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Preface

This volume contains papers describing the tasks and participating systems in SemEval-2007 — the Fourth International Workshop on Semantic Evaluations. The SemEval-2007 workshop was held in conjunction with the Association for Computational Linguistics meeting on June 23-24, 2007 in Prague, Czech Republic.

The ACL Special Interest Group on the Lexicon (SIGLEX) is the umbrella organization for SemEval-2007. SIGLEX previously ran three highly successful evaluation exercises for word sense disambiguation under the name Senseval. As the nature of the tasks in Senseval has evolved to include semantic analysis tasks outside of word sense disambiguation, the Senseval Committee changed the name of the evaluation exercises to SemEval.

SemEval-2007 was very successful. Our call for tasks solicited 27 task proposals. After a careful review process and a call for interest in participation, we selected 18 tasks to be part of the evaluation. Over 100 teams participated with over 125 unique systems. As a comparison, Senseval-3 (2004) organized 14 tasks with 55 teams.

Some tasks were updated versions of tasks found in Senseval-3, including lexical-sample word sense disambiguation tasks in Catalan, English, Spanish and Turkish, two all-words English word sense disambiguation tasks, and two multilingual lexical sample tasks (Chinese-English). The updates included using coarse-sense inventories, or combining word sense disambiguation and semantic role classification. The rest of the tasks were novel to this evaluation exercises, and some have been organized for the first time. Below is the full list of tasks. Note that Task 3 was withdrawn before the competition started.

- *Task 01: Evaluating WSD on Cross-Language Information Retrieval*
- *Task 02: Evaluating Word Sense Induction and Discrimination Systems*
- *Task 04: Classification of Semantic Relations between Nominals*
- *Task 05: Multilingual Chinese-English Lexical Sample*
- *Task 06: Word-Sense Disambiguation of Prepositions*
- *Task 07: Coarse-Grained English All-Words Task*
- *Task 08: Metonymy Resolution at SemEval-2007*
- *Task 09: Multilevel Semantic Annotation of Catalan and Spanish*
- *Task 10: English Lexical Substitution Task*
- *Task 11: English Lexical Sample Task via English-Chinese Parallel Text*
- *Task 12: Turkish Lexical Sample Task*
- *Task 13: Web People Search*

- *Task 14: Affective Text*
- *Task 15: TempEval Temporal Relation Identification*
- *Task 16: Evaluation of Wide Coverage Knowledge Resources*
- *Task-17: English Lexical Sample, SRL and All Words*
- *Task 18: Arabic Semantic Labeling*
- *Task 19: Frame Semantic Structure Extraction*

These proceedings include the descriptions of all tasks and most of the participating systems. The papers in these proceedings represent a wide variety of state-of-the-art methods for semantic analysis. The proceedings are organized as follows: we first present the task description papers, ordered by task number. System papers follow, with papers ordered according to system name. In addition to the usual author index we also include a task-system index in the back, for easier browsing.

All of the papers were peer-reviewed by the program committee, task organizers and fellow participants. We are truly grateful for everyone's careful and insightful reviews. The papers in this proceedings have benefited from this feedback.

We thank Ed Hovy for his invited talk, and we also thank the members of the two panels for providing discussion and insights on 1) inference with semantics, led by Bernarndo Magnini and 2) the future of SemEval, led by Rada Mihalcea.

The evaluation really comes down to the organization of the tasks. The task organizers did an extraordinary job of task design, data creation, and administration, under tight time constraints. We are grateful to the ACL 2007 conference organizers for local organization and the forum. We most gratefully acknowledge the support of our sponsor, the ACL Special Interest Group on the Lexicon (SIGLEX). Finally, the organizers wish to express their gratitude for the invaluable guidance provided by Rada Mihalcea and Phil Edmonds.

Eneko Agirre, Lluís Màrquez and Richard Wicentowski
June 2007

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Eneko Agirre, University of the Basque Country
Lluís Màrquez, Technical University of Catalonia
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Additional Reviewers:

Task organizers and participant teams helped with the reviewing process. We also thank Marine Carpuat, Lluís Padró, and Horacio Rodríguez for serving as additional reviewers.

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Eduard Hovy, ISI - University of Southern California

Panel moderators:

Bernardo Magnini, FBK/IRST
Rada Mihalcea, University of North Texas

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Website:

`http://nlp.cs.swarthmore.edu/semeval/`

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Alina Andreevskaia and Sabine Bergler

9:15–9:30 *SemEval-2007 Task 15: TempEval Temporal Relation Identification*
Marc Verhagen, Robert Gaizauskas, Frank Schilder, Mark Hepple, Graham Katz and James Pustejovsky

9:30–9:45 *WVALI: Temporal Relation Identification by Syntactico-Semantic Analysis*
Georgiana Puşcaşu

9:45–10:00 *SemEval-2007 Task-17: English Lexical Sample, SRL and All Words*
Sameer Pradhan, Edward Loper, Dmitriy Dligach and Martha Palmer

10:00–10:15 *I2R: Three Systems for Word Sense Discrimination, Chinese Word Sense Disambiguation, and English Word Sense Disambiguation*
Zheng-Yu Niu, Dong-Hong Ji and Chew-Lim Tan

10:15–10:30 *NUS-PT: Exploiting Parallel Texts for Word Sense Disambiguation in the English All-Words Tasks*
Yee Seng Chan, Hwee Tou Ng and Zhi Zhong

10:30–10:45 *UNT: SubFinder: Combining Knowledge Sources for Automatic Lexical Substitution*
Samer Hassan, Andras Csomai, Carmen Banea, Ravi Sinha and Rada Mihalcea

10:45–11:15 coffee break

Sunday, June 24, 2007 (continued)

Poster session 2

11:15–12:30 *SemEval-2007 Task 09: Multilevel Semantic Annotation of Catalan and Spanish*
Lluís Màrquez, Lluis Villarejo, M. A. Martí and Mariona Taulé

SemEval-2007 Task 12: Turkish Lexical Sample Task
Zeynep Orhan, Emine Çelik and Demirgüç Neslihan

SemEval-2007 Task 16: Evaluation of Wide Coverage Knowledge Resources
Montse Cuadros and German Rigau

SemEval-2007 Task 18: Arabic Semantic Labeling
Mona Diab, Musa Alkhalifa, Sabry ElKateb, Christiane Fellbaum, Aous Mansouri and Martha Palmer

AUG: A combined classification and clustering approach for web people disambiguation
Els Lefever, Véronique Hoste and Timur Fayruzov

CITYU-HIF: WSD with Human-Informed Feature Preference
Oi Yee Kwong

CU-COMSEM: Exploring Rich Features for Unsupervised Web Personal Name Disambiguation
Ying Chen and James H. Martin

CU-TMP: Temporal Relation Classification Using Syntactic and Semantic Features
Steven Bethard and James H. Martin

CUNIT: A Semantic Role Labeling System for Modern Standard Arabic
Mona Diab, Alessandro Moschitti and Daniele Pighin

DFKI2: An Information Extraction Based Approach to People Disambiguation
Andrea Heyl and Günter Neumann

FBK-irst: Lexical Substitution Task Exploiting Domain and Syntagmatic Coherence
Claudio Giuliano, Alfio Gliozzo and Carlo Strapparava

FICO: Web Person Disambiguation Via Weighted Similarity of Entity Contexts
Paul Kalmar and Matthias Blume

Sunday, June 24, 2007 (continued)

HIT-IR-WSD: A WSD System for English Lexical Sample Task
Yuhang Guo, Wanxiang Che, Yuxuan Hu, Wei Zhang and Ting Liu

HIT: Web based Scoring Method for English Lexical Substitution
Shiqi Zhao, Lin Zhao, Yu Zhang, Ting Liu and Sheng Li

ILK2: Semantic Role Labeling of Catalan and Spanish using TiMBL
Roser Morante and Bertjan Busser

IRST-BP: Web People Search Using Name Entities
Octavian Popescu and Bernardo Magnini

JHU1 : An Unsupervised Approach to Person Name Disambiguation using Web Snippets
Delip Rao, Nikesh Garera and David Yarowsky

JU-SKNSB: Extended WordNet Based WSD on the English All-Words Task at SemEval-1
Sudip Kumar Naskar and Sivaji Bandyopadhyay

KU: Word Sense Disambiguation by Substitution
Deniz Yuret

LCC-TE: A Hybrid Approach to Temporal Relation Identification in News Text
Congmin Min, Munirathnam Srikanth and Abraham Fowler

MELB-MKB: Lexical Substitution system based on Relatives in Context
David Martinez, Su Nam Kim and Timothy Baldwin

NAIST.Japan: Temporal Relation Identification Using Dependency Parsed Tree
Yuchang Cheng, Masayuki Asahara and Yuji Matsumoto

NUS-ML:Improving Word Sense Disambiguation Using Topic Features
Jun Fu Cai, Wee Sun Lee and Yee Whye Teh

OE: WSD Using Optimal Ensembling (OE) Method
Harri M. T. Saarikoski

PKU: Combining Supervised Classifiers with Features Selection
Peng Jin, Danqing Zhu, Fuxin Li and Yunfang Wu

PNNL: A Supervised Maximum Entropy Approach to Word Sense Disambiguation
Stephen Tratz, Antonio Sanfilippo, Michelle Gregory, Alan Chappell, Christian Posse and Paul Whitney

PU-BCD: Exponential Family Models for the Coarse- and Fine-Grained All-Words Tasks
Jonathan Chang, Miroslav Dudik and David Blei

PUTOP: Turning Predominant Senses into a Topic Model for Word Sense Disambiguation
Jordan Boyd-Graber and David Blei

RACAI: Meaning Affinity Models
Radu Ion and Dan Tufiş

12:30–14:30 lunch

Poster session 3

14:30–15:45 *CLR: Integration of FrameNet in a Text Representation System*
Kenneth C. Litkowski

RTV: Tree Kernels for Thematic Role Classification
Daniele Pighin, Alessandro Moschitti and Roberto Basili

SHEF: Semantic Tagging and Summarization Techniques Applied to Cross-document Coreference
Horacio Saggion

SICS: Valence annotation based on seeds in word space
Magnus Sahlgren, Jussi Karlgren and Gunnar Eriksson

SW-AG: Local Context Matching for English Lexical Substitution
George Dahl, Anne-Marie Frassica and Richard Wicentowski

SWAT-MP:The SemEval-2007 Systems for Task 5 and Task 14
Phil Katz, Matt Singleton and Richard Wicentowski

Sunday, June 24, 2007 (continued)

TITPI: Web People Search Task Using Semi-Supervised Clustering Approach
Kazunari Sugiyama and Manabu Okumura

TKB-UO: Using Sense Clustering for WSD
Henry Anaya-Sánchez, Aurora Pons-Porrata and Rafael Berlanga-Llavori

Tor, TorMd: Distributional Profiles of Concepts for Unsupervised Word Sense Disambiguation
Saif Mohammad, Graeme Hirst and Philip Resnik

UA-ZBSA: A Headline Emotion Classification through Web Information
Zornitsa Kozareva, Borja Navarro, Sonia Vazquez and Andres Montoyo

UA-ZSA: Web Page Clustering on the basis of Name Disambiguation
Zornitsa Kozareva, Sonia Vazquez and Andres Montoyo

UBC-ALM: Combining k-NN with SVD for WSD
Eneko Agirre and Oier Lopez de Lacalle

UBC-AS: A Graph Based Unsupervised System for Induction and Classification
Eneko Agirre and Aitor Soroa

UBC-UMB: Combining unsupervised and supervised systems for all-words WSD
David Martinez, Timothy Baldwin, Eneko Agirre and Oier Lopez de Lacalle

UBC-UPC: Sequential SRL Using Selectional Preferences. An approach with Maximum Entropy Markov Models
Beñat Zapirain, Eneko Agirre and Lluís Màrquez

UBC-ZAS: A k-NN based Multiclassifier System to perform WSD in a Reduced Dimensional Vector Space
Ana Zelaia, Olatz Arregi and Basilio Sierra

UC3M_13: Disambiguation of Person Names Based on the Composition of Simple Bags of Typed Terms
David del Valle-Agudo, César de Pablo-Sánchez and María Teresa Vicente-Díez

UMND1: Unsupervised Word Sense Disambiguation Using Contextual Semantic Relatedness
Siddharth Patwardhan, Satanjeev Banerjee and Ted Pedersen

Sunday, June 24, 2007 (continued)

UNN-WePS: Web Person Search using co-Present Names and Lexical Chains
Jeremy Ellman and Gary Emery

UNT-Yahoo: SuperSenseLearner: Combining SenseLearner with SuperSense and other Coarse Semantic Features
Rada Mihalcea, Andras Csomai and Massimiliano Ciaramita

UPAR7: A knowledge-based system for headline sentiment tagging
François-Régis Chaumartin

UPV-WSD : Combining different WSD Methods by means of Fuzzy Borda Voting
Davide Buscaldi and Paolo Rosso

USFD: Preliminary Exploration of Features and Classifiers for the TempEval-2007 Task
Mark Hepple, Andrea Setzer and Robert Gaizauskas

USP-IBM-1 and USP-IBM-2: The ILP-based Systems for Lexical Sample WSD in SemEval-2007
Lucia Specia, Maria das Graças, Volpe Nunes, Ashwin Srinivasan and Ganesh Ramakrishnan

USYD: WSD and Lexical Substitution using the Web1T corpus
Tobias Hawker

UTD-SRL: A Pipeline Architecture for Extracting Frame Semantic Structures
Cosmin Adrian Bejan and Chris Hathaway

UVA: Language Modeling Techniques for Web People Search
Krisztian Balog, Leif Azzopardi and Maarten de Rijke

WIT: Web People Search Disambiguation using Random Walks
José Iria, Lei Xia and Ziqi Zhang

XRCE-T: XIP Temporal Module for TempEval campaign.
Caroline Hagège and Xavier Tannier

15:45–16:15 coffee break

16:15–16:30 *UPC: Experiments with Joint Learning within SemEval Task 9*
Lluís Màrquez, Lluís Padró, Mihai Surdeanu and Luis Villarejo

Sunday, June 24, 2007 (continued)

16:30–16:45 *SemEval-2007 Task 19: Frame Semantic Structure Extraction*
Collin Baker, Michael Ellsworth and Katrin Erk

16:45–17:00 *LTH: Semantic Structure Extraction using Nonprojective Dependency Trees*
Richard Johansson and Pierre Nugues

17:00–18:00 Panel: Planning the future of SemEval

18:00 Closing