

*SEM 2022

**The 11th Joint Conference on Lexical and Computational
Semantics**

Proceedings of the Conference

July 14-15, 2022

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Message from the General Chair and the Program Chairs

Welcome to ***SEM 2022**, the 11th Joint Conference on Lexical and Computational Semantics! We are pleased to present this volume containing the accepted long and short papers. *SEM 2022 was held as a hybrid conference following NAACL 2022, on July 14th-15th, 2022, due to the precautions for the COVID-19 pandemic.

Since its first edition in 2012, *SEM has become a major venue to present recent advances in all areas of lexical and computational semantics, including semantic representations, semantic processing, multi-lingual semantics, and others. *SEM is sponsored by SIGLEX, the ACL Special Interest Group on the Lexicon.

*SEM 2022 had a hybrid format with respect to ARR. We accepted both direct submissions through the START system and also those already reviewed through ARR. In total, we received 52 submissions in 9 areas:

- Theoretical and formal semantics
- Semantics in NLP applications
- Semantic composition and sentence-level semantics
- Resources and evaluation
- Psycholinguistics, cognitive linguistics and semantic processing
- Multilinguality
- Lexical semantics and word representations
- Commonsense reasoning and natural language understanding

We compiled an exciting program across all these areas. This year saw a particularly strong batch of submissions; finally, **30** papers were accepted – **18** long papers and **12** short papers.

The submitted papers were carefully evaluated by a program committee led by 11 area chairs, who coordinated a panel of 100 reviewers (who were assigned papers to review in the START system). Almost all submissions were reviewed by three reviewers, who were encouraged to discuss any divergence in evaluations. The papers in each area were subsequently assessed by the area chairs, who added meta-reviews to explain their accept/reject suggestions. The final selection was made by the program co-chairs after an independent check of all the reviews, meta-reviews, and discussions with the area chairs. The reviewers' recommendations were also used to shortlist a set of papers nominated for the Best Paper Award.

We are also very excited to have two excellent keynote speakers: **Allyson Ettinger** (University of Chicago) discussing controlled examinations of meaning sensitivity in pre-trained NLP models, and **Jacob Andreas** (Massachusetts Institute of Technology) discussing the extent to which language modeling induces representations of meaning.

We are deeply thankful to all area chairs and reviewers for their invaluable help in the selection of the program, for their readiness in engaging in thoughtful discussions about individual papers, and for providing valuable feedback to the authors. We are grateful to our Publicity chair, Jose Camacho-Collados (Cardiff University), who set up and regularly updated *SEM's website and publicized it through social media. We thank the Publication Chair, Alessandro Raganato (University of Milano-Bicocca), for his help with the compilation of the proceedings, and the NAACL 2022 workshop organizers for all the valuable help and support with organisational aspects of the conference. Finally, we thank all our authors and presenters for making *SEM 2022 such an exciting event. We hope you will find the content of these proceedings as well as the program of *SEM 2022 enjoyable, interesting and inspirational!

Ellie Pavlick and **Mohammad Taher Pilehvar**, Program Co-Chairs
Vivi Nastase, General Chair

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Keynote Talk: “Understanding” and prediction: Controlled examinations of meaning sensitivity in pre-trained models

Allyson Ettinger
University of Chicago

Abstract: In recent years, NLP has made what appears to be incredible progress, with performance even surpassing human performance on some benchmarks. How should we interpret these advances? Have these models achieved language “understanding”? Operating on the premise that “understanding” will necessarily involve the capacity to extract and deploy meaning information, in this talk I will discuss a series of projects leveraging targeted tests to examine NLP models’ ability to capture meaning in a systematic fashion. I will first discuss work probing model representations for compositional meaning, with a particular focus on disentangling compositional information from encoding of lexical properties. I’ll then explore models’ ability to extract and use meaning information when executing the basic pre-training task of word prediction in context. In all cases, these investigations apply tests that prioritize control of unwanted cues, so as to target the desired model capabilities with greater precision. The results of these studies suggest that although models show a good deal of sensitivity to word-level information, and to certain semantic and syntactic distinctions, when subjected to controlled tests they show little sign of representing higher-level compositional meaning, or of being able to retain and deploy such information robustly during word prediction. Instead, models show signs of heuristic predictive strategies that are unsurprising given their training, but that differ critically from systematic understanding of meaning. I will discuss potential implications of these findings with respect to the goals of achieving “understanding” with currently dominant pre-training paradigms.

Bio: Allyson Ettinger is an Assistant Professor in the Department of Linguistics at the University of Chicago. Her interdisciplinary work combines methods and insights from cognitive science, linguistics, and computer science to examine meaning extraction and predictive processes executed during language processing in artificial intelligence systems and in humans. She received her PhD in Linguistics from the University of Maryland, and spent a year as research faculty at the Toyota Technological Institute at Chicago (TTIC) before beginning her appointment at the University of Chicago. She holds an additional courtesy appointment at TTIC.

Keynote Talk: Models of meaning?

Jacob Andreas

Massachusetts Institute of Technology

Abstract: The extent to which language modeling induces representations of meaning—and the broader question of whether it is even in principle possible to learn about meaning from text alone—have remained a subject of ongoing debate across the language sciences. I’ll present some evidence that transformer language models build (rudimentary) structured representations of the meaning of input sentences; that these representations support LMs’ ability to reason about the entities and events described in a discourse; and that they can be modified with predictable effects on downstream language generation. Despite all this, even the largest LMs are prone to glaring semantic errors: they refer to entities that have not yet been mentioned, present contradictory facts, or describe impossible events. By understanding how (and where) LMs build models of meaning, we identify the causes of these errors, and in some cases correct them with extremely small amounts of targeted supervision.

Bio: Jacob Andreas is the X Consortium Assistant Professor at MIT. His research aims to build intelligent systems that can communicate effectively using language and learn from human guidance. Jacob earned his Ph.D. from UC Berkeley, his M.Phil. from Cambridge (where he studied as a Churchill scholar) and his B.S. from Columbia. As a researcher at Microsoft Semantic Machines, he founded the language generation team and helped develop core pieces of the technology that powers conversational interaction in Microsoft Outlook. He has been the recipient of Samsung’s AI Researcher of the Year award, MIT’s Kolokotronis teaching award, and paper awards at NAACL and ICML.

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Program

Thursday, July 14, 2022

08:30 - 10:00 *Sentence-Level Semantics*

Compositional generalization with a broad-coverage semantic parser
Pia Weißenhorn, Lucia Donatelli and Alexander Koller

DRS Parsing as Sequence Labeling
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Comparison and Combination of Sentence Embeddings Derived from Different Supervision Signals
Hayato Tsukagoshi, Ryohei Sasano and Koichi Takeda

10:00 - 10:30 *Break*

10:30 - 12:00 *Evaluation*

Dyna-bAbI: unlocking bAbI's potential with dynamic synthetic benchmarking
Ronen Tamari, Kyle Richardson, Noam Kahlon, Aviad Sar-shalom, Nelson F. Liu, Reut Tsarfaty and Dafna Shahaf

A Dynamic, Interpreted CheckList for Meaning-oriented NLG Metric Evaluation – through the Lens of Semantic Similarity Rating
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Thursday, July 14, 2022 (continued)

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Unsupervised Reinforcement Adaptation for Class-Imbalanced Text Classification

Yuxin Wu and Xiaolei Huang

12:00 - 13:30 *Break*

13:30 - 15:00 *Invited Talk: Models of meaning? - Jacobs Andreas*

15:00 - 15:30 *Break*

15:30 - 17:00 *Lexical Semantics*

Distilling Hypernymy Relations from Language Models: On the Effectiveness of Zero-Shot Taxonomy Induction

Devansh Jain and Luis Espinosa Anke

PropBank Comes of Age—Larger, Smarter, and more Diverse

Sameer Pradhan, Julia Bonn, Skatje Myers, Kathryn Conger, Tim O’gorman, James Gung, Kristin Wright-bettner and Martha Palmer

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Mark Anderson and Jose Camacho-collados

Friday, July 15, 2022

08:30 - 10:00 *Discourse and Dialog*

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10:00 - 10:30 *Break*

10:30 - 12:00 *Events*

Pairwise Representation Learning for Event Coreference

Xiaodong Yu, Wenpeng Yin and Dan Roth

Event Causality Identification via Generation of Important Context Words

Hieu Man, Minh Nguyen and Thien Nguyen

Word-Label Alignment for Event Detection: A New Perspective via Optimal Transport

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13:30 - 15:00 *Invited Talk: “Understanding” and prediction: Controlled examinations of meaning sensitivity in pre-trained models - Allyson Ettinger*

15:00 - 15:30 *Break*

15:30 - 17:00 *Panel discussion, Closing*