Introduction

Welcome to SemEval-2022!

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-2022 is the sixteenth 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-2022 were proposed in 2021, and next year’s tasks have already been selected and are underway.

SemEval-2022 is co-located (hybrid) with The 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-2022) on July 14 - 15. This year’s SemEval included the following 12 tasks:

- **Lexical semantics**
  - Task 1: CODWOE - COmparing Dictionaries and WOrd Embeddings
  - Task 2: Multilingual Idiomaticity Detection and Sentence Embedding
  - Task 3: Presupposed Taxonomies - Evaluating Neural-network Semantics (PreTENS)

- **Social factors & attitudes**
  - Task 4: Patronizing and Condescending Language Detection
  - Task 5: MAMI - Multimedia Automatic Misogyny Identification
  - Task 6: iSarcasmEval - Intended Sarcasm Detection in English and Arabic

- **Discourse, documents, and multimodality**
  - Task 7: Identifying Plausible Clarifications of Implicit and Underspecified Phrases in Instructional Texts
  - Task 8: Multilingual news article similarity
  - Task 9: R2VQ - Competence-based Multimodal Question Answering

- **Information extraction**
  - Task 10: Structured Sentiment Analysis
  - Task 11: MultiCoNER - Multilingual Complex Named Entity Recognition
  - Task 12: Symlink - Linking Mathematical Symbols to their Descriptions
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 221 system description papers are included in this volume.

SemEval-2022 features two 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 need 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.

2022 has been another particularly challenging year across the globe. 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 Siddharth Singh and Shyam Ratan 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 NAACL 2022 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-2022 organizers: Guy Emerson, Natalie Schluter, Gabriel Stanovsky, Ritesh Kumar, Alexis Palmer, and Nathan Schneider
Organizing Committee

SemEval Organizers:
- Guy Emerson, Cambridge University
- Natalie Schluter, IT University Copenhagen
- Gabriel Stanovsky, The Hebrew University of Jerusalem
- Ritesh Kumar, Dr. Bhimrao Ambedkar University
- Alexis Palmer, University of Colorado Boulder
- Nathan Schneider, Georgetown University

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- Task 2: Harish Tayyar Madabushi, Marcos Garcia, Carolina Scarton, Marco Idiart, Aline Villavicencio
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- Task 4: Carla Perez-Almendros, Luis Espinosa-Anke, Steven Schockaert
- Task 5: Elisabetta Fersini, Paolo Rosso, Francesca Gasparini, Alyssa Lees, Jeffrey Sorensen
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- Task 7: Michael Roth, Talita Kloppenburg-Anthonio, Anna Sauer
- Task 9: James Pustejovsky, Jingxuan Tu, Marco Maru, Simone Conia, Roberto Navigli, Kyeongmin Rim, Kelley Lynch, Richard Brutti, Eben Holderness
- Task 10: Jeremy Barnes, Andrey Kutuzov, Jan Buchmann, Laura Ana Maria Oberländer, Enrica Troiano, Rodrigo Agerrri, Lilja Övrelid, Erik Velldal, Stephan Oepen
- Task 11: Shervin Malmasi, Besnik Feta, Anjie Fang, Sudipta Kar, Oleg Rokhlenko
- Task 12: Viet Dac Lai, Amir Ben Veyseh, Thien Huy Nguyen, Franck Dernoncourt

Invited Speakers:
- Allyson Ettinger, University of Chicago (shared speaker with *SEM)
- Alane Suhr, Cornell University
Program Committee

Task Selection Committee:

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# Table of Contents

**Semeval-2022 Task 1: CODWOE – Comparing Dictionaries and Word Embeddings**  
Timothee Mickus, Kees Van Deemter, Mathieu Constant and Denis Paperno .......................... 1

**1Cademy at Semeval-2022 Task 1: Investigating the Effectiveness of Multilingual, Multitask, and Language-Agnostic Tricks for the Reverse Dictionary Task**  
Zhiyong Wang, Ge Zhang and Nineli Lashkarashvili ...................................................... 15

**BLCU-ICALL at SemEval-2022 Task 1: Cross-Attention Multitasking Framework for Definition Modeling**  
Cunliang Kong, Yujie Wang, Ruining Chong, Liner Yang, Hengyuan Zhang, Erhong Yang and Yaping Huang .......................................................... 23

**LingJing at SemEval-2022 Task 1: Multi-task Self-supervised Pre-training for Multilingual Reverse Dictionary**  
Bin Li, Yixuan Weng, Fei Xia, Shizhu He, Bin Sun and Shutao Li ...................................... 29

**IRB-NLP at SemEval-2022 Task 1: Exploring the Relationship Between Words and Their Semantic Representations**  
Damir Korenčič and Ivan Grubisic ...................................................................................... 36

**TLDR at SemEval-2022 Task 1: Using Transformers to Learn Dictionaries and Representations**  
Aditya Srivastava and Harsha Vardhan Vemulapati ............................................................ 60

**MMG at SemEval-2022 Task 1: A Reverse Dictionary approach based on a review of the dataset from a lexicographic perspective**  
Alfonso Ardoiz, Miguel Ortega-Martín, Óscar García-Sierra, Jorge Álvarez, Ignacio Arranz and Adrián Alonso ................................................................. 68

**Edinburgh at SemEval-2022 Task 1: Jointly Fishing for Word Embeddings and Definitions**  
Pinzhen Chen and Zheng Zhao .......................................................................................... 75

**RIGA at SemEval-2022 Task 1: Scaling Recurrent Neural Networks for CODWOE Dictionary Modeling**  
Eduards Mukans, Gus Strazds and Guntis Barzdins .......................................................... 82

**Uppsala University at SemEval-2022 Task 1: Can Foreign Entries Enhance an English Reverse Dictionary?**  
Rafal Cerniavski and Sara Stymne .................................................................................... 88

**BL.Research at SemEval-2022 Task 1: Deep networks for Reverse Dictionary using embeddings and LSTM autoencoders**  
Nihed Bendahman, Julien Breton, Lina Nicolaieff, Mokhtar Boumedyuen Billami, Christophe Bortolaso and Yousef Miloudi ................................................................. 94

**JSI at SemEval-2022 Task 1: CODWOE - Reverse Dictionary: Monolingual and cross-lingual approaches**  
Thi Hong Hanh Tran, Matej Martinc, Matthew Purver and Senja Pollak .......................... 101

**SemEval-2022 Task 2: Multilingual Idiomaticity Detection and Sentence Embedding**  
Harish Tayyar Madabushi, Edward Gow-Smith, Marcos Garcia, Carolina Scarton, Marco Idiart and Aline Villavicencio ......................................................... 107

**Helsinki-NLP at SemEval-2022 Task 2: A Feature-Based Approach to Multilingual Idiomaticity Detection**  
Sami Itkonen, Jörg Tiedemann and Mathias Creutz ......................................................... 122
Hitachi at SemEval-2022 Task 2: On the Effectiveness of Span-based Classification Approaches for Multilingual Idiomaticity Detection
Atsuki Yamaguchi, Gaku Morio, Hiroaki Ozaki and Yasuhiro Sogawa .............................. 135

UAlberta at SemEval 2022 Task 2: Leveraging Glosses and Translations for Multilingual Idiomaticity Detection
Bradley Hauer, Seeratpal Jaura, Talgat Omarov and Grzegorz Kondrak ............................... 145

HYU at SemEval-2022 Task 2: Effective Idiomaticity Detection with Consideration at Different Levels of Contextualization
Youngju Joung and Taeuk Kim .......................................................................................... 151

drsphelps at SemEval-2022 Task 2: Learning idiom representations using BERTRAM
Dylan Phelps .................................................................................................................. 158

JARVix at SemEval Task 2: It Takes One to Know One? Idiomaticity Detection using Zero and One-Shot Learning
Yash Jakhotiya, Vaibhav Kumar, Ashwin Pathak and Raj Sanjay Shah .............................. 165

Joanne Boisson, Jose Camacho-Collados and Luis Espinosa-Anke ................................. 169

kpfriends at SemEval-2022 Task 2: NEAMER - Named Entity Augmented Multi-word Expression Recognizer
Min Sik Oh ..................................................................................................................... 178

daminglu123 at SemEval-2022 Task 2: Using BERT and LSTM to Do Text Classification
Daming Lu ..................................................................................................................... 186

HiJoNLP at SemEval-2022 Task 2: Detecting Idiomaticity of Multiword Expressions using Multilingual Pretrained Language Models
Minghuan Tan ............................................................................................................... 190

ZhichunRoad at SemEval-2022 Task 2: Adversarial Training and Contrastive Learning for Multiword Representations
Xuange Cui, Wei Xiong and Songlin Wang ...................................................................... 197

NER4ID at SemEval-2022 Task 2: Named Entity Recognition for Idiomaticity Detection
Simone Tedeschi and Roberto Navigli .......................................................................... 204

YNU-HPCC at SemEval-2022 Task 2: Representing Multilingual Idiomaticity based on Contrastive Learning
Kuanghong Liu, Jin Wang and Xuejie Zhang .................................................................. 211

OCHADAI at SemEval-2022 Task 2: Adversarial Training for Multilingual Idiomaticity Detection
Lis Pereira and Ichiro Kobayashi ................................................................................. 217

HIT at SemEval-2022 Task 2: Pre-trained Language Model for Idioms Detection
Zheng Chu, Ziqing Yang, Yiming Cui, Zhigang Chen and Ming Liu ............................ 221

SemEval-2022 Task 3: PreTENS-Evaluating Neural Networks on Presuppositional Semantic Knowledge
Roberto Zamparelli, Shammur Absar Chowdhury, Dominique Brunato, Cristiano Chesi, Felice Dell’Orletta, Md. Arid Hasan and Giulia Venturi ................................................. 228
LingJing at SemEval-2022 Task 3: Applying DeBERTa to Lexical-level Presupposed Relation Taxonomy with Knowledge Transfer
Fei Xia, Bin Li, Yixuan Weng, Shizhu He, Bin Sun, Shutao Li, Kang Liu and Jun Zhao ... 239

RUG-1-Pegasussers at SemEval-2022 Task 3: Data Generation Methods to Improve Recognizing Appropriate Taxonomic Word Relations
Wessel Poelman, Gijs Danoe, Esther Ploeger, Frank van den Berg, Tommaso Caselli and Lukas Edman ................................................................. 247

CSECU-DSG at SemEval-2022 Task 3: Investigating the Taxonomic Relationship Between Two Arguments using Fusion of Multilingual Transformer Models
Abdul Aziz, Md. Akram Hossain and Abu Noushed Chy ....................................................... 255

UoR-NCL at SemEval-2022 Task 3: Fine-Tuning the BERT-Based Models for Validating Taxonomic Relations
Thanet Markchom, Huizhi Liang and Jiaoyan Chen .............................................................. 260

SPDB Innovation Lab at SemEval-2022 Task 3: Recognize Appropriate Taxonomic Relations Between Two Nominal Arguments with ERNIE-M Model
Yue Zhou, Bowei Wei, Jianyu Liu and Yang Yang ................................................................. 266

UU-Tax at SemEval-2022 Task 3: Improving the generalizability of language models for taxonomy classification through data augmentation
Injy Sarhan, Pablo Mosteiro and Marco Spruit ................................................................. 271

KaMiKla at SemEval-2022 Task 3: ALBERTo, BERT, and CamemBERT—Be(r)tween Taxonomy Detection and Prediction
Karl Vetter, Miriam Segiet and Klara Lennermann ............................................................. 282

HW-TSC at SemEval-2022 Task 3: A Unified Approach Fine-tuned on Multilingual Pretrained Model for PreTENS
Yinglu Li, Min Zhang, Xiaosong Qiao and Minghan Wang .................................................. 291

SemEval-2022 Task 4: Patronizing and Condescending Language Detection
Carla Perez-Almendros, Luis Espinosa-Anke and Steven Schockaert .................................. 298

Mohammad Makahleh, Naba Bani Yaseen and Malak AG Abdullah .................................. 308

PINGAN Omini-Sinitic at SemEval-2022 Task 4: Multi-prompt Training for Patronizing and Condescending Language Detection
Ye Wang, Yanneng Wang, Baishun Ling, Zexiang Liao, Shaojun Wang and Jing Xiao ...... 313

BEIKE NLP at SemEval-2022 Task 4: Prompt-Based Paragraph Classification for Patronizing and Condescending Language Detection
Yong Deng, Chenxiao Dou, Liangyu Chen, Deqiang Miao, Xianghui Sun, Baochang Ma and Xiangang Li ................................................................. 319

DH-FBK at SemEval-2022 Task 4: Leveraging Annotators’ Disagreement and Multiple Data Views for Patronizing Language Detection
Alan Ramponi and Elisa Leonardelli ................................................................. 324

PALI-NLP at SemEval-2022 Task 4: Discriminative Fine-tuning of Transformers for Patronizing and Condescending Language Detection
Dou Hu, Zhou Mengyuan, Xiyang Du, Mengfei Yuan, Jin Mei Zhi, Lianxin Jiang, Mo Yang and Xiaofeng Shi .................................................. 335
ASRtrans at SemEval-2022 Task 4: Ensemble of Tuned Transformer-based Models for PCL Detection
Ailneni Rakshitha Rao ................................................................. 344

LastResort at SemEval-2022 Task 4: Towards Patronizing and Condescending Language Detection using Pre-trained Transformer Based Models Ensembles
Samyak Agrawal and Radhika Mamidi ........................................ 352

Felix&Julia at SemEval-2022 Task 4: Patronizing and Condescending Language Detection
Felix Herrmann and Julia Krebs ................................................. 357

MS@IW at SemEval-2022 Task 4: Patronising and Condescending Language Detection with Synthetically Generated Data
Selina Meyer, Maximilian Christian Schmidhuber and Udo Kruschwitz .................... 363

Team LEGO at SemEval-2022 Task 4: Machine Learning Methods for PCL Detection
Abhishek Kumar Singh ............................................................... 369

RNRE-NLP at SemEval-2022 Task 4: Patronizing and Condescending Language Detection
Rylan Yang, Ethan A Chi and Nathan Andrew Chi .......................... 374

UTSA NLP at SemEval-2022 Task 4: An Exploration of Simple Ensembles of Transformers, Convolutional, and Recurrent Neural Networks
Xingmeng Zhao and Anthony Rios .............................................. 379

Ali Edalat, Yadollah Yaghoobzadeh and Behnam Bahrak ..................... 387

Tesla at SemEval-2022 Task 4: Patronizing and Condescending Language Detection using Transformer-based Models with Data Augmentation
Sahil Manoj Bhatt and Manish Shrivastava .................................. 394

SSN_NLP_MLRG at SemEval-2022 Task 4: Ensemble Learning strategies to detect Patronizing and Condescending Language
Kalaivani Adaikkan and Thenmozhi Durairaj .................................. 400

Sapphire at SemEval-2022 Task 4: A Patronizing and Condescending Language Detection Model Based on Capsule Networks
Sihui Li and Xiaobing Zhou ......................................................... 405

McRock at SemEval-2022 Task 4: Patronizing and Condescending Language Detection using Multi-Channel CNN, Hybrid LSTM, DistilBERT and XLNet
Marco Siino, Marco La Cascia and Ilenia Tinnirello .......................... 409

Team Stanford ACMLab at SemEval 2022 Task 4: Textual Analysis of PCL Using Contextual Word Embeddings
Upamanyu Dass-Vattam, Spencer Wallace, Rohan Sikand, Zach Witzel and Jillian Tang .... 418

Team LRL_NC at SemEval-2022 Task 4: Binary and Multi-label Classification of PCL using Fine-tuned Transformer-based Models
Kushagri Tandon and Niladri Chatterjee ...................................... 421

GUTS at SemEval-2022 Task 4: Adversarial Training and Balancing Methods for Patronizing and Condescending Language Detection
Junyu Lu, Hao Zhang, Tongyue Zhang, Hongbo Wang, Haozhao Zhu, Bo Xu and Hongfei Lin 432
HITMI&T at SemEval-2022 Task 4: Investigating Task-Adaptive Pretraining And Attention Mechanism On PCL Detection
Zihang Liu, Yancheng He, Feiqing Zhuang and Bing Xu ................................. 438

UMass PCL at SemEval-2022 Task 4: Pre-trained Language Model Ensembles for Detecting Patronizing and Condescending Language
David Koleczek, Alexander Scarlotos, Preshma Linet Pereira and Siddha Makarand Karkare 445

YNU-HPCC at SemEval-2022 Task 4: Finetuning Pretrained Language Models for Patronizing and Condescending Language Detection
Wenqiang Bai, Jin Wang and Xuejie Zhang ................................. 454

Laura Vázquez Ramos, Adrián Moreno Monterde, Victoria Pachón and Jacinto Mata 459

PiCkLe at SemEval-2022 Task 4: Boosting Pre-trained Language Models with Task Specific Metadata and Cost Sensitive Learning
Manan Suri ................................................................. 464

ML_LTU at SemEval-2022 Task 4: T5 Towards Identifying Patronizing and Condescending Language
Tosin Adewumi, Lama Alkhaled, Hamam Mokayed, Fotelini Liwicki and Marcus Liwicki ... 473

Xu at SemEval-2022 Task 4: Pre-BERT Neural Network Methods vs Post-BERT RoBERTa Approach for Patronizing and Condescending Language Detection
Jinghua Xu ................................................................. 479

Amsqr at SemEval-2022 Task 4: Towards AutoNLP via Meta-Learning and Adversarial Data Augmentation for PCL Detection
Alejandro Mosquera ......................................................... 485

SATLab at SemEval-2022 Task 4: Trying to Detect Patronizing and Condescending Language with only Character and Word N-grams
Yves Bestgen ................................................................. 490

Taygete at SemEval-2022 Task 4: RoBERTa based models for detecting Patronising and Condescending Language
Jayant Chhillar ................................................................. 496

CS/NLP at SemEval-2022 Task 4: Effective Data Augmentation Methods for Patronizing Language Detection and Multi-label Classification with RoBERTa and GPT3
Daniel Saeedi, Sirwe Saeedi, Aliakbar Panahi and Alvis C.M. Fong ......................... 503

University of Bucharest Team at SemEval-2022 Task4: Detection and Classification of Patronizing and Condescending Language
Tudor Dumitrascu, Raluca-Andreea Ginga, Bogdan Dobre and Bogdan Radu Silviu Sielecki 509

Amrita_CEN at SemEval-2022 Task 4: Oversampling-based Machine Learning Approach for Detecting Patronizing and Condescending Language
Bichu George, Adarsh S, Nishitkumar Prajapati, Premjith B and Soman KP .................. 515

JCT at SemEval-2022 Task 4-A: Patronism Detection in Posts Written in English using Preprocessing Methods and various Machine Learning Methods
Yaakov HaCohen-Kerner, Ilan Meyrowitsch and Matan Fchima ......................... 519
ULFRI at SemEval-2022 Task 4: Leveraging uncertainty and additional knowledge for patronizing and condescending language detection
Matej Klemen and Marko Robnik-Šikonja ......................................................... 525

SemEval-2022 Task 5: Multimedia Automatic Misogyny Identification
Elisabetta Fersini, Francesca Gasparini, Giulia Rizzi, Aurora Saibene, Berta Chulvi, Paolo Rosso, Alyssa Lees and Jeffrey S. Sorensen ................................................................. 533

Transformers at SemEval-2022 Task 5: A Feature Extraction based Approach for Misogynous Meme Detection
Shankar Mahadevan, Sean Benhur, Roshan Nayak, Malliga Subramanian, Kogilavani Shanmugavadivel, Kanchana Sivanraj and Bharathi Raja Chakravarthi ........................................ 550

PAIC at SemEval-2022 Task 5: Multi-Modal Misogynous Detection in MEMES with Multi-Task Learning And Multi-model Fusion
Jin Mei Zhi, Zhou Mengyuan, Mengfei Yuan, Dou Hu, Xiyang Du, Lianxin Jiang, Yang Mo and Xiaofeng Shi ................................................................. 555

DD-TIG at SemEval-2022 Task 5: Investigating the Relationships Between Multimodal and Unimodal Information in Misogynous Memes Detection and Classification
Ziming Zhou, Han Zhao, Jingjing Dong, Ning Ding, Xiaolong Liu and Kangli Zhang .......... 563

Rajalakshmi Sivanaiah, Angel Deborah S, Sakaya Milton Rajendram and Mirnalinee T T .... 571

LastResort at SemEval-2022 Task 5: Towards Misogyny Identification using Visual Linguistic Model Ensembles And Task-Specific Pretraining
Samyak Agrawal and Radhika Mamidi ................................................................. 575

HateU at SemEval-2022 Task 5: Multimedia Automatic Misogyny Identification
Ayme Arango, Jesus Perez-Martín and Arniel Labrada ........................................ 581

SRCB at SemEval-2022 Task 5: Pretraining Based Image to Text Late Sequential Fusion System for Multimodal Misogynous Meme Identification
Jing Zhang and Yujin Wang ................................................................. 585

ASRtrans at SemEval-2022 Task 5: Transformer-based Models for Meme Classification
Ailneni Rakshitha Rao and Arjun Rao ................................................................. 597

UAEM-ITAM at SemEval-2022 Task 5: Vision-Language Approach to Recognize Misogynous Content in Memes
Edgar Roman-Rangel, Jorge Fuentes-Pacheco and Jorge Hermosillo Valadez .................. 605

JRLV at SemEval-2022 Task 5: The Importance of Visual Elements for Misogyny Identification in Memes
Jason Ravagli and Lorenzo Vaiani ........................................................................ 610

UPB at SemEval-2022 Task 5: Enhancing UNITER with Image Sentiment and Graph Convolutional Networks for Multimedia Automatic Misogyny Identification
Andrei Paraschiv, Mihai Dascalu and Dumitru-Clementin Cercel ................................ 618

RubCSG at SemEval-2022 Task 5: Ensemble learning for identifying misogynous MEMEs
Wentao Yu, Benedikt Boenninghoff, Jonas Röhrig and Dorothea Kolossa ..................... 626
<table>
<thead>
<tr>
<th>Team/Model</th>
<th>Task/Description</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIT Boston at SemEval-2022 Task 5:</td>
<td>Multimedia Misogyny Detection By Using Coherent Visual and Language Features from CLIP Model and Data-centric AI Principle</td>
<td>Lei Chen and Hou Wei Chou</td>
</tr>
<tr>
<td>TeamOtter at SemEval-2022 Task 5:</td>
<td>Detecting Misogynistic Content in Multimodal Memes</td>
<td>Paridhi Maheshwari and Sharmila Reddy Nangi</td>
</tr>
<tr>
<td>taochen at SemEval-2022 Task 5:</td>
<td>Multimodal Multitask Learning and Ensemble Learning</td>
<td>Chen Tao and Jung-jae Kim</td>
</tr>
<tr>
<td>MilaNLP at SemEval-2022 Task 5:</td>
<td>Using Perceiver IO for Detecting Misogynous Memes with Text and Image Modalities</td>
<td>Giuseppe Attanasio, Debora Nozza and Federico Bianchi</td>
</tr>
<tr>
<td>UniBO at SemEval-2022 Task 5:</td>
<td>A Multimodal bi-Transformer Approach to the Binary and Fine-grained Identification of Misogyny in Memes</td>
<td>Arianna Muti, Katerina Korre and Alberto Barrón-Cedeño</td>
</tr>
<tr>
<td>IIITH at SemEval-2022 Task 5:</td>
<td>A comparative study of deep learning models for identifying misogynous memes</td>
<td>Tathagata Raha, Sagar Joshi and Vasudeva Varma</td>
</tr>
<tr>
<td>I2C at SemEval-2022 Task 5:</td>
<td>Identification of misogyny in internet memes</td>
<td>Pablo Cordon, Pablo Gonzalez Diaz, Jacinto Mata and Victoria Pachón</td>
</tr>
<tr>
<td>INF-UFRGS at SemEval-2022 Task 5:</td>
<td>analyzing the performance of multimodal models</td>
<td>Gustavo Lorentz and Viviane Moreira</td>
</tr>
<tr>
<td>MMVAE at SemEval-2022 Task 5:</td>
<td>A Multi-modal Multi-task VAE on Misogynous Meme Detection</td>
<td>Yimeng Gu, Ignacio Castro and Gareth Tyson</td>
</tr>
<tr>
<td>AMS_ADRN at SemEval-2022 Task 5:</td>
<td>A Suitable Image-text Multimodal Joint Modeling Method for Multi-task Misogyny Identification</td>
<td>Da Li, Ming Yi and Yukai He</td>
</tr>
<tr>
<td>University of Hildesheim at SemEval-2022 task 5</td>
<td>Combining Deep Text and Image Models for Multimedia Misogyny Detection</td>
<td>Milan Kalkenings and Thomas Mandl</td>
</tr>
<tr>
<td>Mitra Behzadi at SemEval-2022 Task 5:</td>
<td>Multimedia Automatic Misogyny Identification method based on CLIP</td>
<td>Mitra Behzadi, Ali Derakhshan and Ian Harris</td>
</tr>
<tr>
<td>IITR CodeBusters at SemEval-2022 Task 5:</td>
<td>Misogyny Identification using Transformers</td>
<td>Gagan Sharma, Gajanan Sunil Gitte, Shlok Goyal and Raksha Sharma</td>
</tr>
<tr>
<td>IIT DHANBAD CODECHAMPS at SemEval-2022 Task 5:</td>
<td>MAMI - Multimedia Automatic Misogyny Identification</td>
<td>Shubham Kumar Barnwal, Ritesh Kumar and Rajendra Pamula</td>
</tr>
<tr>
<td>QiNiAn at SemEval-2022 Task 5:</td>
<td>Multi-Modal Misogyny Detection and Classification</td>
<td>Qin Gu, Nino Meisinger and Anna-Katharina Dick</td>
</tr>
</tbody>
</table>

xiii
UMUTeam at SemEval-2022 Task 5: Combining image and textual embeddings for multi-modal automatic misogyny identification
José Antonio García-Díaz, Camilo Caparros-Laiz and Rafael Valencia-García .............................. 742

YNU-HPCC at SemEval-2022 Task 5: Multi-Modal and Multi-label Emotion Classification Based on LXMERT
Chao Han, Jin Wang and Xuejie Zhang .......................................................... 748

TIB-VA at SemEval-2022 Task 5: A Multimodal Architecture for the Detection and Classification of Misogynous Memes
Sherzod Hakimov, Gullal Singh Cheema and Ralph Ewerth ............................................. 756

R2D2 at SemEval-2022 Task 5: Attention is only as good as its Values! A multimodal system for identifying misogynist memes
Mayukh Sharma, Ilanthenral Kandasamy and Vasantha W B ............................................ 761

AIDA-UPM at SemEval-2022 Task 5: Exploring Multimodal Late Information Fusion for Multimedia Automatic Misogyny Identification
Álvaro Huertas-García, Helena Liz, Guillermo Villar-Rodríguez, Alejandro Martín, Javier Huertas-Tato and David Camacho ................................................................. 771

YMAI at SemEval-2022 Task 5: Detecting Misogyny in Memes using VisualBERT and MMBT Multi-Modal Pre-trained Models
Mohammad Habash, Yahya Daqour, Malak AG Abdullah and Mahmoud Al-Ayyoub ............... 780

Exploring Contrastive Learning for Multimodal Detection of Misogynistic Memes
Charic Farinango Cuervo and Natalie Parde ............................................................ 785

Poirot at SemEval-2022 Task 5: Leveraging Graph Network for Misogynistic Meme Detection
Harshvardhan Srivastava ...................................................................................... 793

SemEval-2022 Task 6: iSarcasmEval, Intended Sarcasm Detection in English and Arabic
Ibrahim Abu Farha, Silviu Vlad Oprea, Steven R. Wilson and Walid Magdy ......................... 802

PALI-NLP at SemEval-2022 Task 6: iSarcasmEval- Fine-tuning the Pre-trained Model for Detecting Intended Sarcasm
Xiyang Du, Dou Hu, Jin Mei Zhi, Lianxin Jiang and Xiaofeng Shi .................................... 815

stce at SemEval-2022 Task 6: Sarcasm Detection in English Tweets
Mengfei Yuan, Zhou Mengyuan, Lianxin Jiang, Yang Mo and Xiaofeng Shi ....................... 820

GetSmartMSEC at SemEval-2022 Task 6: Sarcasm Detection using Contextual Word Embedding with Gaussian model for Irony Type Identification
Diksha Krishnan, Jerin Mahibha C and Thenmozhi Durairaj ............................................ 827

Aparna K Ajayan, Krishna Mohanan, Anugraha S, Premjith B and Soman KP ..................... 834

High Tech team at SemEval-2022 Task 6: Intended Sarcasm Detection for Arabic texts
Hamza Alami, Abdessamad Benlahbib and Ahmed Alami ................................................ 840

CS-UM6P at SemEval-2022 Task 6: Transformer-based Models for Intended Sarcasm Detection in English and Arabic
Abdelkader El Mahdaouy, Abdellah El Meeky, Kabil Essefar, Abderrahman Skiredj and Ismail Berrada ........................................................................................................ 844
TechSSN at SemEval-2022 Task 6: Intended Sarcasm Detection using Transformer Models
Ramdhanush V, Rajalakshmi Sivanaiah, Angel Deborah S, Sakaya Milton Rajendram and Mirnalinee T T .......................................................... 851

I2C at SemEval-2022 Task 6: Intended Sarcasm in English using Deep Learning Techniques
Adrián Moreno Monterde, Laura Vázquez Ramos, Jacinto Mata and Victoria Pachón Álvarez 856

NULL at SemEval-2022 Task 6: Intended Sarcasm Detection Using Stylistically Fused Contextualized Representation and Deep Learning
Mostafa Rahgouy, Hamed Babaei Giglou, Taher Rahgooy and Cheryl Seals ......................... 862

UoR-NCL at SemEval-2022 Task 6: Using ensemble loss with BERT for intended sarcasm detection
Emmanuel Osei-Brefo and Huizhi Liang .......................................................... 871

I2C at SemEval-2022 Task 6: Intended Sarcasm Detection on Social Networks with Deep Learning
Pablo Gonzalez Diaz, Pablo Cordon, Jacinto Mata and Victoria Pachón ......................... 877

BFCAI at SemEval-2022 Task 6: Multi-Layer Perceptron for Sarcasm Detection in Arabic Texts
Nsrin Ashraf, Fathy Sheraky Elkazzaz, Mohamed Taha, Hamada Nayel and Tarek Elshishtawy 881

akaBERT at SemEval-2022 Task 6: An Ensemble Transformer-based Model for Arabic Sarcasm Detection
Abdulrahman Mohamed Kamr and Ensaf Hussein Mohamed ........................................ 885

Aya Lotfy, Marwan Torki and Nagwa El-Makky ................................................. 891

reamtchka at SemEval-2022 Task 6: Investigating the effect of different loss functions for Sarcasm detection for unbalanced datasets
Reem Abdel-Salam .......................................................... 896

nikss at SemEval-2022 Task 6: Are Traditionally Pre-Trained Contextual Embeddings Enough for Detecting Intended Sarcasm?
Nikhil Singh .................................................................................. 907

Dartmouth at SemEval-2022 Task 6: Detection of Sarcasm
Rishik Lad, Weicheng Ma and Soroush Vosoughi .................................................. 912

ISD at SemEval-2022 Task 6: Sarcasm Detection Using Lightweight Models
Samantha Huang, Ethan A Chi and Nathan Andrew Chi ........................................ 919

Plumeria at SemEval-2022 Task 6: Sarcasm Detection for English and Arabic Using Transformers and Data Augmentation
Mosab Shaheen and Shubham Kumar Nigam .................................................. 923

IISERB Brains at SemEval-2022 Task 6: A Deep-learning Framework to Identify Intended Sarcasm in English
Tanuj Singh Shekhawat, Manoj Kumar, Udaybhan Rathore, Aditya Joshi and Jasabanta Patro 938

connotation_clashers at SemEval-2022 Task 6: The effect of sentiment analysis on sarcasm detection
Patrick Hantsch and Nadav Chkroun .................................................. 945

TUG-CIC at SemEval-2021 Task 6: Two-stage Fine-tuning for Intended Sarcasm Detection
Jason Angel, Segun Aroyehun and Alexander Gelbukh ........................................ 951
YNU-HPCC at SemEval-2022 Task 6: Transformer-based Model for Intended Sarcasm Detection in English and Arabic
Guangmin Zheng, Jin Wang and Xuejie Zhang .......................................................... 956

UTNLNP at SemEval-2022 Task 6: A Comparative Analysis of Sarcasm Detection using generative-based and mutation-based data augmentation
Amirhossein Abaskohi, Arash Rasouli, Tanin Zeraati and Behnam Bahrok ........................................... 962

FI-UAIC at SemEval-2022 Task 6: iSarcasmEval - Intended Sarcasm Detection in English and Arabic
Tudor Manoleasa, Daniela Gifu and Justin Sandu .......................................................... 970

MarSan at SemEval-2022 Task 6: iSarcasm Detection via T5 and Sequence Learners
Maryam Najafi and Ehsan Tavan ............................................................................. 978

LT3 at SemEval-2022 Task 6: Fuzzy-Rough Nearest Neighbor Classification for Sarcasm Detection
Olha Kaminska, Chris Cornelis and Veronique Hoste .................................................. 987

LISACTeam at SemEval-2022 Task 6: A Transformer based Approach for Intended Sarcasm Detection in English Tweets
Abdessamad Benlahbib, Hamza Alami and Ahmed Alami .............................................. 993

X-PuDu at SemEval-2022 Task 6: Multilingual Learning for English and Arabic Sarcasm Detection
Ya Qian Han, Yekun Chai, Shuohuan Wang, Yu Sun, Hongyi Huang, Guanghao Chen, Yitong Xu
and Yang Yang ........................................................................................................... 999

DUCS at SemEval-2022 Task 6: Exploring Emojis and Sentiments for Sarcasm Detection
Vandita Grover and Prof Hema Banati ........................................................................ 1005

UMU-Team at SemEval-2022 Task 6: Evaluating Transformers for detecting Sarcasm in English and Arabic
José Antonio García-Díaz, Camilo Caparros-Laiz and Rafael Valencia-García ...................... 1012

R2D2 at SemEval-2022 Task 6: Are language models sarcastic enough? Finetuning pre-trained
language models to identify sarcasm
Mayukh Sharma, Ilanthenral Kandasamy and Vasantha W B ........................................ 1018

SarcasmDet at SemEval-2022 Task 6: Detecting Sarcasm using Pre-trained Transformers in English
and Arabic Languages
Malak AG Abdullah, Dalya Faraj Alnore, Safa Swedat, Jumana Dawwas Khrais and Mahmoud
Al-Ayyoub .................................................................................................................. 1025

JCT at SemEval-2022 Task 6-A: Sarcasm Detection in Tweets Written in English and Arabic using
Preprocessing Methods and Word N-grams
Yaakov HaCohen-Kerner, Matan Fchima and Ilan Meyrowitsch ........................................ 1031

SemEval-2022 Task 7: Identifying Plausible Clarifications of Implicit and Underspecified Phrases in
Instructional Texts
Michael Roth, Talita Anthonio and Anna Sauer .............................................................. 1039

JBN-CCLab at SemEval-2022 Task 7: DeBERTa for Identifying Plausible Clarifications in Instructional Texts
Daewook Kang, Sung-Min Lee, Eunhwan Park and Seung-Hoon Na .................................. 1050

HW-TSC at SemEval-2022 Task 7: Ensemble Model Based on Pretrained Models for Identifying Plausible
Clarifications
Xiaosong Qiao, Yinglu Li, Min Zhang, Minghan Wang, Hao Yang, Shimin Tao and Qin Ying 1056
**Team Innovators at SemEval-2022 for Task 8: Multi-Task Training with Hyperpartisan and Semantic Relation for Multi-Lingual News Article Similarity**
Nidhir Bhavsar, Rishikesh Devanathan, Aakash Bhatnagar, Muskaan Singh, Petr Motlicek and Tirthankar Ghosal 1163

**OversampledML at SemEval-2022 Task 8: When multilingual news similarity met Zero-shot approaches**
Mayank Jobanputra and Lorena Del Rocío Martín Rodríguez 1171

**Team TMA at SemEval-2022 Task 8: Lightweight and Language-Agnostic News Similarity Classifier**
Nicolas Stefanovitch 1178

**ITNLP2022 at SemEval-2022 Task 8: Pre-trained Model with Data Augmentation and Voting for Multilingual News Similarity**
Zhongan Chen, Weiwei Chen, YunLong Sun, Hongqing Xu, Shuzhe Zhou, Bohan Chen, Chengjie Sun and Yuanchao Liu 1184

**LSX_team5 at SemEval-2022 Task 8: Multilingual News Article Similarity Assessment based on Word- and Sentence Mover’s Distance**
Stefan Heil, Karina Kopp, Albin Zehe, Konstantin Kobs and Andreas Hotho 1190

**Team dina at SemEval-2022 Task 8: Pre-trained Language Models as Baselines for Semantic Similarity**
Dina Pisarevskaya and Arkaitz Zubiaga 1196

**TCU at SemEval-2022 Task 8: A Stacking Ensemble Transformer Model for Multilingual News Article Similarity**
Xiang Luo, Yanqing Niu and Boer Zhu 1202

**Nikkei at SemEval-2022 Task 8: Exploring BERT-based Bi-Encoder Approach for Pairwise Multilingual News Article Similarity**
Shotaro Ishihara and Hono Shirai 1208

**YNU-HPCC at SemEval-2022 Task 8: Transformer-based Ensemble Model for Multilingual News Article Similarity**
Zihan Nai, Jin Wang and Xuejie Zhang 1215

**BL.Research at SemEval-2022 Task 8: Using various Semantic Information to evaluate document-level Semantic Textual Similarity**
Sebastien Dufour, Mohamed Mehdi Kandi, Karim Boutamine, Camille Gosse, Mokhtar Boume-dyén Billami, Christophe Bortolaso and Youssef Miloudi 1221

**DataScience-Polimi at SemEval-2022 Task 8: Stacking Language Models to Predict News Article Similarity**
Marco Di Giovanni, Thomas Tasca and Marco Brambilla 1229

**WueDevils at SemEval-2022 Task 8: Multilingual News Article Similarity via Pair-Wise Sentence Similarity Matrices**
Dirk Wangsadirdja, Felix Heinickel, Simon Trapp, Albin Zehe, Konstantin Kobs and Andreas Hotho 1235

**SemEval-2022 Task 9: R2VQ – Competence-based Multimodal Question Answering**
Jingxuan Tu, Eben Holderness, Marco Maru, Simone Conia, Kyeongmin Rim, Kelley Lynch, Richard Brutti, Roberto Navigli and James Pustejovsky 1244

**HIT&QMUL at SemEval-2022 Task 9: Label-Enclosed Generative Question Answering (LEG-QA)**
Weihe Zhai, Mingqiang Feng, Arkaitz Zubiaga and Bingquan Liu 1256
Samsung Research Poland (SRPOL) at SemEval-2022 Task 9: Hybrid Question Answering Using Semantic Roles
Tomasz Dryjański, Monika Zaleska, Bartek Kuźma, Artur Blażejewski, Zuzanna Bordzicka, Paweł Bujnowski, Klaudia Firlag, Christian Goltz, Maciej Grabowski, Jakub Jończyk, Grzegorz Klośiński, Bartłomiej Paziewski, Natalia Paszkiewicz, Jarosław Piersa and Piotr Andruszkiewicz ... 1263

PINGAN_AI at SemEval-2022 Task 9: Recipe knowledge enhanced model applied in Competence-based Multimodal Question Answering
Zhihao Ruan, Xiaolong Hou and Lianxin Jiang ... 1274

SemEval 2022 Task 10: Structured Sentiment Analysis
Jeremy Barnes, Laura Ana Maria Oberlaender, Enrica Troiano, Andrey Kutuzov, Jan Buchmann, Rodrigo Agerri, Lilja Øvrelid and Erik Velldal ... 1280

AMEX AI Labs at SemEval-2022 Task 10: Contextualized fine-tuning of BERT for Structured Sentiment Analysis
Pratyush Kumar Sarangi, Shamika Ganesan, Piyush Arora and Salil Rajeev Joshi ... 1296

ISCAS at SemEval-2022 Task 10: An Extraction-Validation Pipeline for Structured Sentiment Analysis
Xinyu Lu, Mengjie Ren, Yaojie Lu and Hongyu Lin ... 1305

SenPoi at SemEval-2022 Task 10: Point me to your Opinion, SenPoi
Jan Pfister, Sebastian Wankerl and Andreas Hotho ... 1313

SSN_MLRG1 at SemEval-2022 Task 10: Structured Sentiment Analysis using 2-layer BiLSTM
Karun Anantharaman, Divyasri K, Jayanthan PT, Angel Deborah S, Rajalakshmi Sivanaiah, Sakaya Milton Rajendram and Mimalinee T T ... 1324

MT-Speech at SemEval-2022 Task 10: Incorporating Data Augmentation and Auxiliary Task with Cross-Linguual Pretrained Language Model for Structured Sentiment Analysis
Cong Chen, Jiansong Chen, Cao Liu, Fan Yang, Guanglu Wan and Jinxiong Xia ... 1329

ECNU_ICA at SemEval-2022 Task 10: A Simple and Unified Model for Monolingual and Crosslingual Structured Sentiment Analysis
Qi Zhang, Jie Zhou, Qin Chen, Qingchun Bai, Jun Xiao and Liang He ... 1336

ZHIXIAOBAO at SemEval-2022 Task 10: Approaching Structured Sentiment with Graph Parsing
Yangkun Lin, Chen Liang, Jing Xu, Chong Yang and Yongliang Wang ... 1343

Hitachi at SemEval-2022 Task 10: Comparing Graph- and Seq2Seq-based Models Highlights Difficulty in Structured Sentiment Analysis
Gaku Morio, Hiroaki Ozaki, Atsuki Yamaguchi and Yasuhiro Sogawa ... 1349

UFRGSent at SemEval-2022 Task 10: Structured Sentiment Analysis using a Question Answering Model
Lucas Rafael Costella Pessutto and Viviane Moreira ... 1360

OPI at SemEval-2022 Task 10: Transformer-based Sequence Tagging with Relation Classification for Structured Sentiment Analysis
Rafal Poświate ... 1366

ETMS@IITKGP at SemEval-2022 Task 10: Structured Sentiment Analysis Using A Generative Approach
Raghav R, Adarsh Vemali and Rajdeep Mukherjee ... 1373
SLPL-Sentiment at SemEval-2022 Task 10: Making Use of Pre-Trained Model’s Attention Values in Structured Sentiment Analysis
Sadrodin Sadra Barikbin ................................................................. 1382

LyS_ACoruña at SemEval-2022 Task 10: Repurposing Off-the-Shelf Tools for Sentiment Analysis as Semantic Dependency Parsing
Iago Alonso-Alonso, David Vilares and Carlos Gómez-Rodríguez .................. 1389

SPDB Innovation Lab at SemEval-2022 Task 10: A Novel End-to-End Structured Sentiment Analysis Model based on the ERNIE-M
Yalong Jia, Zhenghui Ou and Yang Yang ........................................ 1401

HITSZ-HLT at SemEval-2022 Task 10: A Span-Relation Extraction Framework for Structured Sentiment Analysis
Yihui Li, Yifan Yang, Yice Zhang and Ruifeng Xu ................................ 1406

SemEval-2022 Task 11: Multilingual Complex Named Entity Recognition (MultiCoNER)
Shervin Malmasi, Anjie Fang, Besnik Fetahu, Sudipta Kar and Oleg Rokhlenko ........ 1412

LMN at SemEval-2022 Task 11: A Transformer-based System for English Named Entity Recognition
Ngoc Minh Lai ........................................................................... 1438

PA Ph&Tech at SemEval-2022 Task 11: NER Task with Ensemble Embedding from Reinforcement Learning
Qizhi Lin, Changyu Hou, Xiaopeng WANG, Jun Wang, Yixuan Qiao, Peng JIANG, Xiandi JIANG, Benqi WANG and Qifeng XIAO ......................................................... 1444

Elisa Terumi Rubel Schneider, Renzo M. Rivera-Zavala, Paloma Martinez, Claudia Moro and Emerson Cabrera Paraíso ................................................................. 1448

Xinyu Wang, Yongliang Shen, Jiong Cai, Tao Wang, Xiaobin Wang, Pengjun Xie, Fei Huang, Weiming Lu, Yueting Zhuang, Kewei Tu, Wei Lu and Yong Jiang ................................................. 1457

Multilinguals at SemEval-2022 Task 11: Complex NER in Semantically Ambiguous Settings for Low Resource Languages
Amit Pandey, Swayatta Daw, Narendra Babu Unnam and Vikram Pudi .............. 1469

AaltoNLP at SemEval-2022 Task 11: Ensembling Task-adaptive Pretrained Transformers for Multilingual Complex NER
Aapo Pietiläinen and Shaoxiong Ji ......................................................... 1477

DANGNT-SGU at SemEval-2022 Task 11: Using Pre-trained Language Model for Complex Named Entity Recognition
Dang Tuan Nguyen and Huy Khac Nguyen Huynh .................................... 1483

OPDAI at SemEval-2022 Task 11: A hybrid approach for Chinese NER using outside Wikipedia knowledge
Ze Chen, Kangxu Wang, Jiewen Zheng, Zijian Cai, Jiarong He and Jin Gao ........ 1488

Barbara Plank ............................................................................ 1494
Infrrd.ai at SemEval-2022 Task 11: A system for named entity recognition using data augmentation, transformer-based sequence labeling model, and EnsembleCRF
Jianglong He, Akshay Uppal, Mamatha N, Shiv Vignesh, Deepak Kumar and Aditya Kumar Sarda 1501

Abdellah El Mekki, Abdellakader El Mahdaouy, Mohammed Akallouch, Ismail Berrada and Ahmed Koumsi ................................................................. 1511

CASIA at SemEval-2022 Task 11: Chinese Named Entity Recognition for Complex and Ambiguous Entities
Jia Fu, Zhen Gan, Zhucong Li, Sirui Li, Dianbo Sui, Yubo Chen, Kang Liu and Jun Zhao . . 1518

TEAM-Atreides at SemEval-2022 Task 11: On leveraging data augmentation and ensemble to recognize complex Named Entities in Bangla
Nazia Tasnim, Md. Istiak Hossain Shihab, Asif Shahriyar Sushmit, Steven Bethard and Farig Sadeque ................................................................. 1524

KDDIE at SemEval-2022 Task 11: Using DeBERTa for Named Entity Recognition
Caleb Martin, Huichen Yang and William Hsu ...................................................... 1531

silpa_nlp at SemEval-2022 Tasks 11: Transformer based NER models for Hindi and Bangla languages
Sumit Singh, Pawankumar Jawale and Uma Shanker Tiwary .................................. 1536

Hossein Rouhizadeh and Douglas Teodoro .......................................................... 1543

Abdul Aziz, Md. Akram Hossain and Abu Nowshed Chy ........................................ 1549

CMNEROne at SemEval-2022 Task 11: Code-Mixed Named Entity Recognition by leveraging multilingual data
Suman Dowlagar and Radhika Mamidi ............................................................... 1556

RACAI at SemEval-2022 Task 11: Complex named entity recognition using a lateral inhibition mechanism
Vasile Pais .......................................................... 1562

NamedEntityRangers at SemEval-2022 Task 11: Transformer-based Approaches for Multilingual Complex Named Entity Recognition
Amina Miftahova, Alexander Pugachev, Artem Skiba, Katya Artemova, Tatiana Batura, Pavel Braslavski and Vladimir V. Ivanov .................................................. 1570

Raccoons at SemEval-2022 Task 11: Leveraging Concatenated Word Embeddings for Named Entity Recognition
Atharvan Dogra, Prabsimran Kaur, Guneet Singh Kohli and Jatin Bedi ...................... 1576

SeqL at SemEval-2022 Task 11: An Ensemble of Transformer Based Models for Complex Named Entity Recognition Task
Fadi Hassan, Wondimagegnhue Tufa, Guillem Collell, Piek Vossen, Lisa Beinborn, Adrian Flanagan and Kuan Eeik Tan ............................................... 1583
## Program

**Thursday, July 14, 2022**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 10:00</td>
<td>Invited Talk I: Alane Suhr</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:30 - 12:00</td>
<td>Oral Session I: Task Description Papers</td>
</tr>
<tr>
<td>12:00 - 13:30</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>13:30 - 15:00</td>
<td>Poster Session I: System Description Papers</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:30 - 17:00</td>
<td>Poster Session II: System Description Papers</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>08:30 - 10:00</td>
<td>Oral Session II: Task Description Papers</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:30 - 12:00</td>
<td>Poster Session III: System Description Papers</td>
</tr>
<tr>
<td>12:00 - 13:30</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>13:30 - 15:00</td>
<td>Invited Talk II: Allyson Ettinger Understanding” and prediction: Controlled examinations of meaning sensitivity in pre-trained models [Shared with *SEM]</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:30 - 16:45</td>
<td>Poster Session IV: System Description Papers</td>
</tr>
<tr>
<td>16:45 - 17:30</td>
<td>Oral Session III: Best Paper Awards</td>
</tr>
</tbody>
</table>