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Introduction

Welcome to SemEval-2020!

The Semantic Evaluation (SemEval) series of workshops focuses on the evaluation and comparison of systems that can analyze diverse semantic phenomena in text, with the aims 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-2020 is the fourteenth 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 expanding in the number of languages offered, the number of tasks, and also the number of teams participating. 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 became a yearly event. It currently takes place every year, on a two-year cycle. The tasks for SemEval-2020 were proposed in 2019, and next year’s tasks have already been selected and are underway.

SemEval-2020 was co-located (virtually) with COLING 2020 - the 28th International Conference on Computational Linguistics - on December 12 and 13, 2020. This year’s SemEval included the following 12 tasks, organized into four tracks:

- **Lexical semantics**
  - Task 1: Unsupervised Lexical Semantic Change Detection
  - Task 2: Predicting Multilingual and Cross-Lingual (Graded) Lexical Entailment
  - Task 3: Graded Word Similarity in Context

- **Common Sense Knowledge and Reasoning, Knowledge Extraction**
  - Task 4: Commonsense Validation and Explanation
  - Task 5: Modelling Causal Reasoning in Language: Detecting Counterfactuals
  - Task 6: DeftEval: Extracting Definitions from Free Text in Textbooks

- **Humour, Emphasis, and Sentiment**
  - Task 7: Assessing Humor in Edited News Headlines
  - Task 8: Memotion Analysis
  - Task 9: Sentiment Analysis for Code-Mixed Social Media Text
  - Task 10: Emphasis Selection for Written Text in Visual Media

- **Societal Applications of NLP**
  - Task 11: Detection of Propaganda Techniques in News Articles
  - Task 12: OffensEval 2: Multilingual Offensive Language Identification in Social Media

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 the tasks. A total of 12 task description papers and 288 system description papers are included in this volume.
SemEval-2020 introduced two new awards, one for organizers of a task and one for a team participating in a task. The Best Task award recognizes a task that stands out for making an important intellectual contribution to empirical computational semantics, as demonstrated by a creative, interesting, and scientifically rigorous dataset and evaluation design, and a well-written task overview paper. The Best Paper award recognizes a system description paper (written by a team participating in one of the tasks) that advances our understanding of a problem and available solutions with respect to a task. It needs not be the highest-scoring system in the task, but it must have a strong analysis component in the evaluation, as well as a clear and reproducible description of the problem, algorithms, and methodology.

2020 has been an especially challenging year across the globe, and SemEval-2020 saw its fair share of delays and unexpected changes. We are immensely grateful to the task organizers for their perseverance through many ups, downs, and uncertainties, as well as to the large number of participants whose enthusiastic participation has made SemEval once again a successful event! Thanks also to the task organizers who served as area chairs for their tasks, and to both task organizers and participants who reviewed paper submissions. These proceedings have greatly benefited from their detailed and thoughtful feedback. Thousands of thanks to our assistant organizers Shabnam Behzad and Michael Kranzlein for their extensive, detailed, and dedicated work on the production of these proceedings! We also thank the members of the program committee who reviewed the submitted task proposals and helped us to select this exciting set of tasks, and we thank the COLING 2020 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-2020 organizers: Aurelie Herbelot, Xiaodan Zhu, Alexis Palmer, Nathan Schneider, Jonathan May, Ekaterina Shutova
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Task 5: Xiaoyu Yang, Stephen Obadinma, Huasha Zhao, Qiong Zhang, Stan Matwin and Xiaodan Zhu;
Task 6: Sasha Spala, Nicholas Miller, Franck Dernoncourt and Carl Dockhorn;
Task 7: Nabil Hossain, John Krumm, Michael Gamon and Henry Kautz;
Task 8: Chhavi Sharma, Deepesh Bhageria, William Scott, Srinivas Pykl, Amitava Das, Tanmoy Chakraborty, Viswanath Pulabaigari and Björn Gambäck;
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**Invited Speaker:**

Afra Alishahi (joint invited speaker with *SEM 2020), Jackie C. K. Cheung.
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14:00–14:30 Lexical Semantics: oral session

SemEval-2020 Task 1: Unsupervised Lexical Semantic Change Detection
Dominik Schlechtweg, Barbara McGillivray, Simon Hengchen, Haim Dubossarsky and Nina Tahmasebi

SemEval-2020 Task 2: Predicting Multilingual and Cross-Lingual (Graded) Lexical Entailment
Goran Glavaš, Ivan Vulić, Anna Korhonen and Simone Paolo Ponzetto

SemEval-2020 Task 3: Graded Word Similarity in Context
Carlos Santos Armendariz, Matthew Purver, Senja Pollak, Nikola Ljubešić, Matej Ulčar, Ivan Vulić and Mohammad Taher Pilehvar

DiaSense at SemEval-2020 Task 1: Modeling Sense Change via Pre-trained BERT Embeddings
Christin Beck

BabelEncoding at SemEval-2020 Task 3: Contextual Similarity as a Combination of Multilingualism and Language Models
Lucas Rafael Costella Pessutto, Tiago de Melo, Viviane P. Moreira and Altigran da Silva

14:30–16:00 Lexical Semantics: poster session

Discovery Team at SemEval-2020 Task 1: Context-sensitive Embeddings Not Always Better than Static for Semantic Change Detection
Matej Martinc, Syrielle Montariol, Elaine Zosa and Lidia Pivovarova

GM-CTSC at SemEval-2020 Task 1: Gaussian Mixtures Cross Temporal Similarity Clustering
Pierluigi Cassotti, Annalina Caputo, Marco Polignano and Pierpaolo Basile

Jens Kaiser, Dominik Schlechtweg, Sean Papay and Sabine Schulte im Walde

JCT at SemEval-2020 Task 1: Combined Semantic Vector Spaces Models for Unsupervised Lexical Semantic Change Detection
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RIJP at SemEval-2020 Task 1: Gaussian-based Embeddings for Semantic Change Detection
Ran Iwamoto and Masahiro Yukawa
SChME at SemEval-2020 Task 1: A Model Ensemble for Detecting Lexical Semantic Change
Maurício Gruppi, Sibel Adali and Pin-Yu Chen

SenseCluster at SemEval-2020 Task 1: Unsupervised Lexical Semantic Change Detection
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The UCD-Net System at SemEval-2020 Task 1: Temporal Referencing with Semantic Network Distances
Paul Nulty and David Lillis

UiO-UvA at SemEval-2020 Task 1: Contextualised Embeddings for Lexical Semantic Change Detection
Andrey Kutuzov and Mario Giulianelli

BMEAUT at SemEval-2020 Task 2: Lexical Entailment with Semantic Graphs
Ádám Kovács, Kinga Gémes, Andras Kornai and Gábor Recski

BRUMS at SemEval-2020 Task 3: Contextualised Embeddings for Predicting the (Graded) Effect of Context in Word Similarity
Hansi Hettiarachchi and Tharindu Ranasinghe

MineriaUNAM at SemEval-2020 Task 3: Predicting Contextual WordSimilarity Using a Centroid Based Approach and Word Embeddings
Helena Gomez-Adorno, Gemma Bel-Enguix, Jorge Reyes-Magaña, Benjamín Moreno, Ramón Casillas and Daniel Vargas

MULTISEM at SemEval-2020 Task 3: Fine-tuning BERT for Lexical Meaning
Aina Garí Soler and Marianna Apidianaki

UZH at SemEval-2020 Task 3: Combining BERT with WordNet Sense Embeddings to Predict Graded Word Similarity Changes
Li Tang
Lexical Semantics: unscheduled papers

**BOS at SemEval-2020 Task 1: Word Sense Induction via Lexical Substitution for Lexical Semantic Change Detection**
Nikolay Arefyev and Vasily Zhikov

**CIRCE at SemEval-2020 Task 1: Ensembling Context-Free and Context-Dependent Word Representations**
Martin Pömsl and Roman Lyapin

**CMCE at SemEval-2020 Task 1: Clustering on Manifolds of Contextualized Embeddings to Detect Historical Meaning Shifts**
David Rother, Thomas Haider and Steffen Eger

**DCC-Uchile at SemEval-2020 Task 1: Temporal Referencing Word Embeddings**
Frank D. Zamora-Reina and Felipe Bravo-Marquez

**EmbLexChange at SemEval-2020 Task 1: Unsupervised Embedding-based Detection of Lexical Semantic Changes**
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**GloVeInit at SemEval-2020 Task 1: Using GloVe Vector Initialization for Unsupervised Lexical Semantic Change Detection**
Vaibhav Jain

**SST-BERT at SemEval-2020 Task 1: Semantic Shift Tracing by Clustering in BERT-based Embedding Spaces**
Vani Kanjirangat, Sandra Mitrovic, Alessandro Antonucci and Fabio Rinaldi

**TemporalTeller at SemEval-2020 Task 1: Unsupervised Lexical Semantic Change Detection with Temporal Referencing**
Jinan Zhou and Jiaxin LI

**TUE at SemEval-2020 Task 1: Detecting Semantic Change by Clustering Contextual Word Embeddings**
Anna Karnysheva and Pia Schwarz

**UoB at SemEval-2020 Task 1: Automatic Identification of Novel Word Senses**
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JUSTMasters at SemEval-2020 Task 3: Multilingual Deep Learning Model to Predict the Effect of Context in Word Similarity
Nour Al-khdour, Mutaz Bni Younes, Malak Abdullah and Mohammad AL-Smadi

Will_Go at SemEval-2020 Task 3: An Accurate Model for Predicting the (Graded) Effect of Context in Word Similarity Based on BERT
Wei Bao, Hongshu Che and Jiandong Zhang
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16:00–17:00 Invited talk: Afra Alishahi

17:00–17:30 Common Sense Knowledge and Reasoning, Knowledge Extraction: oral session

SemEval-2020 Task 4: Commonsense Validation and Explanation
Cunxiang Wang, Shuailong Liang, Yili Jin, Yilong Wang, Xiaodan Zhu and Yue Zhang

SemEval-2020 Task 5: Counterfactual Recognition
Xiaoyu Yang, Stephen Obadinma, Huasha Zhao, Qiong Zhang, Stan Matwin and Xiaodan Zhu

SemEval-2020 Task 6: Definition Extraction from Free Text with the DEFT Corpus
Sasha Spala, Nicholas Miller, Franck Dernoncourt and Carl Dockhorn

IIE-NLP-NUT at SemEval-2020 Task 4: Guiding PLM with Prompt Template Reconstruction Strategy for ComVE
Luxi Xing, Yuqiang Xie, Yue Hu and Wei Peng

HIT-SCIR at SemEval-2020 Task 5: Training Pre-trained Language Model with Pseudo-labeling Data for Counterfactuals Detection
Xiao Ding, Dingkui Hao, Yuewei Zhang, Kuo Liao, Zhongyang Li, Bing Qin and Ting Liu

Cardiff University at SemEval-2020 Task 6: Fine-tuning BERT for Domain-Specific Definition Classification
Shelan Jeawak, Luis Espinosa-Anke and Steven Schockaert

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17:30–19:00  Common Sense Knowledge and Reasoning, Knowledge Extraction: poster session

ANA at SemEval-2020 Task 4: MUlti-task learNing for cOmmonsense reasoニング (UNION)
Anandh Konar, Chenyang Huang, Amine Trabelsi and Osmar Zaiane

BUT-FIT at SemEval-2020 Task 4: Multilingual Commonsense
Josef Jon, Martin Fajcik, Martin Docekal and Pavel Smrz

CUHK at SemEval-2020 Task 4: CommonSense Explanation, Reasoning and Prediction with Multi-task Learning
Hongru Wang, Xiangru Tang, Sunny Lai, Kwong Sak Leung, Jia Zhu, Gabriel Pui Cheong Fung and Kam-Fai Wong

ECNU-SenseMaker at SemEval-2020 Task 4: Leveraging Heterogeneous Knowledge Resources for Commonsense Validation and Explanation
Qian Zhao, Siyu Tao, Jie Zhou, Linlin Wang, Xin Lin and Liang He

Masked Reasoner at SemEval-2020 Task 4: Fine-Tuning RoBERTa for Commonsense Reasoning
Daming Lu

QiaoNing at SemEval-2020 Task 4: Commonsense Validation and Explanation System Based on Ensemble of Language Model
Liu Pui

SWAGex at SemEval-2020 Task 4: Commonsense Explanation as Next Event Prediction
Wiem Ben Rim and Naoaki Okazaki

UoR at SemEval-2020 Task 4: Pre-trained Sentence Transformer Models for Commonsense Validation and Explanation
Thanet Markchom, Bhuvana Dhruba, Chandresh Pravin and Huizhi Liang

BUT-FIT at SemEval-2020 Task 5: Automatic Detection of Counterfactual Statements with Deep Pre-trained Language Representation Models
Martin Fajcik, Josef Jon, Martin Docekal and Pavel Smrz

CLaC at SemEval-2020 Task 5: Multi-task Stacked Bi-LSTMs
MinGyou Sung, Parsa Bagherzadeh and Sabine Bergler

CNRL at SemEval-2020 Task 5: Modelling Causal Reasoning in Language with Multi-Head Self-Attention Weights Based Counterfactual Detection
Rajaswa Patil and Veeky Baths
IITK-RSA at SemEval-2020 Task 5: Detecting Counterfactuals
Anirudh Anil Ojha, Rohin Garg, Shashank Gupta and Ashutosh Modi

Yseop at SemEval-2020 Task 5: Cascaded BERT Language Model for Counterfactu-
tual Statement Analysis
Hanna Abi-Akl, Dominique Mariko and Estelle Labidurie

ACNLP at SemEval-2020 Task 6: A Supervised Approach for Definition Extraction
Fabien Caspani, Pirashanth Ratnamogan, Mathis Linger and Mhamed Hajaiej

Gorynych Transformer at SemEval-2020 Task 6: Multi-task Learning for Definition
Extraction
Adis Davletov, Nikolay Arefyev, Alexander Shatilov, Denis Gordeev and Alexey
Rey

Common Sense Knowledge and Reasoning, Knowledge Extraction: unsched-
uled papers

CN-HIT-IT.NLP at SemEval-2020 Task 4: Enhanced Language Representation with
Multiple Knowledge Triples
Yice Zhang, Jiaxuan Lin, Yang Fan, Peng Jin, Yuanchao Liu and Bingquan Liu

CS-NET at SemEval-2020 Task 4: Siamese BERT for ComVE
Soumya Ranjan Dash, Sandeep Routray, Prateek Varshney and Ashutosh Modi

CS-NLP Team at SemEval-2020 Task 4: Evaluation of State-of-the-art NLP Deep
Learning Architectures on Commonsense Reasoning Task
Sirwe Saeedi, Aliakbar Panahi, Seyran Saeedi and Alvis C Fong

DEEPYANG at SemEval-2020 Task 4: Using the Hidden Layer State of BERT
Model for Differentiating Common Sense
Yang Bai and Xiaobing Zhou

HR@JUST Team at SemEval-2020 Task 4: The Impact of RoBERTa Transformer
for Evaluation Common Sense Understanding
Heba Al-Jarrah, Rahaf Al-Hamouri and Mohammad AL-Smadi

JBNUE at SemEval-2020 Task 4: BERT and UniLM for Commonsense Validation
and Explanation
Seung-Hoon Na and Jong-Hyeon Lee

JUSTers at SemEval-2020 Task 4: Evaluating Transformer Models against Com-
monsense Validation and Explanation
Ali Fadel, Mahmoud Al-Ayyoub and Erik Cambria
KaLM at SemEval-2020 Task 4: Knowledge-aware Language Models for Comprehension and Generation
Jiajing Wan and Xinting Huang

KDE SenseForce at SemEval-2020 Task 4: Exploiting BERT for Commonsense Validation and Explanation
Khanddorj Mendbayar and Masaki Aono

Lijunyi at SemEval-2020 Task 4: An ALBERT Model Based Maximum Ensemble with Different Training Sizes and Depths for Commonsense Validation and Explanation
Junyi Li, Bin Wang and Haiyan Ding

LMVE at SemEval-2020 Task 4: Commonsense Validation and Explanation Using Pretraining Language Model
Shilei Liu, Yu Guo, BoChao Li and Feiliang Ren

Mxgra at SemEval-2020 Task 4: Common Sense Making with Next Token Prediction
Kris Collins, Max Grathwohl and Heba Ahmed

NLP@JUST at SemEval-2020 Task 4: Ensemble Technique for BERT and Roberta to Evaluate Commonsense Validation
Emran Al-Bashabsheh, Ayah Abu Aqouleh and Mohammad AL-Smadi

SSN-NLP at SemEval-2020 Task 4: Text Classification and Generation on Common Sense Context Using Neural Networks
Rishivardhan K., Kayalvizhi S, Thenmozhi D., Raghav R. and Kshitij Sharma

Team Solomon at SemEval-2020 Task 4: Be Reasonable: Exploiting Large-scale Language Models for Commonsense Reasoning
Vertika Srivastava, Sudeep Kumar Sahoo, Yeon Hyang Kim, Rohit R.R, Mayank Raj and Ajay Jaiswal

TeamJUST at SemEval-2020 Task 4: Commonsense Validation and Explanation Using Ensembling Techniques
Roweida Mohammed and Malak Abdullah

TR at SemEval-2020 Task 4: Exploring the Limits of Language-model-based Common Sense Validation
Don Teo

UAICS at SemEval-2020 Task 4: Using a Bidirectional Transformer for Task a
Ciprian-Gabriel Cusmuliuc, Lucia-Georgiana Coca and Adrian Iftene

UI at SemEval-2020 Task 4: Commonsense Validation and Explanation by Exploiting Contradiction
Kerenza Doxolodeo and Rahmad Mahendra
Warren at SemEval-2020 Task 4: ALBERT and Multi-Task Learning for Commonsense Validation
Yuhang Wu and Hao Wu

YNU-oxz at SemEval-2020 Task 4: Commonsense Validation Using BERT with Bidirectional GRU
Xiaozhi Ou and Hongling Li

BLCU-NLP at SemEval-2020 Task 5: Data Augmentation for Efficient Counterfactual Detecting
Chang Liu and Dong Yu

BYteam at SemEval-2020 Task 5: Detecting Counterfactual Statements with BERT and Ensembles
Yang Bai and Xiaobing Zhou

Len Yabloko

Ferryman as SemEval-2020 Task 5: Optimized BERT for Detecting Counterfactuals
Weilong Chen, Yan Zhuang, Peng Wang, Feng Hong, Yan Wang and Yanru Zhang

ISCAS at SemEval-2020 Task 5: Pre-trained Transformers for Counterfactual Statement Modeling
Yaojie Lu, Annan Li, Hongyu Lin, Xianpei Han and Le Sun

Lee at SemEval-2020 Task 5: ALBERT Model Based on the Maximum Ensemble Strategy and Different Data Sampling Methods for Detecting Counterfactual Statements
Junyi Li, Yuhang Wu, Bin Wang and Haiyan Ding

NLU-Co at SemEval-2020 Task 5: NLU/SVM Based Model Apply Tocharacterise and Extract Counterfactual Items on Raw Data
Elvis Mboning Tchiaze and Damien Nouvel

Pheonix at SemEval-2020 Task 5: Masking the Labels Lubricates Models for Sequence Labeling
Pouria Babvey, Dario Borrelli, Yutong Zhao and Carlo Lipizzi

YNU-oxz at SemEval-2020 Task 5: Detecting Counterfactuals Based on Ordered Neurons LSTM and Hierarchical Attention Network
Xiaozhi Ou, Shengyan Liu and Hongling Li

BERTatDE at SemEval-2020 Task 6: Extracting Term-definition Pairs in Free Text Using Pre-trained Model
Huihui Zhang and Feiliang Ren
12/12/2020 (continued)

DeftPunk at SemEval-2020 Task 6: Using RNN-ensemble for the Sentence Classification
Jekaterina Kaparina and Anna Soboleva

Defx at SemEval-2020 Task 6: Joint Extraction of Concepts and Relations for Definition Extraction
Marc Hübner, Christoph Alt, Robert Schwarzenberg and Leonhard Hennig

DSC IIT-ISM at SemEval-2020 Task 6: Boosting BERT with Dependencies for Definition Extraction
Aadarsh Singh, Priyanshu Kumar and Aman Sinha

RGCL at SemEval-2020 Task 6: Neural Approaches to Definition Extraction
Tharindu Ranasinghe, Alistair Plum, Constantin Orasan and Ruslan Mitkov

TürKapPo at SemEval-2020 Task 6: Def(n)itely Not BERT: Definition Extraction Using pre-BERT Methods in a post-BERT World
Madeeswaran Kannan and Haemanth Santhi Ponnusamy

UNIXLONG at SemEval-2020 Task 6: A Joint Model for Definition Extraction
ShuYi Xie, Jian Ma, Haiqin Yang, Jiang Lianxin, Mo Yang and Jianping Shen

UPB at SemEval-2020 Task 6: Pretrained Language Models for Definition Extraction
Andrei-Marius Avram, Dumitru-Clementin Cercel and Costin Chiru

13/12/2020

14:00–14:30 Humour and Sentiment: oral session

SemEval-2020 Task 7: Assessing Humor in Edited News Headlines
Nabil Hossain, John Krumm, Michael Gamon and Henry Kautz

SemEval-2020 Task 8: Memotion Analysis- the Visuo-Lingual Metaphor!
Chhavi Sharma, Deepesh Bhageria, William Scott, Srinivas Pykl, Amitava Das, Tanmoy Chakraborty, Viswanath Pulabaigari and Björn Gambäck

SemEval-2020 Task 9: Overview of Sentiment Analysis of Code-Mixed Tweets
Parth Patwa, Gustavo Aguilar, Sudipta Kar, Suraj Pandey, Srinivas PYKL, Björn Gambäck, Tanmoy Chakraborty, Thamar Solorio and Amitava Das
13/12/2020 (continued)

Hitachi at SemEval-2020 Task 7: Stacking at Scale with Heterogeneous Language Models for Humor Recognition
Terufumi Morishita, Gaku Morio, Hiroaki Ozaki and Toshinori Miyoshi

SESAM at SemEval-2020 Task 8: Investigating the Relationship between Image and Text in Sentiment Analysis of Memes
Lisa Bonheme and Marek Grzes

Kk2018 at SemEval-2020 Task 9: Adversarial Training for Code-Mixing Sentiment Classification
Jiaxiang Liu, Xuyi Chen, Shikun Feng, Shuohuan Wang, Xuan Ouyang, Yu Sun, Zhengjie Huang and Weiyue Su

14:30–16:00  Humour and Sentiment: poster session

Buhsceitu at SemEval-2020 Task 7: Assessing Humour in Edited News Headlines Using Hand-Crafted Features and Online Knowledge Bases
Kristian Norgaard Jensen, Nicolaj Filrup Rasmussen, Thai Wang, Marco Placenti and Barbara Plank

Hasyarasa at SemEval-2020 Task 7: Quantifying Humor as Departure from Expectedness
Ravi Theja Desetty, Ranit Chatterjee and Smita Ghaisas

JokeMeter at SemEval-2020 Task 7: Convolutional Humor
Martin Docekal, Martin Fajcik, Josef Jon and Pavel Smrz

KDEhumor at SemEval-2020 Task 7: A Neural Network Model for Detecting Funiness in Dataset Humicroedit
Rida Miraj and Masaki Aono

LRG at SemEval-2020 Task 7: Assessing the Ability of BERT and Derivative Models to Perform Short-Edits Based Humor Grading
Siddhant Mahurkar and Rajaswa Patil

SSN_NLP at SemEval-2020 Task 7: Detecting Funniness Level Using Traditional Learning with Sentence Embeddings
Kayalvizhi S, Thenmozhi D. and Aravindan Chandrabose

YNU-HPCC at SemEval-2020 Task 7: Using an Ensemble BiGRU Model to Evaluate the Humor of Edited News Titles
Joseph Tomasulo, Jin Wang and Xuejie Zhang

DSC IIT-ISM at SemEval-2020 Task 8: Bi-Fusion Techniques for Deep Meme Emotion Analysis
Pradyumna Gupta, Himanshu Gupta and Aman Sinha

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IIITG-ADBU at SemEval-2020 Task 8: A Multimodal Approach to Detect Offensive, Sarcastic and Humorous Memes
Arup Baruah, Kaushik Das, Ferdous Barbhuiya and Kuntal Dey

NLP.UIOWA at SemEval-2020 Task 8: You're Not the Only One Cursed with Knowledge - Multi Branch Model Memotion Analysis
Ingroj Shrestha and Jonathan Rusert

NUAA-QMUL at SemEval-2020 Task 8: Utilizing BERT and DenseNet for Internet Meme Emotion Analysis
Xiaoyu Guo, Jing Ma and Arkaitz Zubiaga

PRHLT-UPV at SemEval-2020 Task 8: Study of Multimodal Techniques for Memes Analysis
Gretel Liz De la Peña Sarracén, Paolo Rosso and Anastasia Giachanou

YNU-HPCC at SemEval-2020 Task 8: Using a Parallel-Channel Model for Memotion Analysis
Li Yuan, Jin Wang and Xuejie Zhang

CS-Embed at SemEval-2020 Task 9: The Effectiveness of Code-switched Word Embeddings for Sentiment Analysis
Frances Adriana Laureano De Leon, Florimond Guéniat and Harish Tayyar Madabushi

FII-UAIC at SemEval-2020 Task 9: Sentiment Analysis for Code-Mixed Social Media Text Using CNN
Lavinia Aparaschivei, Andrei Palihovici and Daniela Gifu

HinglishNLP at SemEval-2020 Task 9: Fine-tuned Language Models for Hinglish Sentiment Detection
Meghana Bhave and Nirant Kasliwal

Jun Kong, Jin Wang and Xuejie Zhang

Arup Baruah, Kaushik Das, Ferdous Barbhuiya and Kuntal Dey

MSR India at SemEval-2020 Task 9: Multilingual Models Can Do Code-Mixing Too
Anirudh Srinivasan

Jason Angel, Segun Taofeek Aroyehun, Antonio Tamayo and Alexander Gelbukh
Palomino-Ochoa at SemEval-2020 Task 9: Robust System Based on Transformer for Code-Mixed Sentiment Classification
Daniel Palomino and José Ochoa-Luna

ULD@NUIG at SemEval-2020 Task 9: Generative Morphemes with an Attention Model for Sentiment Analysis in Code-Mixed Text
Koustava Goswami, Priya Rani, Bharathi Raja Chakrarthi, Theodorus Fransen and John P. McCrae

XLP at SemEval-2020 Task 9: Cross-lingual Models with Focal Loss for Sentiment Analysis of Code-Mixing Language
Yili Ma, Liang Zhao and Jie Hao

Humour and Sentiment: unscheduled papers

Amobee at SemEval-2020 Task 7: Regularization of Language Model Based Classifiers
Alon Rozental, Dadi Biton and Ido Blank

Duluth at SemEval-2020 Task 7: Using Surprise as a Key to Unlock Humorous Headlines
Shuning Jin, Yue Yin, XianE Tang and Ted Pedersen

ECNU at SemEval-2020 Task 7: Assessing Humor in Edited News Headlines Using BiLSTM with Attention
Tiantian Zhang, Zhixuan Chen and Man Lan

ELMo-NB at SemEval-2020 Task 7: Assessing Sense of Humor in Edited News Headlines Using ELMo and NB
Enas Khwaileh and Muntaha A. Al-As‘ad

Ferryman at SemEval-2020 Task 7: Ensemble Model for Assessing Humor in Edited News Headlines
Weilong Chen, Jipeng Li, Chenghao Huang, Wei Bai, Yanru Zhang and Yan Wang

Funny3 at SemEval-2020 Task 7: Humor Detection of Edited Headlines with LSTM and TFIDF Neural Network System
Xuefeng Luo and Kuan Tang

HumorAAC at SemEval-2020 Task 7: Assessing the Funniness of Edited News Headlines through Regression and Trump Mentions
Anna-Katharina Dick, Charlotte Weirich and Alla Kutkina

LMML at SemEval-2020 Task 7: Siamese Transformers for Rating Humor in Edited News Headlines
Pramodith Ballapuram
LT3 at SemEval-2020 Task 7: Comparing Feature-Based and Transformer-Based Approaches to Detect Funny Headlines
Bram Vanroy, Sofie Labat, Olha Kaminska, Els Lefever and Veronique Hoste

MLEngineer at SemEval-2020 Task 7: BERT-Flair Based Humor Detection Model (BFHumor)
Fara Shatnawi, Malak Abdullah and Mahmoud Hammad

Smash at SemEval-2020 Task 7: Optimizing the Hyperparameters of ERNIE 2.0 for Humor Ranking and Rating
J. A. Meaney, Steven Wilson and Walid Magdy

SO at SemEval-2020 Task 7: DeepPavlov Logistic Regression with BERT Embeddings vs SVR at Funniness Evaluation
Anita Soloveva

UniTuebingenCL at SemEval-2020 Task 7: Humor Detection in News Headlines
Charlotte Ammer and Lea Grüner

UTFPR at SemEval-2020 Task 7: Using Co-occurrence Frequencies to Capture Unexpectedness
Gustavo Henrique Paetzold

WUY at SemEval-2020 Task 7: Combining BERT and Naive Bayes-SVM for Humor Assessment in Edited News Headlines
Cheng Zhang and Hayato Yamana

XSYSIGMA at SemEval-2020 Task 7: Method for Predicting Headlines’ Humor Based on Auxiliary Sentences with EI-BERT
Jian Ma, ShuYi Xie, Meizhi Jin, Jiang Lianxin, Mo Yang and Jianping Shen

BennettNLP at SemEval-2020 Task 8: Multimodal sentiment classification Using Hybrid Hierarchical Classifier
Ambuje Gupta, Harsh Kataria, Souvik Mishra, Tapas Badal and Vipul Mishra

BERT at SemEval-2020 Task 8: Using BERT to Analyse Meme Emotions
Adithya Avvaru and Sanath Vobilisetty

CN-HIT-MI.T at SemEval-2020 Task 8: Memotion Analysis Based on BERT
Zhen Li, Yaojie Zhang, Bing Xu and Tiejun Zhao

CSECU_KDE_MA at SemEval-2020 Task 8: A Neural Attention Model for Memotion Analysis
Abu Nowshed Chy, Umme Aymun Siddiqua and Masaki Aono
Gundapusunil at SemEval-2020 Task 8: Multimodal Memotion Analysis
Sunil Gundapu and Radhika Mamidi

Guoym at SemEval-2020 Task 8: Ensemble-based Classification of Visuo-Lingual Metaphor in Memes
Yingmei Guo, Jinfu Huang, Yanlong Dong and Mingxing Xu

Hitachi at SemEval-2020 Task 8: Simple but Effective Modality Ensemble for Meme Emotion Recognition
Terufumi Morishita, Gaku Morio, Shota Horiguchi, Hiroaki Ozaki and Toshinori Miyoshi

IITK at SemEval-2020 Task 8: Unimodal and Bimodal Sentiment Analysis of Internet Memes
Vishal Keswani, Sakshi Singh, Suryansh Agarwal and Ashutosh Modi

Infotec + CentroGEO at SemEval-2020 Task 8: Deep Learning and Text Categorization approach for Memes classification
Guillermo Ruiz, Eric S. Tellez, Daniela Moctezuma, Sabino Miranda-Jiménez, Tania Ramírez-delReal and Mario Graff

KAFK at SemEval-2020 Task 8: Extracting Features from Pre-trained Neural Networks to Classify Internet Memes
Kaushik Amar Das, Arup Baruah, Ferdous Ahmed Barbhuiya and Kuntal Dey

LT3 at SemEval-2020 Task 8: Multi-Modal Multi-Task Learning for Memotion Analysis
Pranaydeep Singh, Nina Bauwelink and Els Lefever

Memebusters at SemEval-2020 Task 8: Feature Fusion Model for Sentiment Analysis on Memes Using Transfer Learning
Mayukh Sharma, Ilanthenral Kandasamy and W.B. Vasanth

MemoSYS at SemEval-2020 Task 8: Multimodal Emotion Analysis in Memes
Irina Bejan

NIT-Agartala-NLP-Team at SemEval-2020 Task 8: Building Multimodal Classifiers to Tackle Internet Humor
Steve Durairaj Swamy, Shubham Laddha, Basil Abdussalam, Debayan Datta and Anupam Jamatia

SIS@IIITH at SemEval-2020 Task 8: An Overview of Simple Text Classification Methods for Meme Analysis
Sravani Boinepelli, Manish Shrivastava and Vasudeva Varma

UI at SemEval-2020 Task 8: Text-Image Fusion for Sentiment Classification
Andi Suciati and Indra Budi
UoR at SemEval-2020 Task 8: Gaussian Mixture Modelling (GMM) Based Sampling Approach for Multi-modal Memotion Analysis
Zehao Liu, Emmanuel Osei-Brefo, Siyuan Chen and Huizhi Liang

UPB at SemEval-2020 Task 8: Joint Textual and Visual Modeling in a Multi-Task Learning Architecture for Memotion Analysis
George-Alexandru Vlad, George-Eduard Zaharia, Dumitru-Clementin Cercel, Costin Chiru and Stefan Trausan-Matu

Urszula Walińska at SemEval-2020 Task 8: Fusion of Text and Image Features Using LSTM and VGG16 for Memotion Analysis
Urszula Walińska and Jędrzej Potoniec

BAKSA at SemEval-2020 Task 9: Bolstering CNN with Self-Attention for Sentiment Analysis of Code Mixed Text
Ayush Kumar, Harsh Agarwal, Keshav Bansal and Ashutosh Modi

C1 at SemEval-2020 Task 9: SentiMix: Sentiment Analysis for Code-Mixed Social Media Text Using Feature Engineering
Laksh Advani, Clement Lu and Suraj Maharjan

Manoel Veríssimo dos Santos Neto, Ayrton Amaral, Nádia Silva and Anderson da Silva Soares

FiSSA at SemEval-2020 Task 9: Fine-tuned for Feelings
Bertelt Braaksma, Richard Scholtens, Stan van Suijlekom, Remy Wang and Ahmet Üstün

Sunil Gundapu and Radhika Mamidi

HCMS at SemEval-2020 Task 9: A Neural Approach to Sentiment Analysis for Code-Mixed Texts
Aditya Srivastava and V. Harsha Vardhan

IIT Gandhinagar at SemEval-2020 Task 9: Code-Mixed Sentiment Classification Using Candidate Sentence Generation and Selection
Vivek Srivastava and Mayank Singh

Apurva Parikh, Abhimanyu Singh Bisht and Prasenjit Majumder

IUST at SemEval-2020 Task 9: Sentiment Analysis for Code-Mixed Social Media Text Using Deep Neural Networks and Linear Baselines
Soroush Javdan, Taha Shangipour ataei and Behrouz Minaei-Bidgoli
JUNLP at SemEval-2020 Task 9: Sentiment Analysis of Hindi-English Code Mixed Data Using Grid Search Cross Validation
Avishek Garain, Sainik Mahata and Dipankar Das

LIMSI_UPV at SemEval-2020 Task 9: Recurrent Convolutional Neural Network for Code-mixed Sentiment Analysis
Somnath Banerjee, Sahar Ghannay, Sophie Rosset, Anne Vilnat and Paolo Rosso

LT3 at SemEval-2020 Task 9: Cross-lingual Embeddings for Sentiment Analysis of Hinglish Social Media Text
Pranaydeep Singh and Els Lefever

Qi Wu, Peng Wang and Chenghao Huang

NITS-Hinglish-SentiMix at SemEval-2020 Task 9: Sentiment Analysis for Code-Mixed Social Media Text Using an Ensemble Model
Subhra Jyoti Baroi, Nivedita Singh, Ringki Das and Thoudam Doren Singh

Reed at SemEval-2020 Task 9: Fine-Tuning and Bag-of-Words Approaches to Code-Mixed Sentiment Analysis
Vinay Gopalan and Mark Hopkins

Team_Swift at SemEval-2020 Task 9: Tiny Data Specialists through Domain-Specific Pre-training on Code-Mixed Data
Aditya Malte, Pratik Bhavsar and Sushant Rathi

TueMix at SemEval-2020 Task 9: Logistic Regression with Linguistic Feature Set
Elizabeth Bear, Diana Constantina Hoefels and Mihai Manolescu

George-Eduard Zaharia, George-Alexandru Vlad, Dumitru-Clementin Cercel, Traian Rebedea and Costin Chiru

Voice@SRIB at SemEval-2020 Tasks 9 and 12: Stacked Ensembling method for Sentiment and Offensiveness detection in Social Media
Abhishek Singh and Surya Pratap Singh Parmar

WESSA at SemEval-2020 Task 9: Code-Mixed Sentiment Analysis Using Transformers
Ahmed Sultan, Mahmoud Salim, Amina Gaber and Islam El Hosary

Will_go at SemEval-2020 Task 9: An Accurate Approach for Sentiment Analysis on Hindi-English Tweets Based on Bert and Pesudo Label Strategy
Wei Bao, Weilong Chen, Wei Bai, Yan Zhuang, Mingyuan Cheng and Xiangyu Ma
13/12/2020 (continued)

Zyy1510 Team at SemEval-2020 Task 9: Sentiment Analysis for Code-Mixed Social Media Text with Sub-word Level Representations
Yueying Zhu, Xiaobing Zhou, Hongling Li and Kunjie Dong

16:00–17:00 Invited talk: Jackie Cheung

17:00–17:30 Visual Media and Societal Applications: oral session

Amirreza Shirani, Franck Dernoncourt, Nedim Lipka, Paul Asente, Jose Echevarria and Thamar Solorio

IDS at SemEval-2020 Task 10: Does Pre-trained Language Model Know What to Emphasize?
Jaeyoul Shin, Taeuk Kim and Sang-goo Lee

SemEval-2020 Task 11: Detection of Propaganda Techniques in News Articles
Giovanni Da San Martino, Alberto Barrón-Cedeño, Henning Wachsmuth, Rostislav Petrov and Preslav Nakov

ApplicaAI at SemEval-2020 Task 11: On RoBERTa-CRF, Span CLS and Whether Self-Training Helps Them
Dawid Jurkiewicz, Łukasz Borchmann, Izabela Kosmala and Filip Graliński

SemEval-2020 Task 12: Multilingual Offensive Language Identification in Social Media (OffensEval 2020)
Marcos Zampieri, Preslav Nakov, Sara Rosenthal, Pepa Atanasova, Georgi Karadzhov, Hamdy Mubarak, Leon Derczynski, Zeses Pitenis and Çağrı Çöltekin

Galileo at SemEval-2020 Task 12: Multi-lingual Learning for Offensive Language Identification Using Pre-trained Language Models
Shuohuan Wang, Jiaxiang Liu, Xuan Ouyang and Yu Sun
13/12/2020 (continued)

17:30–19:00 Visual Media and Societal Applications: poster session

**ERNIE at SemEval-2020 Task 10: Learning Word Emphasis Selection by Pre-trained Language Model**
Zhengjie Huang, Shikun Feng, Weiyue Su, Xuyi Chen, Shuohuan Wang, Jiaxiang Liu, Xuan Ouyang and Yu Sun

**Aschern at SemEval-2020 Task 11: It Takes Three to Tango: RoBERTa, CRF, and Transfer Learning**
Anton Chernyavskiy, Dmitry Ilvovsky and Preslav Nakov

**CyberWallE at SemEval-2020 Task 11: An Analysis of Feature Engineering for Ensemble Models for Propaganda Detection**
Verena Blaschke, Maxim Korniyenko and Sam Tureski

**Inno at SemEval-2020 Task 11: Leveraging Pure Transformer for Multi-Class Propaganda Detection**
Dmitry Grigorev and Vladimir Ivanov

**NoPropaganda at SemEval-2020 Task 11: A Borrowed Approach to Sequence Tagging and Text Classification**
Ilya Dimov, Vladislav Kozun and Ivan Smurov

**NTUAAILS at SemEval-2020 Task 11: Propaganda Detection and Classification with biLSTMs and ELMo**
Anastasios Arsenos and Georgios Siolas

**Team DoNotDistribute at SemEval-2020 Task 11: Features, Fine-tuning, and Data Augmentation in Neural Models for Propaganda Detection in News Articles**
Michael Kranzlein, Shabnam Behzad and Nazli Goharian

**YNU-HPCC at SemEval-2020 Task 11: LSTM Network for Detection of Propaganda Techniques in News Articles**
Jiaxu Dao, Jin Wang and Xuejie Zhang

**AdelaideCyC at SemEval-2020 Task 12: Ensemble of Classifiers for Offensive Language Detection in Social Media**
Mahen Herath, Thushari Atapattu, Hoang Anh Dung, Christoph Treude and Katrina Falkner

**ANDES at SemEval-2020 Task 12: A Jointly-trained BERT Multilingual Model for Offensive Language Detection**
Juan Manuel Pérez, Aymé Arango and Franco Luque

**BhamNLP at SemEval-2020 Task 12: An Ensemble of Different Word Embeddings and Emotion Transfer Learning for Arabic Offensive Language Identification in Social Media**
Abdullah I. Alharbi and Mark Lee
FBK-DH at SemEval-2020 Task 12: Using Multi-channel BERT for Multilingual Offensive Language Detection
Camilla Casula, Alessio Palmero Aprosio, Stefano Menini and Sara Tonelli

GruPaTo at SemEval-2020 Task 12: Retraining mBERT on Social Media and Fine-tuned Offensive Language Models
Davide Colla, Tommaso Caselli, Valerio Basile, Jelena Mitrović and Michael Granitzer

GUIR at SemEval-2020 Task 12: Domain-Tuned Contextualized Models for Offensive Language Detection
Sajad Sotudeh, Tong Xiang, Hao-Ren Yao, Sean MacAvaney, Eugene Yang, Nazli Goharian and Ophir Frieder

IIITG-ADBU at SemEval-2020 Task 12: Comparison of BERT and BiLSTM in Detecting Offensive Language
Arup Baruah, Kaushik Das, Ferdous Barbhuiya and Kuntal Dey

LT@Helsinki at SemEval-2020 Task 12: Multilingual or Language-specific BERT?
Marc Pàmies, Emily Öhman, Kaisla Kajava and Jörg Tiedemann

NLPDove at SemEval-2020 Task 12: Improving Offensive Language Detection with Cross-lingual Transfer
Hwijeen Ahn, Jimin Sun, Chan Young Park and Jungyun Seo

Susan Wang and Zita Marinho

NUIG at SemEval-2020 Task 12: Pseudo Labelling for Offensive Content Classification
Shardul Suryawanshi, Mihael Arcan and Paul Buitelaar

PRHLT-UPV at SemEval-2020 Task 12: BERT for Multilingual Offensive Language Detection
Gretel Liz De la Peña Sarracén and Paolo Rosso

PUM at SemEval-2020 Task 12: Aggregation of Transformer-based Models’ Features for Offensive Language Recognition
Piotr Janiszewski, Mateusz Skiba and Urszula Walińska

SINAI at SemEval-2020 Task 12: Offensive Language Identification Exploring Transfer Learning Models
Flor Miriam Plaza del Arco, M. Dolores Molina González, Alfonso Ureña-López and Maite Martin

Team Oulu at SemEval-2020 Task 12: Multilingual Identification of Offensive Language, Type and Target of Twitter Post Using Translated Datasets
Md Saroor Jahan
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FPAI at SemEval-2020 Task 10: A Query Enhanced Model with RoBERTa for Emphasis Selection
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Hitachi at SemEval-2020 Task 10: Emphasis Distribution Fusion on Fine-Tuned Language Models
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IITK at SemEval-2020 Task 10: Transformers for Emphasis Selection
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LAST at SemEval-2020 Task 10: Finding Tokens to Emphasise in Short Written Texts with Precomputed Embedding Models and LightGBM
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MIDAS at SemEval-2020 Task 10: Emphasis Selection Using Label Distribution Learning and Contextual Embeddings
Sarthak Anand, Pradyumna Gupta, Hemant Yadav, Debanjan Mahata, Rakesh Gosangi, Haimin Zhang and Rajiv Ratn Shah

Aleksandr Shatilov, Denis Gordeev and Alexey Rey

Zhishen Yang, Lars Wolfsteller and Naoaki Okazaki

TeXmarkers at SemEval-2020 Task 10: Emphasis Selection with Agreement Dependent Crowd Layers
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YNU-HPCC at SemEval-2020 Task 10: Using a Multi-granularity Ordinal Classification of the BiLSTM Model for Emphasis Selection
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3218IR at SemEval-2020 Task 11: Conv1D and Word Embedding in Propaganda Span Identification at News Articles
Dimas Sony Dewantara, Indra Budi and Muhammad Okky Ibrohim

BPGC at SemEval-2020 Task 11: Propaganda Detection in News Articles with Multi-Granularity Knowledge Sharing and Linguistic Features Based Ensemble Learning
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DUTH at SemEval-2020 Task 11: BERT with Entity Mapping for Propaganda Classification
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JUST at SemEval-2020 Task 11: Detecting Propaganda Techniques Using BERT Pre-trained Model
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LTI at CMU at SemEval-2020 Task 11: Incorporating Multi-Level Features for Multi-Granular Propaganda Span Identification
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Paramansh Singh, Siraj Sandhu, Subham Kumar and Ashutosh Modi

NLFIIT at SemEval-2020 Task 11: Neural Network Architectures for Detection of Propaganda Techniques in News Articles
Matej Martinkovic, Samuel Pecar and Marian Simko

PsuedoProp at SemEval-2020 Task 11: Propaganda Span Detection Using BERT-CRF and Ensemble Sentence Level Classifier
Aniruddha Chauhan and Harshita Diddee

SkoltechNLP at SemEval-2020 Task 11: Exploring Unsupervised Text Augmentation for Propaganda Detection
Daryna Dementieva, Igor Markov and Alexander Panchenko

SocCogCom at SemEval-2020 Task 11: Characterizing and Detecting Propaganda Using Sentence-Level Emotional Salience Features
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syrapropa at SemEval-2020 Task 11: BERT-based Models Design for Propagandistic Technique and Span Detection
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Transformers at SemEval-2020 Task 11: Propaganda Fragment Detection Using Diversified BERT Architectures Based Ensemble Learning
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UNTLing at SemEval-2020 Task 11: Detection of Propaganda Techniques in English News Articles
Maia Petee and Alexis Palmer

UPB at SemEval-2020 Task 11: Propaganda Detection with Domain-Specific Trained BERT
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UTMN at SemEval-2020 Task 11: A Kitchen Solution to Automatic Propaganda Detection
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ALT at SemEval-2020 Task 12: Arabic and English Offensive Language Identification in Social Media
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Amsqr at SemEval-2020 Task 12: Offensive Language Detection Using Neural Networks and Anti-adversarial Features
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BRUMS at SemEval-2020 Task 12: Transformer Based Multilingual Offensive Language Identification in Social Media
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CoLi at UdS at SemEval-2020 Task 12: Offensive Tweet Detection with Ensembling
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CyberTronics at SemEval-2020 Task 12: Multilingual Offensive Language Identification over Social Media
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DoTheMath at SemEval-2020 Task 12: Deep Neural Networks with Self Attention for Arabic Offensive Language Detection
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Garain at SemEval-2020 Task 12: Sequence Based Deep Learning for Categorizing Offensive Language in Social Media
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Hitachi at SemEval-2020 Task 12: Offensive Language Identification with Noisy Labels Using Statistical Sampling and Post-Processing
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I2C at SemEval-2020 Task 12: Simple but Effective Approaches to Offensive Speech Detection in Twitter
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IITP-AINLPML at SemEval-2020 Task 12: Offensive Tweet Identification and Target Categorization in a Multitask Environment
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IRLab@IITV at SemEval-2020 Task 12: Multilingual Offensive Language Identification in Social Media Using SVM
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JCT at SemEval-2020 Task 12: Offensive Language Detection in Tweets Using Preprocessing Methods, Character and Word N-grams
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KEIS@JUST at SemEval-2020 Task 12: Identifying Multilingual Offensive Tweets Using Weighted Ensemble and Fine-Tuned BERT
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UPB at SemEval-2020 Task 12: Multilingual Offensive Language Detection on Social Media by Fine-tuning a Variety of BERT-based Models
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