SemEval 2022

The 16th International Workshop on Semantic Evaluation (SemEval-2022)

Proceedings of the Workshop

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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

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12:00 - 13:30 *Lunch Break*

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