

SemEval 2024

**The 18th International Workshop on Semantic Evaluation  
(SemEval-2024)**

**Proceedings of the Workshop**

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## Gold



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# Introduction

The Semantic Evaluation (SemEval) workshops focus on the evaluation and comparison of systems that analyze diverse semantic phenomena in text, with the aim of extending the current state of the art in semantic analysis and creating high quality annotated datasets in a range of increasingly challenging problems in natural language semantics. SemEval provides an exciting forum for researchers to propose challenging research problems in semantics and to build systems/techniques to address such research problems.

SemEval-2024 is the eighteenth workshop in the series of International Workshops on Semantic Evaluation. The workshop began in 1998 and was originally known as SensEval and focused on word sense disambiguation.

In 2007, the workshop was renamed SemEval, and evolved to include semantic tasks beyond word sense disambiguation. Starting in 2012, SemEval has been organized every year. The tasks for the next iteration of the workshop, SemEval-2025 (<https://semeval.github.io/SemEval2025/>), are underway.

SemEval-2024 is co-located (hybrid) with the 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2024). SemEval-2024 will be held in Mexico City, Mexico and it includes the following 10 tasks:

- Semantic Relations
  - Task 1: Semantic Textual Relatedness for African and Asian Languages
  - Task 2: Safe Biomedical Natural Language Inference for Clinical Trials
- Discourse and Argumentation
  - Task 3: The Competition of Multimodal Emotion Cause Analysis in Conversations
  - Task 4: Multilingual Detection of Persuasion Techniques in Memes
  - Task 5: Argument Reasoning in Civil Procedure
- LLM Capabilities
  - Task 6: SHROOM, a Shared-task on Hallucinations and Related Observable Overgeneration Mistakes
  - Task 7: NumEval: Numeral-Aware Language Understanding and Generation
  - Task 8: Multidomain, Multimodel and Multilingual Machine-Generated Text Detection
- Knowledge Representation and Reasoning
  - Task 9: BRAINTEASER: A Novel Task Defying Common Sense
  - Task 10: Emotion Discovery and Reasoning its Flip in Conversation

This volume contains both the task description papers (10), that describe each of the above tasks, and the system description papers (279) that present the systems that participated in the tasks.

In addition, SemEval-2024 features two awards, one for the 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 three Best System Description Paper awards recognize 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 does not need to be the highest scoring system in the task, but it should have a strong analysis component in the evaluation, as well as a clear and reproducible description of the problem, algorithms, and methodology.

We are grateful to the task organizers for their dedication in carrying out ten very successful tasks and to the large number of participants whose enthusiastic participation has made SemEval 2024 a successful event. We also appreciate the efforts of the task organizers and participants who reviewed the paper submissions. These proceedings have greatly benefited from their detailed and thoughtful feedback. Finally, 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, the NAACL 2024 conference organizers for their support, and the ACL Special Interest Group on the Lexicon (SIGLEX) for sponsoring and supporting this event.

Atul Kr. Ojha, A. Seza Doğruöz, Harish Tayyar Madabushi, Giovanni Da San Martino, Sara Rosenthal, and Aiala Rosá (SemEval-2024 Organizers and Co-Chairs)

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# Keynote Talk: Beyond Single Scores: Transparent Evaluation through Fine-Grained Error Detection and Uncertainty Quantification

André F. T. Martins

Instituto Superior Tecnico, Senior Researcher at the Instituto de Telecomunicacoes, and VP of AI Research at Unbabel in Lisbon, Portugal

**Abstract:** Automatic evaluation metrics are key to drive progress in NLP. We use them to compare systems and decide which models to deploy, to understand the strengths and weaknesses of each model, and to help practitioners overcome existing failure modes. In this talk, I will discuss evaluation of machine translation quality. Today, lexical-based metrics (such as BLEU or ChrF) are being replaced by learned neural-based metrics, such as COMET and BLEURT, which exhibit much better correlation with human judgments. However, these metrics provide a single sentence-level score, offering little insight into translation errors (e.g., what are the errors and what is their severity). Can we do better? I will start by presenting xCOMET, an open-source learned metric which integrates both sentence-level evaluation and error span detection capabilities, exhibiting state-of-the-art performance across all types of evaluation (sentence-level, system-level, and error span detection). Moreover, it does so while highlighting and categorizing error spans, thus enriching the quality assessment. Then, I will discuss recent approaches that endow evaluation metrics with uncertainty quantification capabilities, using techniques such as Monte Carlo dropout, deep ensembles, heteroscedastic regression, quantile regression, and conformal prediction. Finally, I will present Tower, an open multilingual LLM for translation-related tasks. We perform continued pretraining on a multilingual mixture of monolingual and parallel data, creating TowerBase, followed by finetuning on instructions relevant for translation processes, creating TowerInstruct. The final model surpasses open alternatives on several tasks relevant to translation workflows and is competitive with general-purpose closed LLMs. To facilitate future research, we release the Tower models, our specialization dataset, an evaluation framework for LLMs focusing on the translation ecosystem, and a collection of model generations, including ours, on our benchmark.

**Bio:** André F. T. Martins is an Associate Professor at Instituto Superior Técnico, Senior Researcher at the Instituto de Telecomunicações, and VP of AI Research at Unbabel in Lisbon, Portugal. I also do scientific consulting for Priberam Labs. I work on natural language processing and machine learning.

Until 2012, André was a PhD student in the joint CMU-Portugal program in Language Technologies, at Carnegie Mellon University and Instituto Superior Técnico. His advisors were Mario Figueiredo, Noah Smith, Pedro Aguiar and Eric Xing.



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# Program

**Thursday, June 20, 2024**

09:10 - 09:25 *Welcome and Introduction to SemEval*

09:30 - 10:30 *Invited Talk 1, Shared with \*SEM*

10:30 - 11:00 *Coffee Break*

11:00 - 12:30 *Oral Session-I*

*SemEval Task 1: Semantic Textual Relatedness for African and Asian Languages*

Nedjma Ousidhoum, Shamsuddeen Hassan Muhammad, Mohamed Abdalla, Idris Abdulmumin, Ibrahim Said Ahmad, Sanchit Ahuja, Alham Fikri Aji, Vladimir Araujo, Meriem Beloucif and Christine De Kock

*SemEval-2024 Task 2: Safe Biomedical Natural Language Inference for Clinical Trials*

Mael Jullien, Marco Valentino and André Freitas

*SemEval-2024 Task 3: Multimodal Emotion Cause Analysis in Conversations*

Fanfan Wang, Heqing Ma, Rui Xia, Jianfei Yu and Erik Cambria

*SemEval-2024 Task 4: Multilingual Detection of Persuasion Techniques in Memes*

Dimitar Dimitrov, Firoj Alam, Maram Hasanain, Abul Hasnat, Fabrizio Silvestri, Preslav Nakov and Giovanni Da San Martino

*SemEval-2024 Task 5: Argument Reasoning in Civil Procedure*

Lena Held and Ivan Habernal

*SemEval-2024 Task 6: SHROOM, a Shared-task on Hallucinations and Related Observable Overgeneration Mistakes*

Timothee Mickus, Elaine Zosa, Raul Vazquez, Teemu Vahtola, Jörg Tiedemann, Vincent Segonne, Alessandro Raganato and Marianna Apidianaki

12:30 - 14:00 *Lunch*

14:00 - 15:00 *Oral Session-II*

*SemEval-2024 Task 7: Numeral-Aware Language Understanding and Generation*

Chung-chi Chen, Jian-tao Huang, Hen-hsen Huang, Hiroya Takamura and Hsin-hsi Chen

**Thursday, June 20, 2024 (continued)**

*SemEval-2024 Task 8: Multidomain, Multimodel and Multilingual Machine-Generated Text Detection*

Yuxia Wang, Jonibek Mansurov, Petar Ivanov, Jinyan Su, Artem Shelmanov, Akim Tsvigun, Osama Mohammed Afzal, Tarek Mahmoud, Giovanni Puccetti and Thomas Arnold

*SemEval-2024 Task 9: BRAINTEASER: A Novel Task Defying Common Sense*

Yifan Jiang, Filip Ilievski and Kaixin Ma

*SemEval 2024 - Task 10: Emotion Discovery and Reasoning its Flip in Conversation (EDiReF)*

Shivani Kumar, Md. Shad Akhtar, Erik Cambria and Tanmoy Chakraborty

15:00 - 15:30 *Best System Paper's Presentations*

15:30 - 16:00 *Coffee Break*

16:00 - 17:30 *Poster Session I: System Description Papers (local and online)*

**Friday, June 21, 2024**

- 09:30 - 10:30 *Invited Talk: Beyond Single Scores: Transparent Evaluation through Fine-Grained Error Detection and Uncertainty Quantification (André F. T. Martins)*
- 10:30 - 11:00 *Coffee Break*
- 11:00 - 12:30 *Poster Session II: System Description Papers (online)*
- 12:30 - 14:00 *Lunch*
- 14:00 - 15:30 *Poster Session III: System Description Papers (in presence)*
- 15:30 - 16:00 *Coffee Break*
- 16:00 - 16:45 *Best Paper Awards and Concluding Remarks*