

NAACL HLT 2018

The International Workshop on Semantic Evaluation

Proceedings of the Twelfth Workshop

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Introduction

Welcome to SemEval-2018!

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-2018 is the twelfth workshop in the series of International Workshops on Semantic Evaluation. 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-2018 were proposed in 2017.

SemEval-2018 was co-located with the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL HLT 2018) in New Orleans, Louisiana, US. It included the following 12 shared tasks organized in five tracks:

- Affect and Creative Language in Tweets
 - Task 1: Affect in Tweets
 - Task 2: Multilingual Emoji Prediction
 - Task 3: Irony Detection in English Tweets
- Coreference
 - Task 4: Character Identification on Multiparty Dialogues
 - Task 5: Counting Events and Participants within Highly Ambiguous Data covering a very long tail
- Information Extraction
 - Task 6: Parsing Time Normalizations
 - Task 7: Semantic Relation Extraction and Classification in Scientific Papers
 - Task 8: Semantic Extraction from Cybersecurity Reports using Natural Language Processing (SecureNLP)
- Lexical Semantics
 - Task 9: Hypernym Discovery
 - Task 10: Capturing Discriminative Attributes
- Reading Comprehension and Reasoning
 - Task 11: Machine Comprehension using Commonsense Knowledge
 - Task 12: Argument Reasoning Comprehension Task

This volume contains both Task Description papers that describe each of the above tasks, and System Description papers that present the systems that participated in these tasks. A total of 12 task description papers and 184 system description papers are included in this volume.

We are grateful to all task organizers as well as to the large number of participants whose enthusiastic participation has made SemEval once again a successful event. We are thankful to the task organizers who also served as area chairs, and to task organizers and participants who reviewed paper submissions. These proceedings have greatly benefited from their detailed and thoughtful feedback. We also thank the NAACL HLT 2018 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-2018 organizers, Marianna Apidianaki, Saif M. Mohammad, Jonathan May, Ekaterina Shutova, Marine Carpuat, Steven Bethard

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Invited Speaker:

Ellie Pavlick, Brown University

Invited Talk: Why should we care about linguistics?

Ellie Pavlick

(Joint Invited Speaker with *SEM 2018)

Brown University

Abstract

In just the past few months, a flurry of adversarial studies have pushed back on the apparent progress of neural networks, with multiple analyses suggesting that deep models of text fail to capture even basic properties of language, such as negation, word order, and compositionality. Alongside this wave of negative results, our field has stated ambitions to move beyond task-specific models and toward "general purpose" word, sentence, and even document embeddings. This is a tall order for the field of NLP, and, I argue, marks a significant shift in the way we approach our research. I will discuss what we can learn from the field of linguistics about the challenges of codifying all of language in a "general purpose" way. Then, more importantly, I will discuss what we cannot learn from linguistics. I will argue that the state-of-the-art of NLP research is operating close to the limits of what we know about natural language semantics, both within our field and outside it. I will conclude with thoughts on why this opens opportunities for NLP to advance both technology and basic science as it relates to language, and the implications for the way we should conduct empirical research.

Biography

Ellie Pavlick is currently a Post Doc at Google Research in NY. She will join Brown University as an Assistant Professor in July. Ellie received her PhD from University of Pennsylvania under the supervision of Chris Callison-Burch. Her current research focus is on semantics, pragmatics, and building cognitively-plausible computational models of natural language inference.

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Workshop Program

5 June 2018

09:00–09:15 *Welcome / Opening Remarks*

09:15–10:30 *Invited Talk: Why should we care about linguistics?*
Ellie Pavlick

10:30–11:00 *Coffee*

11:00–12:30 **Tasks 1, 2 and 3**

11:00–11:15 *SemEval-2018 Task 1: Affect in Tweets*
Saif Mohammad, Felipe Bravo-Marquez, Mohammad Salameh and Svetlana Kiritchenko

11:15–11:30 *SeerNet at SemEval-2018 Task 1: Domain Adaptation for Affect in Tweets*
Venkatesh Duppada, Royal Jain and Sushant Hiray

11:30–11:45 *SemEval 2018 Task 2: Multilingual Emoji Prediction*
Francesco Barbieri, Jose Camacho-Collados, Francesco Ronzano, Luis Espinosa Anke, Miguel Ballesteros, Valerio Basile, Viviana Patti and Horacio Saggion

11:45–12:00 *Tübingen-Oslo at SemEval-2018 Task 2: SVMs perform better than RNNs in Emoji Prediction*
Çağrı Çöltekin and Taraka Rama

12:00–12:15 *SemEval-2018 Task 3: Irony Detection in English Tweets*
Cynthia Van Hee, Els Lefever and Veronique Hoste

12:15–12:30 *THU_NGN at SemEval-2018 Task 3: Tweet Irony Detection with Densely connected LSTM and Multi-task Learning*
Chuhan Wu, Fangzhao Wu, Sixing Wu, Junxin Liu, Zhigang Yuan and Yongfeng Huang

12:30–14:00 *Lunch*

5 June 2018 (continued)

14:00–15:30 Tasks 4, 5 and 6

14:00–14:15 *SemEval 2018 Task 4: Character Identification on Multiparty Dialogues*

Jinho D. Choi and Henry Y. Chen

14:15–14:30 *AMORE-UPF at SemEval-2018 Task 4: BiLSTM with Entity Library*

Laura Aina, Carina Silberer, Ionut-Teodor Sorodoc, Matthijs Westera and Gemma Boleda

14:30–14:45 *SemEval-2018 Task 5: Counting Events and Participants in the Long Tail*

Marten Postma, Filip Ilievski and Piek Vossen

14:45–15:00 *KOI at SemEval-2018 Task 5: Building Knowledge Graph of Incidents*

Paramita Mirza, Fariz Darari and Rahmad Mahendra

15:00–15:15 *SemEval 2018 Task 6: Parsing Time Normalizations*

Egoitz Laparra, Dongfang Xu, Ahmed Elsayed, Steven Bethard and Martha Palmer

15:15–15:30 *Chrono at SemEval-2018 Task 6: A System for Normalizing Temporal Expressions*

Amy Olex, Luke Maffey, Nicholas Morgan and Bridget McInnes

15:30–16:00 Coffee

16:00–16:30 Discussion

5 June 2018 (continued)

16:30–17:30 Poster Session

- 16:30–17:30 *NEUROSENT-PDI at SemEval-2018 Task 1: Leveraging a Multi-Domain Sentiment Model for Inferring Polarity in Micro-blog Text*
Mauro Dragoni
- 16:30–17:30 *FOI DSS at SemEval-2018 Task 1: Combining LSTM States, Embeddings, and Lexical Features for Affect Analysis*
Maja Karasalo, Mattias Nilsson, Magnus Rosell and Ulrika Wickenberg Bolin
- 16:30–17:30 *NLPZZX at SemEval-2018 Task 1: Using Ensemble Method for Emotion and Sentiment Intensity Determination*
Zhengxin Zhang, Qimin Zhou and Hao Wu
- 16:30–17:30 *LT3 at SemEval-2018 Task 1: A classifier chain to detect emotions in tweets*
Luna De Bruyne, Orphee De Clercq and Veronique Hoste
- 16:30–17:30 *SINAI at SemEval-2018 Task 1: Emotion Recognition in Tweets*
Flor Miriam Plaza del Arco, Salud María Jiménez-Zafra, Maite Martin and L. Alfonso Urena Lopez
- 16:30–17:30 *UWB at SemEval-2018 Task 1: Emotion Intensity Detection in Tweets*
Pavel Přibáň, Tomáš Hercig and Ladislav Lenc
- 16:30–17:30 *AttnConvnet at SemEval-2018 Task 1: Attention-based Convolutional Neural Networks for Multi-label Emotion Classification*
Yanghoon Kim, Hwanhee Lee and Kyomin Jung
- 16:30–17:30 *INGEOTEC at SemEval-2018 Task 1: EvoMSA and μ TC for Sentiment Analysis*
Mario Graff, Sabino Miranda-Jiménez, Eric S. Tellez and Daniela Moctezuma
- 16:30–17:30 *Epita at SemEval-2018 Task 1: Sentiment Analysis Using Transfer Learning Approach*
Guillaume Daval-Frerot, Abdesselam Bouchekif and Anatole Moreau
- 16:30–17:30 *KDE-AFFECT at SemEval-2018 Task 1: Estimation of Affects in Tweet by Using Convolutional Neural Network for n-gram*
Masaki Aono and Shinnosuke Himeno
- 16:30–17:30 *RNN for Affects at SemEval-2018 Task 1: Formulating Affect Identification as a Binary Classification Problem*
Aysu Ezen-Can and Ethem F. Can

5 June 2018 (continued)

- 16:30–17:30 *Tw-StAR at SemEval-2018 Task 1: Preprocessing Impact on Multi-label Emotion Classification*
Hala Mulki, Chedi Bechikh Ali, Hatem Haddad and Ismail Babaoglu
- 16:30–17:30 *DL Team at SemEval-2018 Task 1: Tweet Affect Detection using Sentiment Lexicons and Embeddings*
Dmitry Kravchenko and Lidia Pivovarova
- 16:30–17:30 *EmoIntens Tracker at SemEval-2018 Task 1: Emotional Intensity Levels in #Tweets*
Ramona-Andreea Turcu, Sandra Maria Amarandei, Iuliana-Alexandra Fleşcan-Lovin-Arseni, Daniela Gifu and Diana Trandabat
- 16:30–17:30 *uOttawa at SemEval-2018 Task 1: Self-Attentive Hybrid GRU-Based Network*
Ahmed Hussein Orabi, Mahmoud Hussein Orabi, Diana Inkpen and David Van Bruwaene
- 16:30–17:30 *THU_NGN at SemEval-2018 Task 1: Fine-grained Tweet Sentiment Intensity Analysis with Attention CNN-LSTM*
Chuhan Wu, Fangzhao Wu, Junxin Liu, Zhigang Yuan, Sixing Wu and Yongfeng Huang
- 16:30–17:30 *EiTAKA at SemEval-2018 Task 1: An Ensemble of N-Channels ConvNet and XG-boost Regressors for Emotion Analysis of Tweets*
Mohammed Jabreel and Antonio Moreno
- 16:30–17:30 *CENTEMENT at SemEval-2018 Task 1: Classification of Tweets using Multiple Thresholds with Self-correction and Weighted Conditional Probabilities*
Tariq Ahmad, Allan Ramsay and Hanady Ahmed
- 16:30–17:30 *Yuan at SemEval-2018 Task 1: Tweets Emotion Intensity Prediction using Ensemble Recurrent Neural Network*
Min Wang and Xiaobing Zhou
- 16:30–17:30 *AffecThor at SemEval-2018 Task 1: A cross-linguistic approach to sentiment intensity quantification in tweets*
Mostafa Abdou, Artur Kulmizev and Joan Ginés i Ametllé
- 16:30–17:30 *Amobee at SemEval-2018 Task 1: GRU Neural Network with a CNN Attention Mechanism for Sentiment Classification*
Alon Rozental and Daniel Fleischer
- 16:30–17:30 *deepSA2018 at SemEval-2018 Task 1: Multi-task Learning of Different Label for Affect in Tweets*
Zi Yuan Gao and Chia-Ping Chen
- 16:30–17:30 *ECNU at SemEval-2018 Task 1: Emotion Intensity Prediction Using Effective Features and Machine Learning Models*
Huimin Xu, Man Lan and Yuanbin Wu

5 June 2018 (continued)

- 16:30–17:30 *EMA at SemEval-2018 Task 1: Emotion Mining for Arabic*
Gilbert Badaro, Obeida El Jundi, Alaa Khaddaj, Alaa Maarouf, Raslan Kain, Hazem Hajj and Wassim El-Hajj
- 16:30–17:30 *NTUA-SLP at SemEval-2018 Task 1: Predicting Affective Content in Tweets with Deep Attentive RNNs and Transfer Learning*
Christos Baziotis, Athanasiou Nikolaos, Alexandra Chronopoulou, Athanasia Kolovou, Georgios Paraskevopoulos, Nikolaos Ellinas, Shrikanth Narayanan and Alexandros Potamianos
- 16:30–17:30 *CrystalFeel at SemEval-2018 Task 1: Understanding and Detecting Emotion Intensity using Affective Lexicons*
Raj Kumar Gupta and Yinping Yang
- 16:30–17:30 *PlusEmo2Vec at SemEval-2018 Task 1: Exploiting emotion knowledge from emoji and #hashtags*
Ji Ho Park, Peng Xu and Pascale Fung
- 16:30–17:30 *YNU-HPCC at SemEval-2018 Task 1: BiLSTM with Attention based Sentiment Analysis for Affect in Tweets*
You Zhang, Jin Wang and Xuejie Zhang
- 16:30–17:30 *UG18 at SemEval-2018 Task 1: Generating Additional Training Data for Predicting Emotion Intensity in Spanish*
Marloes Kuijper, Mike van Lenthe and Rik van Noord
- 16:30–17:30 *ISCLAB at SemEval-2018 Task 1: UIR-Miner for Affect in Tweets*
Meng Li, Zhenyuan Dong, Zhihao Fan, Kongming Meng, Jinghua Cao, Guanqi Ding, Yuhan Liu, Jiawei Shan and Binyang Li
- 16:30–17:30 *TCS Research at SemEval-2018 Task 1: Learning Robust Representations using Multi-Attention Architecture*
Hardik Meisheri and Lipika Dey
- 16:30–17:30 *DMCB at SemEval-2018 Task 1: Transfer Learning of Sentiment Classification Using Group LSTM for Emotion Intensity prediction*
Youngmin Kim and Hyunju Lee
- 16:30–17:30 *DeepMiner at SemEval-2018 Task 1: Emotion Intensity Recognition Using Deep Representation Learning*
Habibeh Naderi, Behrouz Haji Soleimani, Saif Mohammad, Svetlana Kiritchenko and Stan Matwin
- 16:30–17:30 *Zewen at SemEval-2018 Task 1: An Ensemble Model for Affect Prediction in Tweets*
Zewen Chi, Heyan Huang, Jianguai Chen, Hao Wu and Ran Wei
- 16:30–17:30 *Amrita_student at SemEval-2018 Task 1: Distributed Representation of Social Media Text for Affects in Tweets*
Nidhin A Unnithan, Shalini K, Barathi Ganesh H. B., Anand Kumar M and Soman K P

5 June 2018 (continued)

- 16:30–17:30 *SSN MLRG1 at SemEval-2018 Task 1: Emotion and Sentiment Intensity Detection Using Rule Based Feature Selection*
Angel Deborah S, Rajalakshmi S, S Milton Rajendram and Mirnalinee T T
- 16:30–17:30 *CENNLP at SemEval-2018 Task 1: Constrained Vector Space Model in Affects in Tweets*
Naveen J R, Barathi Ganesh H. B., Anand Kumar M and Soman K P
- 16:30–17:30 *TeamCEN at SemEval-2018 Task 1: Global Vectors Representation in Emotion Detection*
Anon George, Barathi Ganesh H. B., Anand Kumar M and Soman K P
- 16:30–17:30 *IIT Delhi at SemEval-2018 Task 1 : Emotion Intensity Prediction*
Bhaskar Kotakonda, Prashanth Gowda and Brejesh Lall
- 16:30–17:30 *Mutex at SemEval-2018 Task 1: Exploring Impacts of Context Information On Emotion Detection*
Pan Du and Jian-Yun Nie
- 16:30–17:30 *TeamUNCC at SemEval-2018 Task 1: Emotion Detection in English and Arabic Tweets using Deep Learning*
Malak Abdullah and Samira Shaikh
- 16:30–17:30 *RIDDL at SemEval-2018 Task 1: Rage Intensity Detection with Deep Learning*
Venkatesh Elango and Karan Uppal
- 16:30–17:30 *ARB-SEN at SemEval-2018 Task1: A New Set of Features for Enhancing the Sentiment Intensity Prediction in Arabic Tweets*
El Moatez Billah Nagoudi
- 16:30–17:30 *psyML at SemEval-2018 Task 1: Transfer Learning for Sentiment and Emotion Analysis*
Grace Gee and Eugene Wang
- 16:30–17:30 *UIUC at SemEval-2018 Task 1: Recognizing Affect with Ensemble Models*
Abhishek Avinash Narwekar and Roxana Girju
- 16:30–17:30 *KU-MTL at SemEval-2018 Task 1: Multi-task Identification of Affect in Tweets*
Thomas Nyegaard-Signori, Casper Veistrup Helms, Johannes Bjerva and Isabelle Augenstein
- 16:30–17:30 *EmonLP at SemEval-2018 Task 2: English Emoji Prediction with Gradient Boosting Regression Tree Method and Bidirectional LSTM*
Man Liu

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- 16:30–17:30 *UMDSub at SemEval-2018 Task 2: Multilingual Emoji Prediction Multi-channel Convolutional Neural Network on Subword Embedding*
Zhenduo Wang and Ted Pedersen
- 16:30–17:30 *UMDuluth-CS8761 at SemEval-2018 Task 2: Emojis: Too many Choices?*
Jonathan Beaulieu and Dennis Asamoah Owusu
- 16:30–17:30 *The Dabblers at SemEval-2018 Task 2: Multilingual Emoji Prediction*
Larisa Alexa, Alina Lorent, Daniela Gifu and Diana Trandabat
- 16:30–17:30 *THU_NGN at SemEval-2018 Task 2: Residual CNN-LSTM Network with Attention for English Emoji Prediction*
Chuhan Wu, Fangzhao Wu, Sixing Wu, Zhigang Yuan, Junxin Liu and Yongfeng Huang
- 16:30–17:30 *#TeamINF at SemEval-2018 Task 2: Emoji Prediction in Tweets*
Alison Ribeiro and Nádia Silva
- 16:30–17:30 *EICA Team at SemEval-2018 Task 2: Semantic and Metadata-based Features for Multilingual Emoji Prediction*
Yufei Xie and Qingqing Song
- 16:30–17:30 *EmojiIt at SemEval-2018 Task 2: An Effective Attention-Based Recurrent Neural Network Model for Emoji Prediction with Characters Gated Words*
Chen Shiyun, Wang Maoquan and He Liang
- 16:30–17:30 *Peperomia at SemEval-2018 Task 2: Vector Similarity Based Approach for Emoji Prediction*
Jing Chen, Dechuan Yang, Xilian Li, Wei Chen and Tengjiao Wang
- 16:30–17:30 *ECNU at SemEval-2018 Task 2: Leverage Traditional NLP Features and Neural Networks Methods to Address Twitter Emoji Prediction Task*
Xingwu Lu, Xin Mao, Man Lan and Yuanbin Wu
- 16:30–17:30 *NTUA-SLP at SemEval-2018 Task 2: Predicting Emojis using RNNs with Context-aware Attention*
Christos Baziotis, Athanasiou Nikolaos, Athanasia Kolovou, Georgios Paraskevopoulos, Nikolaos Ellinas and Alexandros Potamianos
- 16:30–17:30 *Hatching Chick at SemEval-2018 Task 2: Multilingual Emoji Prediction*
Joël Coster, Reinder Gerard van Dalen and Nathalie Adrienne Jacqueline Stierman
- 16:30–17:30 *EPUTION at SemEval-2018 Task 2: Emoji Prediction with User Adaption*
Liyuan Zhou, Qionгкаi Xu, Hanna Suominen and Tom Gedeon

5 June 2018 (continued)

- 16:30–17:30 *PickleTeam! at SemEval-2018 Task 2: English and Spanish Emoji Prediction from Tweets*
Daphne Groot, Rémon Kruizinga, Hennie Veldthuis, Simon de Wit and Hessel Haagsma
- 16:30–17:30 *YNU-HPCC at SemEval-2018 Task 2: Multi-ensemble Bi-GRU Model with Attention Mechanism for Multilingual Emoji Prediction*
Nan Wang, Jin Wang and Xuejie Zhang
- 16:30–17:30 *DUTH at SemEval-2018 Task 2: Emoji Prediction in Tweets*
Dimitrios Effrosynidis, Georgios Peikos, Symeon Symeonidis and Avi Arampatzis
- 16:30–17:30 *TAJJEBA at SemEval-2018 Task 2: Traditional Approaches Just Do the Job with Emoji Prediction*
Angelo Basile and Kenny W. Lino
- 16:30–17:30 *SyntNN at SemEval-2018 Task 2: is Syntax Useful for Emoji Prediction? Embedding Syntactic Trees in Multi Layer Perceptrons*
Fabio Massimo Zanzotto and Andrea Santilli
- 16:30–17:30 *Duluth UROP at SemEval-2018 Task 2: Multilingual Emoji Prediction with Ensemble Learning and Oversampling*
Shuning Jin and Ted Pedersen
- 16:30–17:30 *CENNLN at SemEval-2018 Task 2: Enhanced Distributed Representation of Text using Target Classes for Emoji Prediction Representation*
Naveen J R, Hariharan V, Barathi Ganesh H. B., Anand Kumar M and Soman K P
- 16:30–17:30 *Manchester Metropolitan at SemEval-2018 Task 2: Random Forest with an Ensemble of Features for Predicting Emoji in Tweets*
Luciano Gerber and Matthew Shardlow
- 16:30–17:30 *Tweety at SemEval-2018 Task 2: Predicting Emojis using Hierarchical Attention Neural Networks and Support Vector Machine*
Daniel Kopev, Atanas Atanasov, Dimitrina Zlatkova, Momchil Hardalov, Ivan Koychev, Ivelina Nikolova and Galia Angelova
- 16:30–17:30 *LIS at SemEval-2018 Task 2: Mixing Word Embeddings and Bag of Features for Multilingual Emoji Prediction*
Gaël Guibon, Magalie Ochs and Patrice Bellot
- 16:30–17:30 *ALANIS at SemEval-2018 Task 3: A Feature Engineering Approach to Irony Detection in English Tweets*
Kevin Swanberg, Madiha Mirza, Ted Pedersen and Zhenduo Wang
- 16:30–17:30 *NEUROSENT-PDI at SemEval-2018 Task 3: Understanding Irony in Social Networks Through a Multi-Domain Sentiment Model*
Mauro Dragoni

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- 16:30–17:30 *UWB at SemEval-2018 Task 3: Irony detection in English tweets*
Tomáš Hercig
- 16:30–17:30 *NIHRIO at SemEval-2018 Task 3: A Simple and Accurate Neural Network Model for Irony Detection in Twitter*
Thanh Vu, Dat Quoc Nguyen, Xuan-Son Vu, Dai Quoc Nguyen, Michael Catt and Michael Trenell
- 16:30–17:30 *LDR at SemEval-2018 Task 3: A Low Dimensional Text Representation for Irony Detection*
Bilal Ghanem, Francisco Rangel and Paolo Rosso
- 16:30–17:30 *IIDYT at SemEval-2018 Task 3: Irony detection in English tweets*
Edison Marrese-Taylor, Suzana Ilic, Jorge Balazs, Helmut Prendinger and Yutaka Matsuo
- 16:30–17:30 *PunFields at SemEval-2018 Task 3: Detecting Irony by Tools of Humor Analysis*
Elena Mikhalkova, Yuri Karyakin, Alexander Voronov, Dmitry Grigoriev and Artem Leoznov
- 16:30–17:30 *HashCount at SemEval-2018 Task 3: Concatenative Featurization of Tweet and Hashtags for Irony Detection*
Won Ik Cho, Woo Hyun Kang and Nam Soo Kim
- 16:30–17:30 *WLV at SemEval-2018 Task 3: Dissecting Tweets in Search of Irony*
Omid Rohanian, Shiva Taslimipoor, Richard Evans and Ruslan Mitkov
- 16:30–17:30 *Random Decision Syntax Trees at SemEval-2018 Task 3: LSTMs and Sentiment Scores for Irony Detection*
Aidan San
- 16:30–17:30 *ELiRF-UPV at SemEval-2018 Tasks 1 and 3: Affect and Irony Detection in Tweets*
José-Ángel González, Lluís-F. Hurtado and Ferran Pla
- 16:30–17:30 *IronyMagnet at SemEval-2018 Task 3: A Siamese network for Irony detection in Social media*
Aniruddha Ghosh and Tony Veale
- 16:30–17:30 *CTSys at SemEval-2018 Task 3: Irony in Tweets*
Myan Sherif, Sherine Mamdouh and Wegdan Ghazi
- 16:30–17:30 *Irony Detector at SemEval-2018 Task 3: Irony Detection in English Tweets using Word Graph*
Usman Ahmed, Lubna Zafar, Faiza Qayyum and Muhammad Arshad Islam

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- 16:30–17:30 *Lancaster at SemEval-2018 Task 3: Investigating Ironic Features in English Tweets*
Edward Dearden and Alistair Baron
- 16:30–17:30 *INAOE-UPV at SemEval-2018 Task 3: An Ensemble Approach for Irony Detection in Twitter*
Delia Irazú Hernández Farías, Fernando Sánchez-Vega, Manuel Montes-y-Gómez and Paolo Rosso
- 16:30–17:30 *ECNU at SemEval-2018 Task 3: Exploration on Irony Detection from Tweets via Machine Learning and Deep Learning Methods*
Zhenghang Yin, Feixiang Wang, Man Lan and Wenting Wang
- 16:30–17:30 *KLUEnicorn at SemEval-2018 Task 3: A Naive Approach to Irony Detection*
Luise Dürlich
- 16:30–17:30 *NTUA-SLP at SemEval-2018 Task 3: Tracking Ironic Tweets using Ensembles of Word and Character Level Attentive RNNs*
Christos Baziotis, Athanasiou Nikolaos, Pinelopi Papalampidi, Athanasia Kolovou, Georgios Paraskevopoulos, Nikolaos Ellinas and Alexandros Potamianos
- 16:30–17:30 *YNU-HPCC at SemEval-2018 Task 3: Ensemble Neural Network Models for Irony Detection on Twitter*
Bo Peng, Jin Wang and Xuejie Zhang
- 16:30–17:30 *Binarizer at SemEval-2018 Task 3: Parsing dependency and deep learning for irony detection*
Nishant Nikhil and Muktabh Mayank Srivastava
- 16:30–17:30 *SSN MLRG1 at SemEval-2018 Task 3: Irony Detection in English Tweets Using MultiLayer Perceptron*
Rajalakshmi S, Angel Deborah S, S Milton Rajendram and Mirnalinee T T
- 16:30–17:30 *NLPRL-IITBHU at SemEval-2018 Task 3: Combining Linguistic Features and Emoji pre-trained CNN for Irony Detection in Tweets*
Harsh Rangwani, Devang Kulshreshtha and Anil Kumar Singh
- 16:30–17:30 *ValenTO at SemEval-2018 Task 3: Exploring the Role of Affective Content for Detecting Irony in English Tweets*
Delia Irazú Hernández Farías, Viviana Patti and Paolo Rosso
- 16:30–17:30 *#NonDicevoSulSerio at SemEval-2018 Task 3: Exploiting Emojis and Affective Content for Irony Detection in English Tweets*
Endang Wahyu Pamungkas and Viviana Patti
- 16:30–17:30 *KNU CI System at SemEval-2018 Task4: Character Identification by Solving Sequence-Labeling Problem*
Cheoneum Park, Heejun Song and Changki Lee

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- 16:30–17:30 *NewsReader at SemEval-2018 Task 5: Counting events by reasoning over event-centric-knowledge-graphs*
Piek Vossen
- 16:30–17:30 *FEUP at SemEval-2018 Task 5: An Experimental Study of a Question Answering System*
Carla Abreu and Eugénio Oliveira
- 16:30–17:30 *NAI-SEA at SemEval-2018 Task 5: An Event Search System*
Yingchi Liu, Quanzhi Li and Luo Si

6 June 2018

- 09:00–09:30 *SemEval 2019 Tasks*
- 09:30–10:30 *State of SemEval Discussion*
- 10:30–11:00 *Coffee*
- 11:00–12:30 **Tasks 7, 8 and 9**
- 11:00–11:15 *SemEval-2018 Task 7: Semantic Relation Extraction and Classification in Scientific Papers*
Kata Gábor, Davide Buscaldi, Anne-Kathrin Schumann, Behrang QasemiZadeh, Haifa Zargayouna and Thierry Charnois
- 11:15–11:30 *ETH-DS3Lab at SemEval-2018 Task 7: Effectively Combining Recurrent and Convolutional Neural Networks for Relation Classification and Extraction*
Jonathan Rotsztein, Nora Hollenstein and Ce Zhang
- 11:30–11:45 *SemEval-2018 Task 8: Semantic Extraction from CybersecUurity REports using Natural Language Processing (SecureNLP)*
Peter Phandi, Amila Silva and Wei Lu
- 11:45–12:00 *DM_NLP at SemEval-2018 Task 8: neural sequence labeling with linguistic features*
Chunping Ma, Huafei Zheng, Pengjun Xie, Chen Li, Linlin Li and Luo Si
- 12:00–12:15 *SemEval-2018 Task 9: Hypernym Discovery*
Jose Camacho-Collados, Claudio Delli Bovi, Luis Espinosa Anke, Sergio Oramas, Tommaso Pasini, Enrico Santus, Vered Shwartz, Roberto Navigli and Horacio Sag-gion

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12:15–12:30 *CRIM at SemEval-2018 Task 9: A Hybrid Approach to Hypernym Discovery*
Gabriel Bernier-Colborne and Caroline Barriere

12:30–14:00 *Lunch*

14:00–15:30 **Tasks 10, 11 and 12**

14:00–14:15 *SemEval-2018 Task 10: Capturing Discriminative Attributes*
Alicia Krebs, Alessandro Lenci and Denis Paperno

14:15–14:30 *SUNNYNLP at SemEval-2018 Task 10: A Support-Vector-Machine-Based Method for Detecting Semantic Difference using Taxonomy and Word Embedding Features*
Sunny Lai, Kwong Sak Leung and Yee Leung

14:30–14:45 *SemEval-2018 Task 11: Machine Comprehension Using Commonsense Knowledge*
Simon Ostermann, Michael Roth, Ashutosh Modi, Stefan Thater and Manfred Pinkal

14:45–15:00 *Yuanfudao at SemEval-2018 Task 11: Three-way Attention and Relational Knowledge for Commonsense Machine Comprehension*
Liang Wang, Meng Sun, Wei Zhao, Kewei Shen and Jingming Liu

15:00–15:15 *SemEval-2018 Task 12: The Argument Reasoning Comprehension Task*
Ivan Habernal, Henning Wachsmuth, Iryna Gurevych and Benno Stein

15:15–15:30 *GIST at SemEval-2018 Task 12: A network transferring inference knowledge to Argument Reasoning Comprehension task*
HongSeok Choi and Hyunju Lee

15:30–16:00 *Coffee*

16:00–16:30 *Discussion*

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16:30–17:30 Poster Session

- 16:30–17:30 *LightRel at SemEval-2018 Task 7: Lightweight and Fast Relation Classification*
Tyler Renslow and Günter Neumann
- 16:30–17:30 *OhioState at SemEval-2018 Task 7: Exploiting Data Augmentation for Relation Classification in Scientific Papers Using Piecewise Convolutional Neural Networks*
Dushyanta Dhyani
- 16:30–17:30 *The UWNLP system at SemEval-2018 Task 7: Neural Relation Extraction Model with Selectively Incorporated Concept Embeddings*
Yi Luan, Mari Ostendorf and Hannaneh Hajishirzi
- 16:30–17:30 *UC3M-NII Team at SemEval-2018 Task 7: Semantic Relation Classification in Scientific Papers via Convolutional Neural Network*
Víctor Suárez-Paniagua, Isabel Segura-Bedmar and Akiko Aizawa
- 16:30–17:30 *MIT-MEDG at SemEval-2018 Task 7: Semantic Relation Classification via Convolution Neural Network*
Di Jin, Franck Deroncourt, Elena Sergeeva, Matthew McDermott and Geeticka Chauhan
- 16:30–17:30 *SIRIUS-LTG-UiO at SemEval-2018 Task 7: Convolutional Neural Networks with Shortest Dependency Paths for Semantic Relation Extraction and Classification in Scientific Papers*
Farhad Nooralahzadeh, Lilja Øvrelid and Jan Tore Lønning
- 16:30–17:30 *IRCMS at SemEval-2018 Task 7 : Evaluating a basic CNN Method and Traditional Pipeline Method for Relation Classification*
Zhongbo Yin, Zhunchen Luo, Luo Wei, Mao Bin, Tian Changhai, Ye Yuming and Wu Shuai
- 16:30–17:30 *Bf3R at SemEval-2018 Task 7: Evaluating Two Relation Extraction Tools for Finding Semantic Relations in Biomedical Abstracts*
Mariana Neves, Daniel Butzke, Gilbert Schönfelder and Barbara Grune
- 16:30–17:30 *Texterra at SemEval-2018 Task 7: Exploiting Syntactic Information for Relation Extraction and Classification in Scientific Papers*
Andrey Sysoev and Vladimir Mayorov
- 16:30–17:30 *UniMa at SemEval-2018 Task 7: Semantic Relation Extraction and Classification from Scientific Publications*
Thorsten Keiper, Zhonghao Lyu, Sara Pooladzadeh, Yuan Xu, Jingyi Zhang, Anne Lauscher and Simone Paolo Ponzetto
- 16:30–17:30 *GU IRLAB at SemEval-2018 Task 7: Tree-LSTMs for Scientific Relation Classification*
Sean MacAvaney, Luca Soldaini, Arman Cohan and Nazli Goharian

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- 16:30–17:30 *ClaiRE at SemEval-2018 Task 7: Classification of Relations using Embeddings*
Lena Hettinger, Alexander Dallmann, Albin Zehe, Thomas Niebler and Andreas Hotho
- 16:30–17:30 *TakeLab at SemEval-2018 Task 7: Combining Sparse and Dense Features for Relation Classification in Scientific Texts*
Martin Gluhak, Maria Pia di Buono, Abbas Akkasi and Jan Šnajder
- 16:30–17:30 *NEUROSENT-PDI at SemEval-2018 Task 7: Discovering Textual Relations With a Neural Network Model*
Mauro Dragoni
- 16:30–17:30 *SciREL at SemEval-2018 Task 7: A System for Semantic Relation Extraction and Classification*
Darshini Mahendran, Chathurika Brahmana and Bridget McInnes
- 16:30–17:30 *NTNU at SemEval-2018 Task 7: Classifier Ensembling for Semantic Relation Identification and Classification in Scientific Papers*
Biswanath Barik, Utpal Kumar Sikdar and Björn Gambäck
- 16:30–17:30 *Talla at SemEval-2018 Task 7: Hybrid Loss Optimization for Relation Classification using Convolutional Neural Networks*
Bhanu Pratap, Daniel Shank, Oladipo Ositelu and Byron Galbraith
- 16:30–17:30 *TeamDL at SemEval-2018 Task 8: Cybersecurity Text Analysis using Convolutional Neural Network and Conditional Random Fields*
Manikandan R, Krishna Madgula and Snehanshu Saha
- 16:30–17:30 *HCCL at SemEval-2018 Task 8: An End-to-End System for Sequence Labeling from Cybersecurity Reports*
Mingming Fu, Xuemin Zhao and Yonghong Yan
- 16:30–17:30 *UMBC at SemEval-2018 Task 8: Understanding Text about Malware*
Ankur Padia, Arpita Roy, Taneeya Satyapanich, Francis Ferraro, Shimei Pan, Youngja Park, Anupam Joshi and Tim Finin
- 16:30–17:30 *Villani at SemEval-2018 Task 8: Semantic Extraction from Cybersecurity Reports using Representation Learning*
Pablo Loyola, Kugamoorthy Gajananan, Yuji Watanabe and Fumiko Satoh
- 16:30–17:30 *Flytxt_NTNU at SemEval-2018 Task 8: Identifying and Classifying Malware Text Using Conditional Random Fields and Naïve Bayes Classifiers*
Utpal Kumar Sikdar, Biswanath Barik and Björn Gambäck
- 16:30–17:30 *Digital Operatives at SemEval-2018 Task 8: Using dependency features for malware NLP*
Chris Brew

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- 16:30–17:30 *Apollo at SemEval-2018 Task 9: Detecting Hypernymy Relations Using Syntactic Dependencies*
Mihaela Onofrei, Ionut Hulub, Diana Trandabat and Daniela Gifu
- 16:30–17:30 *SJTU-NLP at SemEval-2018 Task 9: Neural Hypernym Discovery with Term Embeddings*
Zhuosheng Zhang, Jiangtong Li, Hai Zhao and Bingjie Tang
- 16:30–17:30 *NLP_HZ at SemEval-2018 Task 9: a Nearest Neighbor Approach*
Wei Qiu, Mosha Chen, Linlin Li and Luo Si
- 16:30–17:30 *UMDuluth-CS8761 at SemEval-2018 Task9: Hypernym Discovery using Hearst Patterns, Co-occurrence frequencies and Word Embeddings*
Arshia Zernab Hassan, Manikyha Swathi Vallabhajosyula and Ted Pedersen
- 16:30–17:30 *EXPR at SemEval-2018 Task 9: A Combined Approach for Hypernym Discovery*
Ahmad Issa Alaa Aldine, Mounira Harzallah, Giuseppe Berio, Nicolas Béchet and Ahmad Faour
- 16:30–17:30 *ADAPT at SemEval-2018 Task 9: Skip-Gram Word Embeddings for Unsupervised Hypernym Discovery in Specialised Corpora*
Alfredo Maldonado and Filip Klubička
- 16:30–17:30 *300-sparsans at SemEval-2018 Task 9: Hypernymy as interaction of sparse attributes*
Gábor Berend, Márton Makrai and Péter Földiák
- 16:30–17:30 *UWB at SemEval-2018 Task 10: Capturing Discriminative Attributes from Word Distributions*
Tomáš Brychcín, Tomáš Hercig, Josef Steinberger and Michal Konkol
- 16:30–17:30 *Meaning_space at SemEval-2018 Task 10: Combining explicitly encoded knowledge with information extracted from word embeddings*
Pia Sommerauer, Antske Fokkens and Piek Vossen
- 16:30–17:30 *GHH at SemEval-2018 Task 10: Discovering Discriminative Attributes in Distributional Semantics*
Mohammed Attia, Younes Samih, Manaal Faruqui and Wolfgang Maier
- 16:30–17:30 *CitiusNLP at SemEval-2018 Task 10: The Use of Transparent Distributional Models and Salient Contexts to Discriminate Word Attributes*
Pablo Gamallo
- 16:30–17:30 *THU_NGN at SemEval-2018 Task 10: Capturing Discriminative Attributes with MLP-CNN model*
Chuhan Wu, Fangzhao Wu, Sixing Wu, Zhigang Yuan and Yongfeng Huang

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- 16:30–17:30 *ALB at SemEval-2018 Task 10: A System for Capturing Discriminative Attributes*
Bogdan Dumitru, Alina Maria Ciobanu and Liviu P. Dinu
- 16:30–17:30 *ELiRF-UPV at SemEval-2018 Task 10: Capturing Discriminative Attributes with Knowledge Graphs and Wikipedia*
José-Ángel González, Lluís-F. Hurtado, Encarna Segarra and Ferran Pla
- 16:30–17:30 *Wolves at SemEval-2018 Task 10: Semantic Discrimination based on Knowledge and Association*
Shiva Taslimipoor, Omid Rohanian, Le An Ha, Gloria Corpas Pastor and Ruslan Mitkov
- 16:30–17:30 *UNAM at SemEval-2018 Task 10: Unsupervised Semantic Discriminative Attribute Identification in Neural Word Embedding Cones*
Ignacio Arroyo-Fernández, Ivan Meza and Carlos-Francisco Meéndez-Cruz
- 16:30–17:30 *Luminoso at SemEval-2018 Task 10: Distinguishing Attributes Using Text Corpora and Relational Knowledge*
Robert Speer and Joanna Lowry-Duda
- 16:30–17:30 *BomJi at SemEval-2018 Task 10: Combining Vector-, Pattern- and Graph-based Information to Identify Discriminative Attributes*
Enrico Santus, Chris Biemann and Emmanuele Chersoni
- 16:30–17:30 *Igevorse at SemEval-2018 Task 10: Exploring an Impact of Word Embeddings Concatenation for Capturing Discriminative Attributes*
Maxim Grishin
- 16:30–17:30 *ECNU at SemEval-2018 Task 10: Evaluating Simple but Effective Features on Machine Learning Methods for Semantic Difference Detection*
Yunxiao Zhou, Man Lan and Yuanbin Wu
- 16:30–17:30 *AmritaNLP at SemEval-2018 Task 10: Capturing discriminative attributes using convolution neural network over global vector representation.*
Vivek Vinayan, Anand Kumar M and Soman K P
- 16:30–17:30 *Discriminator at SemEval-2018 Task 10: Minimally Supervised Discrimination*
Artur Kulmizev, Mostafa Abdou, Vinit Ravishankar and Malvina Nissim
- 16:30–17:30 *UNBNLP at SemEval-2018 Task 10: Evaluating unsupervised approaches to capturing discriminative attributes*
Milton King, Ali Hakimi Parizi and Paul Cook
- 16:30–17:30 *ABDN at SemEval-2018 Task 10: Recognising Discriminative Attributes using Context Embeddings and WordNet*
Rui Mao, Guanyi Chen, Ruizhe Li and Chenghua Lin

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- 16:30–17:30 *UMD at SemEval-2018 Task 10: Can Word Embeddings Capture Discriminative Attributes?*
Alexander Zhang and Marine Carpuat
- 16:30–17:30 *NTU NLP Lab System at SemEval-2018 Task 10: Verifying Semantic Differences by Integrating Distributional Information and Expert Knowledge*
Yow-Ting Shiue, Hen-Hsen Huang and Hsin-Hsi Chen
- 16:30–17:30 *ELiRF-UPV at SemEval-2018 Task 11: Machine Comprehension using Commonsense Knowledge*
José-Ángel González, Lluís-F. Hurtado, Encarna Segarra and Ferran Pla
- 16:30–17:30 *YNU_AII799 at SemEval-2018 Task 11: Machine Comprehension using Commonsense Knowledge of Different model ensemble*
Liu Qingxun, Yao Hongdou, Zhou Xiaobing and Xie Ge
- 16:30–17:30 *YNU_Deep at SemEval-2018 Task 11: An Ensemble of Attention-based BiLSTM Models for Machine Comprehension*
Peng Ding and Xiaobing Zhou
- 16:30–17:30 *ECNU at SemEval-2018 Task 11: Using Deep Learning Method to Address Machine Comprehension Task*
Yixuan Sheng, Man Lan and Yuanbin Wu
- 16:30–17:30 *CSReader at SemEval-2018 Task 11: Multiple Choice Question Answering as Textual Entailment*
Zhengping Jiang and Qi Sun
- 16:30–17:30 *YNU-HPCC at Semeval-2018 Task 11: Using an Attention-based CNN-LSTM for Machine Comprehension using Commonsense Knowledge*
Hang Yuan, Jin Wang and Xuejie Zhang
- 16:30–17:30 *Jiangnan at SemEval-2018 Task 11: Deep Neural Network with Attention Method for Machine Comprehension Task*
Jiangnan Xia
- 16:30–17:30 *IUCM at SemEval-2018 Task 11: Similar-Topic Texts as a Comprehension Knowledge Source*
Sofia Reznikova and Leon Derczynski
- 16:30–17:30 *Lyb3b at SemEval-2018 Task 11: Machine Comprehension Task using Deep Learning Models*
Yongbin Li and Xiaobing Zhou
- 16:30–17:30 *MITRE at SemEval-2018 Task 11: Commonsense Reasoning without Commonsense Knowledge*
Elizabeth Merkhofer, John Henderson, David Bloom, Laura Strickhart and Guido Zarrella

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- 16:30–17:30 *SNU_IDS at SemEval-2018 Task 12: Sentence Encoder with Contextualized Vectors for Argument Reasoning Comprehension*
Taeuk Kim, Jihun Choi and Sang-goo Lee
- 16:30–17:30 *ITNLP-ARC at SemEval-2018 Task 12: Argument Reasoning Comprehension with Attention*
Wenjie Liu, Chengjie Sun, Lei Lin and Bingquan Liu
- 16:30–17:30 *ECNU at SemEval-2018 Task 12: An End-to-End Attention-based Neural Network for the Argument Reasoning Comprehension Task*
Junfeng Tian, Man Lan and Yuanbin Wu
- 16:30–17:30 *NLITrans at SemEval-2018 Task 12: Transfer of Semantic Knowledge for Argument Comprehension*
Timothy Niven and Hung-Yu Kao
- 16:30–17:30 *BLCU_NLP at SemEval-2018 Task 12: An Ensemble Model for Argument Reasoning Based on Hierarchical Attention*
Meiqian Zhao, Chunhua Liu, Lu Liu, Yan Zhao and Dong Yu
- 16:30–17:30 *YNU-HPCC at SemEval-2018 Task 12: The Argument Reasoning Comprehension Task Using a Bi-directional LSTM with Attention Model*
Quanlei Liao, Xutao Yang, Jin Wang and Xuejie Zhang
- 16:30–17:30 *HHU at SemEval-2018 Task 12: Analyzing an Ensemble-based Deep Learning Approach for the Argument Mining Task of Choosing the Correct Warrant*
Matthias Liebeck, Andreas Funke and Stefan Conrad
- 16:30–17:30 *YNU Deep at SemEval-2018 Task 12: A BiLSTM Model with Neural Attention for Argument Reasoning Comprehension*
Peng Ding and Xiaobing Zhou
- 16:30–17:30 *UniMelb at SemEval-2018 Task 12: Generative Implication using LSTMs, Siamese Networks and Semantic Representations with Synonym Fuzzing*
Anirudh Joshi, Tim Baldwin, Richard O. Sinnott and Cecile Paris
- 16:30–17:30 *Joker at SemEval-2018 Task 12: The Argument Reasoning Comprehension with Neural Attention*
Sui Guobin, Chao Wenhan and Luo Zhunchen
- 16:30–17:30 *TakeLab at SemEval-2018 Task 12: Argument Reasoning Comprehension with Skip-Thought Vectors*
Ana Brassard, Tin Kuculo, Filip Boltuzic and Jan Šnajder
- 16:30–17:30 *Lyb3b at SemEval-2018 Task 12: Ensemble-based Deep Learning Models for Argument Reasoning Comprehension Task*
Yongbin Li and Xiaobing Zhou

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16:30–17:30 *TRANSRW at SemEval-2018 Task 12: Transforming Semantic Representations for Argument Reasoning Comprehension*
Zhimin Chen, Wei Song and Lizhen Liu

