SemEval-2016

The 10th International Workshop on Semantic Evaluation

Proceedings of the Workshop

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Welcome to SemEval-2016

The Semantic Evaluation (SemEval) series of workshops focuses 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-2016 is the tenth workshop in the series of International Workshops on Semantic Evaluation Exercises. The first three workshops, SensEval-1 (1998), SensEval-2 (2001), and SensEval-3 (2004), focused on word sense disambiguation, each time growing in the number of languages offered, in the number of tasks, and also in the number of participating teams. In 2007, the workshop was renamed to SemEval, and the subsequent SemEval workshops evolved to include semantic analysis tasks beyond word sense disambiguation. In 2012, SemEval turned into a yearly event. It currently runs every year, but on a two-year cycle, i.e., the tasks for SemEval-2016 were proposed in 2015.

SemEval-2016 was co-located with the 2016 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT'2016) in San Diego, California. It included the following 14 shared tasks organized in five tracks:

- Text Similarity and Question Answering Track
  - Task 1: Semantic Textual Similarity: A Unified Framework for Semantic Processing and Evaluation
  - Task 2: Interpretable Semantic Textual Similarity
  - Task 3: Community Question Answering
- Sentiment Analysis Track
  - Task 4: Sentiment Analysis in Twitter
  - Task 5: Aspect-Based Sentiment Analysis
  - Task 6: Detecting Stance in Tweets
  - Task 7: Determining Sentiment Intensity of English and Arabic Phrases
- Semantic Parsing Track
  - Task 8: Meaning Representation Parsing
  - Task 9: Chinese Semantic Dependency Parsing
- Semantic Analysis Track
  - Task 10: Detecting Minimal Semantic Units and their Meanings
  - Task 11: Complex Word Identification
  - Task 12: Clinical TempEval

- Semantic Taxonomy Track
  - Task 13: TExEval-2 – Taxonomy Extraction
  - Task 14: Semantic Taxonomy Enrichment

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 14 task description papers and 198 system description papers are included in this volume.

We are grateful to all task organisers as well as the large number of participants whose enthusiastic participation has made SemEval once again a successful event. We are thankful to the task organisers who also served as area chairs, and to task organisers and participants who reviewed paper submissions. These proceedings have greatly benefited from their detailed and thoughtful feedback. We also thank the NAACL 2016 conference organizers for their support. Finally, we most gratefully acknowledge the support of our sponsor, the ACL Special Interest Group on the Lexicon (SIGLEX).

The SemEval-2016 organizers,
Steven Bethard, Daniel Cer, Marine Carpuat, David Jurgens, Preslav Nakov and Torsten Zesch

Organizers:

Steven Bethard, University of Alabama at Birmingham
Daniel Cer, Google
Marine Carpuat, University of Maryland
David Jurgens, Stanford University
Preslav Nakov, Qatar Computing Research Institute, HBKU
Torsten Zesch, University of Duisburg-Essen

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Marc Franco-Salvador, Sudipta Kar, Thamar Solorio and Paolo Rosso

RDI_Team at SemEval-2016 Task 3: RDI Unsupervised Framework for Text Ranking
Ahmed Magooda, Amr Gomaa, Ashraf Mahgoub, Hany Ahmed, Mohsen Rashwan, Hazem Raafat, Eslam Kamal and Ahmad Al Sallab

SLS at SemEval-2016 Task 3: Neural-based Approaches for Ranking in Community Question Answering
Mitra Mohtarami, Yonatan Belinkov, Wei-Ning Hsu, Yu Zhang, Tao Lei, Kfir Bar, Scott Cyphers and Jim Glass

SUper Team at SemEval-2016 Task 3: Building a Feature-Rich System for Community Question Answering
Tsvetomila Mihaylova, Pepa Gencheva, Martin Boyanov, Ivana Yovcheva, Todor Mihaylov, Momchil Hardalov, Yasen Kiprov, Daniel Balchev, Ivan Koychev, Preslav Nakov, Ivelina Nikolova and Galia Angelova

PMI-cool at SemEval-2016 Task 3: Experiments with PMI and Goodness Polarity Lexicons for Community Question Answering
Daniel Balchev, Yasen Kiprov, Ivan Koychev and Preslav Nakov

UniMelb at SemEval-2016 Task 3: Identifying Similar Questions by combining a CNN with String Similarity Measures
Timothy Baldwin, Huizhi Liang, Bahar Salehi, Doris Hoogeveen, Yitong Li and Long Duong

ICL00 at SemEval-2016 Task 3: Translation-Based Method for CQA System
Yunfang Wu and Minghua Zhang

Overfitting at SemEval-2016 Task 3: Detecting Semantically Similar Questions in Community Question Answering Forums with Word Embeddings
Hujie Wang and Pascal Poupart

QU-IR at SemEval 2016 Task 3: Learning to Rank on Arabic Community Question Answering Forums with Word Embedding
Rana Malhas, Marwan Torki and Tamer Elsayed

16 Jun 2016 (continued)

ECNU at SemEval-2016 Task 3: Exploring Traditional Method and Deep Learning Method for Question Retrieval and Answer Ranking in Community Question Answering
Guoshun Wu and Man Lan

SemanticZ at SemEval-2016 Task 3: Ranking Relevant Answers in Community Question Answering Using Semantic Similarity Based on Fine-tuned Word Embeddings
Todor Mihaylov and Preslav Nakov

MTE-NN at SemEval-2016 Task 3: Can Machine Translation Evaluation Help Community Question Answering?
Francisco Guzmán, Preslav Nakov and Lluís Màrquez

ConvKN at SemEval-2016 Task 3: Answer and Question Selection for Question Answering on Arabic and English Fora
Alberto Barrón-Cedeño, Giovanni Da San Martino, Shafiq Joty, Alessandro Moschitti, Fahad Al-Obaidli, Salvatore Romeo, Kateryna Tymoshenko and Antonio Uva

ITNLP-AiKF at SemEval-2016 Task 3 a quesiton answering system using community QA repository
Chang e Jia

UFRGS&LIF at SemEval-2016 Task 10: Rule-Based MWE Identification and Predominant-Supersense Tagging
Silvio Cordeiro, Carlos Ramisch and Aline Villavicencio

WHUNlp at SemEval-2016 Task DiMSUM: A Pilot Study in Detecting Minimal Semantic Units and their Meanings using Supervised Models
Xin Tang, Fei Li and Donghong Ji

UTU at SemEval-2016 Task 10: Binary Classification for Expression Detection (BCED)
Jari Björne and Tapio Salakoski

UW-CSE at SemEval-2016 Task 10: Detecting Multiword Expressions and Supersenses using Double-Chained Conditional Random Fields
Mohammad Javad Hosseini, Noah A. Smith and Su-In Lee

ICL-HD at SemEval-2016 Task 10: Improving the Detection of Minimal Semantic Units and their Meanings with an Ontology and Word Embeddings
Angelika Kirilin, Felix Krauss and Yannick Versley

16 Jun 2016 (continued)

VectorWeavers at SemEval-2016 Task 10: From Incremental Meaning to Semantic Unit (phrase by phrase)
Andreas Scherbakov, Ekaterina Vylomova, Fei Liu and Timothy Baldwin

PLUJAGH at SemEval-2016 Task 11: Simple System for Complex Word Identification
Krzysztof Wróbel

USAAR at SemEval-2016 Task 11: Complex Word Identification with Sense Entropy and Sentence Perplexity
José Manuel Martínez Martínez and Liling Tan

Sensible at SemEval-2016 Task 11: Neural Nonsense Mangled in Ensemble Mess
Gillin Nat

SV000gg at SemEval-2016 Task 11: Heavy Gauge Complex Word Identification with System Voting
Gustavo Paetzold and Lucia Specia

Melbourne at SemEval 2016 Task 11: Classifying Type-level Word Complexity using Random Forests with Corpus and Word List Features
Julian Brooke, Alexandra Uitdenbogerd and Timothy Baldwin

CLaC at SemEval-2016 Task 11: Exploring linguistic and psycho-linguistic Features for Complex Word Identification
Elnaz Davoodi and Leila Kosseim

JU_NLP at SemEval-2016 Task 11: Identifying Complex Words in a Sentence
Niloy Mukherjee, Braja Gopal Patra, Dipankar Das and Sivaji Bandyopadhyay

MAZA at SemEval-2016 Task 11: Detecting Lexical Complexity Using a Decision Stump Meta-Classifier
Shervin Malmasi and Marcos Zampieri

LTG at SemEval-2016 Task 11: Complex Word Identification with Classifier Ensembles
Shervin Malmasi, Mark Dras and Marcos Zampieri

16 Jun 2016 (continued)

MacSaar at SemEval-2016 Task 11: Zipfian and Character Features for Complex-Word Identification
Marcos Zampieri, Liling Tan and Josef van Genabith

Garuda & Bhasha at SemEval-2016 Task 11: Complex Word Identification Using Aggregated Learning Models
Prafulla Choubey and Shubham Pateria

TALN at SemEval-2016 Task 11: Modelling Complex Words by Contextual, Lexical and Semantic Features
Francesco Ronzano, Ahmed Abura'ed, Luis Espinosa Anke and Horacio Saggion

IIIT at SemEval-2016 Task 11: Complex Word Identification using Nearest Centroid Classification
Ashish Palakurthi and Radhika Mamidi

AmritaCEN at SemEval-2016 Task 11: Complex Word Identification using Word Embedding
sanjay sp, Anand Kumar and Soman K P

CoastalCPH at SemEval-2016 Task 11: The importance of designing your Neural Networks right
Joachim Bingel, Natalie Schluter and Héctor Martínez Alonso

HMC at SemEval-2016 Task 11: Identifying Complex Words Using Depth-limited Decision Trees
Maury Quijada and Julie Medero

UWB at SemEval-2016 Task 11: Exploring Features for Complex Word Identification
Michal Konkol

AI-KU at SemEval-2016 Task 11: Word Embeddings and Substring Features for Complex Word Identification
Onur Kuru

Pomona at SemEval-2016 Task 11: Predicting Word Complexity Based on Corpus Frequency
David Kauchak

17 Jun 2016

09:00–10:30 Perspectives

09:00–09:30 *SemEval-2017 Preview*
SemEval organizers

09:30–10:30 ***Invited Talk***

10:30–11:00 ***Coffee Break***

11:00–12:30 Semantic Analysis, Semantic Parsing and Semantic Taxonomy

11:00–11:15 *SemEval-2016 Task 12: Clinical TempEval*
Steven Bethard, Guergana Savova, Wei-Te Chen, Leon Derczynski, James Pustejovsky and Marc Verhagen

11:15–11:30 *SemEval-2016 Task 8: Meaning Representation Parsing*
Jonathan May

11:30–11:45 *SemEval-2016 Task 9: Chinese Semantic Dependency Parsing*
Wanxiang Che, Yanqiu Shao, Ting Liu and Yu Ding

11:45–12:00 *SemEval-2016 Task 13: Taxonomy Extraction Evaluation (TExEval-2)*
Georgeta Bordea, Els Lefever and Paul Buitelaar

12:00–12:15 *SemEval-2016 Task 14: Semantic Taxonomy Enrichment*
David Jurgens and Mohammad Taher Pilehvar

12:30–02:00 ***Lunch***

17 Jun 2016 (continued)

02:00–03:30 Best Of SemEval

02:00–02:15 *UMD-TTIC-UW at SemEval-2016 Task 1: Attention-Based Multi-Perspective Convolutional Neural Networks for Textual Similarity Measurement*
Hua He, John Wieting, Kevin Gimpel, Jinfeng Rao and Jimmy Lin

02:15–02:30 *Inspire at SemEval-2016 Task 2: Interpretable Semantic Textual Similarity Alignment based on Answer Set Programming*
Mishal Kazmi and Peter Schüller

02:30–02:45 *KeLP at SemEval-2016 Task 3: Learning Semantic Relations between Questions and Answers*
Simone Filice, Danilo Croce, Alessandro Moschitti and Roberto Basili

02:45–03:00 *SwissCheese at SemEval-2016 Task 4: Sentiment Classification Using an Ensemble of Convolutional Neural Networks with Distant Supervision*
Jan Deriu, Maurice Gonzenbach, Fatih Uzdilli, Aurelien Lucchi, Valeria De Luca and Martin Jaggi

03:00–03:15 *IIT-TUDA at SemEval-2016 Task 5: Beyond Sentiment Lexicon: Combining Domain Dependency and Distributional Semantics Features for Aspect Based Sentiment Analysis*
Ayush Kumar, Sarah Kohail, Amit Kumar, Asif Ekbal and Chris Biemann

03:15–03:30 *LIMSI-COT at SemEval-2016 Task 12: Temporal relation identification using a pipeline of classifiers*
Julien Tourille, Olivier Ferret, Aurélie Névéol and Xavier Tannier

03:30–04:00 ***Coffee Break***

17 Jun 2016 (continued)

04:00–05:30 Poster Session: Semantic Analysis, Parsing, and Taxonomy

RIGA at SemEval-2016 Task 8: Impact of Smatch Extensions and Character-Level Neural Translation on AMR Parsing Accuracy
Guntis Barzdins and Didzis Gosko

DynamicPower at SemEval-2016 Task 8: Processing syntactic parse trees with a Dynamic Semantics core
Alastair Butler

M2L at SemEval-2016 Task 8: AMR Parsing with Neural Networks
Yevgeniy Puzikov, Daisuke Kawahara and Sadao Kurohashi

ICL-HD at SemEval-2016 Task 8: Meaning Representation Parsing - Augmenting AMR Parsing with a Preposition Semantic Role Labeling Neural Network
Lauritz Brandt, David Grimm, Mengfei Zhou and Yannick Versley

UCL+Sheffield at SemEval-2016 Task 8: Imitation learning for AMR parsing with an alpha-bound
James Goodman, Andreas Vlachos and Jason Naradowsky

CAMR at SemEval-2016 Task 8: An Extended Transition-based AMR Parser
Chuan Wang, Sameer Pradhan, Xiaoman Pan, Heng Ji and Nianwen Xue

The Meaning Factory at SemEval-2016 Task 8: Producing AMRs with Boxer
Johannes Bjerva, Johan Bos and Hessel Haagsma

UofR at SemEval-2016 Task 8: Learning Synchronous Hyperedge Replacement Grammar for AMR Parsing
Xiaochang Peng and Daniel Gildea

CLIP@UMD at SemEval-2016 Task 8: Parser for Abstract Meaning Representation using Learning to Search
Sudha Rao, Yogarshi Vyas, Hal Daumé III and Philip Resnik

17 Jun 2016 (continued)

CU-NLP at SemEval-2016 Task 8: AMR Parsing using LSTM-based Recurrent Neural Networks
William Foland and James H. Martin

CMU at SemEval-2016 Task 8: Graph-based AMR Parsing with Infinite Ramp Loss
Jeffrey Flanigan, Chris Dyer, Noah A. Smith and Jaime Carbonell

IHS-RD-Belarus at SemEval-2016 Task 9: Transition-based Chinese Semantic Dependency Parsing with Online Reordering and Bootstrapping.
Artsiom Artsymenia, Palina Dounar and Maria Yermakovich

OCLSP at SemEval-2016 Task 9: Multilayered LSTM as a Neural Semantic Dependency Parser
Lifeng Jin, Manjuan Duan and William Schuler

OSU_CHGCG at SemEval-2016 Task 9 : Chinese Semantic Dependency Parsing with Generalized Categorial Grammar
Manjuan Duan, Lifeng Jin and William Schuler

LIMSI at SemEval-2016 Task 12: machine-learning and temporal information to identify clinical events and time expressions
Cyril Grouin and Véronique MORICEAU

Hitachi at SemEval-2016 Task 12: A Hybrid Approach for Temporal Information Extraction from Clinical Notes
Sarath P R, Manikandan R and Yoshiki Niwa

CDE-IIITH at SemEval-2016 Task 12: Extraction of Temporal Information from Clinical documents using Machine Learning techniques
Veera Raghavendra Chikka

VUACLTL at SemEval 2016 Task 12: A CRF Pipeline to Clinical TempEval
Tommaso Caselli and Roser Morante

GUIR at SemEval-2016 task 12: Temporal Information Processing for Clinical Narratives
Arman Cohan, Kevin Meurer and Nazli Goharian

17 Jun 2016 (continued)

UtahBMI at SemEval-2016 Task 12: Extracting Temporal Information from Clinical Text
Abdulrahman AAl Abdulsalam, Sumithra Velupillai and Stephane Meystre

ULISBOA at SemEval-2016 Task 12: Extraction of temporal expressions, clinical events and relations using IBEnt
Marcia Barros, André Lamúrias, Gonçalo Figueiró, Marta Antunes, Joana Teixeira, Alexandre Pinheiro and Francisco M. Couto

UTA DLNLP at SemEval-2016 Task 12: Deep Learning Based Natural Language Processing System for Clinical Information Identification from Clinical Notes and Pathology Reports
Peng Li and Heng Huang

Brundlefly at SemEval-2016 Task 12: Recurrent Neural Networks vs. Joint Inference for Clinical Temporal Information Extraction
Jason Fries

KULeuven-LIIR at SemEval 2016 Task 12: Detecting Narrative Containment in Clinical Records
Artuur Leeuwenberg and Marie-Francine Moens

CENTAL at SemEval-2016 Task 12: a linguistically fed CRF model for medical and temporal information extraction
Charlotte Hansart, Damien De Meyere, Patrick Watrin, André Bittar and Cédrick Fairon

UTHealth at SemEval-2016 Task 12: an End-to-End System for Temporal Information Extraction from Clinical Notes
Hee-Jin Lee, Hua Xu, Jingqi Wang, Yaoyun Zhang, Sungrim Moon, Jun Xu and Yonghui Wu

NUIG-UNLP at SemEval-2016 Task 13: A Simple Word Embedding-based Approach for Taxonomy Extraction
Joel Pocostales

USAAR at SemEval-2016 Task 13: Hyponym Endocentricity
Liling Tan, Francis Bond and Josef van Genabith

JUNLP at SemEval-2016 Task 13: A Language Independent Approach for Hypernym Identification
Promita Maitra and Dipankar Das

17 Jun 2016 (continued)

QASSIT at SemEval-2016 Task 13: On the integration of Semantic Vectors in Pretopological Spaces for Lexical Taxonomy Acquisition
Guillaume Cleuziou and Jose G. Moreno

TAXI at SemEval-2016 Task 13: a Taxonomy Induction Method based on Lexico-Syntactic Patterns, Substrings and Focused Crawling
Alexander Panchenko, Stefano Faralli, Eugen Ruppert, Steffen Remus, Hubert Naets, Cedrick Fairon, Simone Paolo Ponzetto and Chris Biemann

Duluth at SemEval 2016 Task 14: Extending Gloss Overlaps to Enrich Semantic Taxonomies
Ted Pedersen

TALN at SemEval-2016 Task 14: Semantic Taxonomy Enrichment Via Sense-Based Embeddings
Luis Espinosa Anke, Francesco Ronzano and Horacio Saggion

MSejrKu at SemEval-2016 Task 14: Taxonomy Enrichment by Evidence Ranking
Michael Schlichtkrull and Héctor Martínez Alonso

Deftor at SemEval-2016 Task 14: Taxonomy enrichment using definition vectors
Hristo Tanev and Agata Rotondi

UMNDuluth at SemEval-2016 Task 14: WordNet's Missing Lemmas
Jon Rusert and Ted Pedersen

VCU at Semeval-2016 Task 14: Evaluating definitional-based similarity measure for semantic taxonomy enrichment
Bridget McInnes