Ranking Algorithm with Sense Frequencies and Multidimensional Semantic Resources to solve Multilingual Word Sense Disambiguation*
Yoan Gutiérrez, Yenier Castañeda, Andy González, Rainel Estrada, Dennys D. Piug, Jose I. Abreu, Roger Pérez, Antonio Fernández Orquín, Andrés Montoyo, Rafael Muñoz and Franc Camara
- 18:20–18:30 *DAEBAK!: Peripheral Diversity for Multilingual Word Sense Disambiguation*
Steve L. Manion, and Raazesh Sainudiin

Day 3: Saturday June 15, 2013

Session SE5: (08:40–10:30) Session 5

- 08:40–09:00 *SemEval-2013 Task 3: Spatial Role Labeling*
Oleksandr Kolomiyets, Parisa Kordjamshidi, Marie-Francine Moens and Steven Bethard
- 09:00–09:20 *SemEval-2013 Task 7: The Joint Student Response Analysis and 8th Recognizing Textual Entailment Challenge*
Myroslava Dzikovska, Rodney Nielsen, Chris Brew, Claudia Leacock, Danilo Giampiccolo, Luisa Bentivogli, Peter Clark, Ido Dagan and Hoa Trang Dang
- 09:20–09:35 *ETS: Domain Adaptation and Stacking for Short Answer Scoring*
Michael Heilman and Nitin Madnani

Day 3: Saturday June 15, 2013 (continued)

09:35–09:50 *SOFTCARDINALITY: Hierarchical Text Overlap for Student Response Analysis*
Sergio Jimenez, Claudia Becerra and Alexander Gelbukh

09:50–10:00 *UKP-BIU: Similarity and Entailment Metrics for Student Response Analysis*
Omer Levy, Torsten Zesch, Ido Dagan and Iryna Gurevych

10:00–10:20 *SemEval-2013 Task 13: Word Sense Induction for Graded and Non-Graded Senses*
David Jurgens and Ioannis Klapaftis

10:20–10:30 *AI-KU: Using Substitute Vectors and Co-Occurrence Modeling For Word Sense Induction and Disambiguation*
Osman Baskaya, Enis Sert, Volkan Cirik and Deniz Yuret

(10:30–11:00) Coffee Break

Session SE6: (11:00–13:10) Session 6

11:00–11:10 *unimelb: Topic Modelling-based Word Sense Induction*
Jey Han Lau, Paul Cook and Timothy Baldwin

11:10–11:30 *SemEval-2013 Task 2: Sentiment Analysis in Twitter*
Preslav Nakov, Sara Rosenthal, Zornitsa Kozareva, Veselin Stoyanov, Alan Ritter and Theresa Wilson

11:30–11:50 *NRC-Canada: Building the State-of-the-Art in Sentiment Analysis of Tweets*
Saif Mohammad, Svetlana Kiritchenko and Xiaodan Zhu

11:50–12:00 *GU-MLT-LT: Sentiment Analysis of Short Messages using Linguistic Features and Stochastic Gradient Descent*
Tobias Günther and Lenz Furrer

12:00–12:10 *AVAYA: Sentiment Analysis on Twitter with Self-Training and Polarity Lexicon Expansion*
Lee Becker, George Erhart, David Skiba and Valentine Matula

12:10–12:30 *SemEval-2013 Task 9 : Extraction of Drug-Drug Interactions from Biomedical Texts (DDIExtraction 2013)*
Isabel Segura-Bedmar, Paloma Martínez and María Herrero Zazo

12:30–12:50 *FBK-irst : A Multi-Phase Kernel Based Approach for Drug-Drug Interaction Detection and Classification that Exploits Linguistic Information*
Md. Faisal Mahub Chowdhury and Alberto Lavelli

12:50–13:10 *WBI-NER: The impact of domain-specific features on the performance of identifying and classifying mentions of drugs*
Tim Rocktäschel, Torsten Huber, Michael Weidlich and Ulf Leser

Day 3: Saturday June 15, 2013 (continued)

Session SP3: (13:10–15:30) Lunch Break + Poster Session 3 for Tasks 2, 3, 7, 9, 13

SemEval-2013 Task 2: Sentiment Analysis in Twitter

Preslav Nakov, Sara Rosenthal, Zornitsa Kozareva, Veselin Stoyanov, Alan Ritter and Theresa Wilson

AMI&ERIC: How to Learn with Naive Bayes and Prior Knowledge: an Application to Sentiment Analysis

Mohamed Dermouche, Leila Khouas, Julien Velcin and Sabine Loudcher

UNITOR: Combining Syntactic and Semantic Kernels for Twitter Sentiment Analysis

Giuseppe Castellucci, Simone Filice, Danilo Croce and Roberto Basili

GU-MLT-LT: Sentiment Analysis of Short Messages using Linguistic Features and Stochastic Gradient Descent

Tobias Günther and Lenz Furrer

AVAYA: Sentiment Analysis on Twitter with Self-Training and Polarity Lexicon Expansion

Lee Becker, George Erhart, David Skiba and Valentine Matula

TJP: Using Twitter to Analyze the Polarity of Contexts

Tawunrat Chalothorn and Jeremy Ellman

uOttawa: System description for SemEval 2013 Task 2 Sentiment Analysis in Twitter

Hamid Poursepanj, Josh Weissbock and Diana Inkpen

UT-DB: An Experimental Study on Sentiment Analysis in Twitter

Zhemín Zhu, Djoerd Hiemstra, Peter Apers and Andreas Wombacher

USNA: A Dual-Classifier Approach to Contextual Sentiment Analysis

Ganesh Harihara, Eugene Yang and Nate Chambers

KLUE: Simple and robust methods for polarity classification

Thomas Proisl, Paul Greiner, Stefan Evert and Besim Kabashi

SINAI: Machine Learning and Emotion of the Crowd for Sentiment Analysis in Microblogs

Eugenio Martínez-Cámara, Arturo Montejo-Ráez, M. Teresa Martín-Valdivia and L. Alfonso Ureña-López

ECNUCS: A Surface Information Based System Description of Sentiment Analysis in Twitter in the SemEval-2013 (Task 2)

Zhu Tiantian, Zhang Fangxi and Man Lan

Umigon: sentiment analysis for tweets based on terms lists and heuristics

Clement Levallois

Day 3: Saturday June 15, 2013 (continued)

[LVIC-LIMSI]: Using Syntactic Features and Multi-polarity Words for Sentiment Analysis in Twitter

Morgane Marchand, Alexandru Ginsca, Romaric Besançon and Olivier Mesnard

SwatCS: Combining simple classifiers with estimated accuracy

Sam Clark and Rich Wicentwoski

NTNU: Domain Semi-Independent Short Message Sentiment Classification

Øyvind Selmer, Mikael Brevik, Björn Gambäck and Lars Bungum

SAIL: A hybrid approach to sentiment analysis

Nikolaos Malandrakis, Abe Kazemzadeh, Alexandros Potamianos and Shrikanth Narayanan

UMCC_DLSI-(SA): Using a ranking algorithm and informal features to solve Sentiment Analysis in Twitter

Yoan Gutiérrez, Andy González, Roger Pérez, José I. Abreu, Antonio Fernández Orquín, Alejandro Mosquera, Andrés Montoyo, Rafael Muñoz and Franc Camara

ASVUniOfLeipzig: Sentiment Analysis in Twitter using Data-driven Machine Learning Techniques

Robert Remus

Experiments with DBpedia, WordNet and SentiWordNet as resources for sentiment analysis in micro-blogging

Hussam Hamdan, Frederic Béchet and Patrice Bellot

OPTWIMA: Comparing Knowledge-rich and Knowledge-poor Approaches for Sentiment Analysis in Short Informal Texts

Alexandra Balahur

FBK: Sentiment Analysis in Twitter with Tweetsted

Md. Faisal Mahbub Chowdhury, Marco Guerini, Sara Tonelli and Alberto Lavelli

SU-Sentilab : A Classification System for Sentiment Analysis in Twitter

Gizem Gezici, Rahim Dehkharghani, Berrin Yanikoglu, Dilek Tapucu and Yucel Saygin

Columbia NLP: Sentiment Detection of Subjective Phrases in Social Media

Sara Rosenthal and Kathy McKeown

FBM: Combining lexicon-based ML and heuristics for Social Media Polarities

Carlos Rodriguez-Penagos, Jordi Atserias Batalla, Joan Codina-Filbà, David García-Narbona, Jens Grivolla, Patrik Lambert and Roser Saurí

Day 3: Saturday June 15, 2013 (continued)

REACTION: A naive machine learning approach for sentiment classification

Silvio Moreira, João Filgueiras, Bruno Martins, Francisco Couto and Mário J. Silva

IITB-Sentiment-Analysts: Participation in Sentiment Analysis in Twitter SemEval 2013 Task

Karan Chawla, Ankit Ramteke and Pushpak Bhattacharyya

SSA-UO: Unsupervised Sentiment Analysis in Twitter

Reynier Ortega Bueno, Adrian Fonseca Bruzón, Yoan Gutiérrez and Andres Montoyo

senti.ue-en: an approach for informally written short texts in SemEval-2013 Sentiment Analysis task

José Saias and Hilário Fernandes

teragram: Rule-based detection of sentiment phrases using SAS Sentiment Analysis

Hilke Reckman, Cheyanne Baird, Jean Crawford, Richard Crowell, Linnea Micciulla, Saratendu Sethi and Fruzsina Veress

CodeX: Combining an SVM Classifier and Character N-gram Language Models for Sentiment Analysis on Twitter Text

Qi Han, Junfei Guo and Hinrich Schuetze

sielers : Feature Analysis and Polarity Classification of Expressions from Twitter and SMS Data

Harshit Jain, Aditya Mogadala and Vasudeva Varma

Kea: Expression-level Sentiment Analysis from Twitter Data

Ameeta Agrawal and Aijun An

NRC-Canada: Building the State-of-the-Art in Sentiment Analysis of Tweets

Saif Mohammad, Svetlana Kiritchenko and Xiaodan Zhu

UoM: Using Explicit Semantic Analysis for Classifying Sentiments

Sapna Negi and Michael Rosner

bwbaugh : Hierarchical sentiment analysis with partial self-training

Wesley Baugh

Serendio: Simple and Practical lexicon based approach to Sentiment Analysis

Prabu palanisamy, Vineet Yadav and Harsha Elchuri

SZTE-NLP: Sentiment Detection on Twitter Messages

Viktor Hangya, Gabor Berend and Richárd Farkas

Day 3: Saturday June 15, 2013 (continued)

BOUNCE: Sentiment Classification in Twitter using Rich Feature Sets

Nadin Kökciyan, Arda Çelebi, Arzucan Özgür and Suzan Üsküdarlı

nlp.cs.aueb.gr: Two Stage Sentiment Analysis

Prodromos Malakasiotis, Rafael Michael Karampatsis, Konstantina Makrynioti and John Pavlopoulos

NILC_USP: A Hybrid System for Sentiment Analysis in Twitter Messages

Pedro Balage Filho and Thiago Pardo

SemEval-2013 Task 3: Spatial Role Labeling

Oleksandr Kolomiyets, Parisa Kordjamshidi, Marie-Francine Moens and Steven Bethard

UNITOR-HMM-TK: Structured Kernel-based learning for Spatial Role Labeling

Emanuele Bastianelli, Danilo Croce, Roberto Basili and Daniele Nardi

SemEval-2013 Task 7: The Joint Student Response Analysis and 8th Recognizing Textual Entailment Challenge

Myroslava Dzikovska, Rodney Nielsen, Chris Brew, Claudia Leacock, Danilo Giampiccolo, Luisa Bentivogli, Peter Clark, Ido Dagan and Hoa Trang Dang

UKP-BIU: Similarity and Entailment Metrics for Student Response Analysis

Omer Levy, Torsten Zesch, Ido Dagan and Iryna Gurevych

ETS: Domain Adaptation and Stacking for Short Answer Scoring

Michael Heilman and Nitin Madnani

EHU-ALM: Similarity-Feature Based Approach for Student Response Analysis

Itziar Aldabe, Montse Maritxalar and Oier Lopez de Lacalle

CNGL: Grading Student Answers by Acts of Translation

Ergun Bicici and Josef van Genabith

Celi: EDITS and Generic Text Pair Classification

Milen Kouylekov, Luca Dini, Alessio Bosca and Marco Trevisan

LIMSILES: Basic English Substitution for Student Answer Assessment at SemEval 2013

Martin Gleize and Brigitte Grau

SOFTCARDINALITY: Hierarchical Text Overlap for Student Response Analysis

Sergio Jimenez, Claudia Becerra and Alexander Gelbukh

CU : Computational Assessment of Short Free Text Answers - A Tool for Evaluating Students' Understanding

IFEYINWA OKOYE, Steven Bethard and Tamara Sumner

Day 3: Saturday June 15, 2013 (continued)

CoMeT: Integrating different levels of linguistic modeling for meaning assessment
Niels Ott, Ramon Ziai, Michael Hahn and Detmar Meurers

SemEval-2013 Task 9 : Extraction of Drug-Drug Interactions from Biomedical Texts (DDIExtraction 2013)
Isabel Segura-Bedmar, Paloma Martínez and María Herrero Zazo

UC3M: A kernel-based approach to identify and classify DDIs in bio-medical texts.
Daniel Sanchez-Cisneros

UEM-UC3M: An Ontology-based named entity recognition system for biomedical texts.
Daniel Sanchez-Cisneros and Fernando Aparicio Gali

FBK-irst : A Multi-Phase Kernel Based Approach for Drug-Drug Interaction Detection and Classification that Exploits Linguistic Information
Md. Faisal Mahbub Chowdhury and Alberto Lavelli

WBI-DDI: Drug-Drug Interaction Extraction using Majority Voting
Philippe Thomas, Mariana Neves, Tim Rocktäschel and Ulf Leser

WBI-NER: The impact of domain-specific features on the performance of identifying and classifying mentions of drugs
Tim Rocktäschel, Torsten Huber, Michael Weidlich and Ulf Leser

UMCC_DLSI: Semantic and Lexical features for detection and classification Drugs in biomedical texts
Armando Collazo, Alberto Ceballo, Dennys D. Puig, Yoan Gutiérrez, José I. Abreu, Roger Pérez, Antonio Fernández Orquín, Andrés Montoyo, Rafael Muñoz and Franc Camara

NIL_UCM: Extracting Drug-Drug interactions from text through combination of sequence and tree kernels
Behrouz Bokharaeian and ALBERTO DIAZ

UTurku: Drug Named Entity Recognition and Drug-Drug Interaction Extraction Using SVM Classification and Domain Knowledge
Jari Björne, Suwisa Kaewphan and Tapio Salakoski

LASIGE: using Conditional Random Fields and ChEBI ontology
Tiago Grego, Francisco Pinto and Francisco M Couto

UWM-TRIADS: Classifying Drug-Drug Interactions with Two-Stage SVM and Post-Processing
Majid Rastegar-Mojarad, Richard D. Boyce and Rashmi Prasad

Day 3: Saturday June 15, 2013 (continued)

SCAI: Extracting drug-drug interactions using a rich feature vector

Tamara Bobic, Juliane Fluck and Martin Hofmann-Apitius

UColorado_SOM: Extraction of Drug-Drug Interactions from Biomedical Text using Knowledge-rich and Knowledge-poor Features

Negacy Hailu, Lawrence E. Hunter and K. Bretonnel Cohen

SemEval-2013 Task 13: Word Sense Induction for Graded and Non-Graded Senses

David Jurgens and Ioannis Klapaftis

UoS: A Graph-Based System for Graded Word Sense Induction

David Hope and Bill Keller

AI-KU: Using Substitute Vectors and Co-Occurrence Modeling For Word Sense Induction and Disambiguation

Osman Baskaya, Enis Sert, Volkan Cirik and Deniz Yuret

unimelb: Topic Modelling-based Word Sense Induction

Jey Han Lau, Paul Cook and Timothy Baldwin