ACL 2025

BioNLP 2025 and Shared Tasks

Proceedings of the 24th Workshop on Biomedical Language Processing

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BioNLP 2025: new solutions to perennial and emerging problems

Dina Demner-Fushman, Sophia Ananiadou, Makoto Miwa and Jun-ichi Tsujii

Large Language Models (LLMs) continue to be the mainstay of Biomedical Language Processing, while the scope of BioNLP research continues to expand across foundational tasks, applications, languages and modalities. In 2025, we see increasing efforts to integrate textual features with visual and sequencing data; new approaches to named entity recognition and linking; work in several languages other than English; and applications ranging from drug discovery and gene editing to veterinary and clinical studies. Complex language technology tasks, such as question answering and summarization, as well as data generation and text mining are also strongly represented. Concerns about potential harms and irresponsible use of AI applications are being addressed through growing research into evaluation, debiasing, and understanding of models' behavior.

The submissions to the BioNLP 2025 workshop and the Shared Tasks demonstrated once again that the workshop sponsored by the ACL Special Interest Group on Biomedical Natural Language Processing (SI-GBIOMED) is the preferred venue for the groundbreaking research and applications in Biomedical Language Processing, which encompasses biological, clinical and non-professional medical sub-languages, among others. BioNLP remains the flagship and the generalist in biomedical language processing, accepting all noteworthy work independently of the tasks and languages studied. The quality of submissions continues to impress the program committee and the organizers.

BioNLP 2025 received 61 submissions, of which eight were accepted for oral presentation and 22 as poster presentations. The selected works span foundational research, biomedical language processing, clinical applications, and generation of new datasets and benchmarks.

Four Shared Tasks were collocated with BioNLP 2025:

SMAFIRA: annotating the literature for finding methods alternative to animal experiments.

ClinIQLink 2025: LLM Lie Detector Test: evaluating the effectiveness of generative models in producing factually accurate information, using a benchmark dataset specifically curated to align with the knowledge level of a General Practitioner (GP) .

ArchEHR-QA 2025: Grounded Electronic Health Record Question Answering: automatically generating answers to patients' health-related questions that are grounded in the evidence from patients' clinical notes.

BioLaySumm 2025: Now, in its third edition, this year's BioLaySumm, introduces a new task: radiology report generation in layman's terms, extending the shared task to a new multimodal domain.

The overviews of the tasks and short presentations of the best performing approaches are included in the workshop program. The participants in all Shared Tasks present their work in a dedicated poster session.

The keynote by Wojciech Kusa is titled: Incorporating Changes in Review Outcomes in the Evaluation of Systematic Review Automation.

Current evaluations of automation methods in systematic literature reviews often treat all included studies as equally important, ignoring their varying influence on review outcomes. This can misrepresent the effectiveness of search strategies, as not all relevant studies contribute equally to the conclusions of the review. To address this limitation, we propose a new evaluation framework that incorporates the differential impact of individual studies on review outcomes. Using data from the CLEF 2019 TAR task, we applied this framework to assess 74 automation models, leveraging meta-analysis effect estimates to weigh the influence of each study. Compared to conventional binary relevance metrics, our approach provided a more nuanced assessment, emphasizing the importance of retrieving high-impact studies. Results showed significant differences in model rankings, underscoring the value of outcome-based evaluation.

This framework offers researchers a more precise method for evaluating systematic review automation tools, ultimately supporting higher-quality evidence synthesis and better-informed clinical decisions.

Wojciech is a Senior Researcher at the NASK National Research Institute in Poland, where he leads the Linguistic Engineering and Text Analysis Department. He holds a PhD in NLP from TU Wien, with a focus on applying and evaluating neural methods for domain-specific data. His research interests include the safety and evaluation of large language models, clinical and biomedical NLP, and AI-driven scientific discovery. Wojciech was a Marie Skłodowska-Curie Fellow in the EU Horizon 2020 project DoSSIER, specialising in biomedical information retrieval and NLP. He has industry experience from roles at Samsung and Allegro, and has completed research internships at Sony, UNINOVA, and the Polish Academy of Sciences.

We are pleased to announce that the Chen Institute is co-organizing the BioNLP 2025 Workshop. Founded in 2016 by Tianqiao Chen and Chrissy Luo, the Chen Institute is driven by a bold vision to improve the human experience by understanding how our brains perceive, learn, and interact with the world. Their global platform includes the Tianqiao and Chrissy Chen Institute for Neuroscience at Caltech, the Tianqiao Chen Institute for Translational Research in Shanghai, the Chen Frontier Lab for Applied Neurotechnology, and the Chen Frontier Lab for AI and Mental Health. The Chen Scholars program supports early- to mid-career scientists, and the recently launched Chen Institute and Science Prize for AI Accelerated Research highlights their deep commitment to innovation. At this year's BioNLP Workshop, the Chen Institute is interested in exploring how artificial intelligence can accelerate the pace of scientific discovery. We believe there are vast, untapped opportunities to make groundbreaking advances by leveraging the power of AI. The hope is that this meeting will serve as the beginning of an ongoing dialogue—focused on new developments, transformative successes, and emerging thinking at the intersection of AI and science. Through this collaboration, the Chen Institute aims to identify and support promising approaches with the potential to meaningfully change the world.

As always, we are deeply grateful to the authors of the submitted papers and to the reviewers (listed elsewhere in this volume) who produced three thorough and thoughtful reviews for each paper in a fairly short review period. The quality of submitted work continues to grow, and the organizers are truly grateful to the members of our amazing Program Committee, who helped us to determine which work was ready to be presented, and which would benefit from the additional experiments and analyses suggested by the reviewers.

As in years past, we are looking forward to a productive workshop and hoping it will foster new collaborations and research. This will enable our community to continue making valuable contributions to public health and well-being, as well as to basic and clinical research.

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Keynote Talk

Incorporating Changes in Review Outcomes in the Evaluation of Systematic Review Automation

Wojciech Kusa

NASK National Research Institute, Poland **2025-08-01 12:00:00** – Room: **Room 2.15**

Abstract: Current evaluations of automation methods in systematic literature reviews often treat all included studies as equally important, ignoring their varying influence on review outcomes. This can misrepresent the effectiveness of search strategies, as not all relevant studies contribute equally to the conclusions of the review. To address this limitation, we propose a new evaluation framework that incorporates the differential impact of individual studies on review outcomes. Using data from the CLEF 2019 TAR task, we applied this framework to assess 74 automation models, leveraging meta-analysis effect estimates to weigh the influence of each study. Compared to conventional binary relevance metrics, our approach provided a more nuanced assessment, emphasizing the importance of retrieving high-impact studies. Results showed significant differences in model rankings, underscoring the value of outcome-based evaluation. This framework offers researchers a more precise method for evaluating systematic review automation tools, ultimately supporting higher-quality evidence synthesis and better-informed clinical decisions.

Bio: Wojciech is a Senior Researcher at the NASK National Research Institute in Poland, where he leads the Linguistic Engineering and Text Analysis Department. He holds a PhD in NLP from TU Wien, with a focus on applying and evaluating neural methods for domain-specific data. His research interests include the safety and evaluation of large language models, clinical and biomedical NLP, and AI-driven scientific discovery. Wojciech was a Marie Skłodowska-Curie Fellow in the EU Horizon 2020 project DoSSIER, specialising in biomedical information retrieval and NLP. He has industry experience from roles at Samsung and Allegro, and has completed research internships at Sony, UNINOVA, and the Polish Academy of Sciences.

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17:50 - 18:00 *Closing Remarks*