

RANLPStud 2025

**Proceedings of the
9th Student Research Workshop**

associated with

**The 15th International Conference on
Recent Advances in Natural Language Processing
RANLP'2025**

8-10 September, 2025

STUDENT RESEARCH WORKSHOP
ASSOCIATED WITH THE INTERNATIONAL CONFERENCE
RECENT ADVANCES IN
NATURAL LANGUAGE PROCESSING'2025

PROCEEDINGS

8-10 September 2025

Series Online ISSN 2603-2821

Designed by INCOMA Ltd.
Shoumen, BULGARIA

Preface

The RANLP 2025 Student Research Workshop (RANLPStud'2025) is a special track of the established international conference Recent Advances in Natural Language Processing (RANLP'2025).

The RANLPStud is being organised for the 9th time and this year is running in parallel with the other tracks of the main RANLP 2025 conference. The target of RANLPStud'25 is to be a discussion forum and provide an outstanding opportunity for students at all levels (Bachelor, Masters, and Ph.D.) to present their work in progress or completed projects to an international research audience and receive feedback from senior researchers.

The RANLPStud'25 received a good number of submissions, this year fifteen (13) papers were submitted to the event coming from Asia, The Americas (North and South) and Europe, a fact which was reflecting the great number of events, sponsors, submissions, and participants at the main RANLP conference.

We have accepted 3 excellent student papers for oral presentations, two of them shared the Best Paper Award and 6 submissions were presented as posters.

We did our best to make the reviewing process in the interest of our authors, by asking our reviewers to give as exhaustive comments and suggestions as possible, as well as to maintain an encouraging attitude. Each student submission was reviewed by at least two Programme Committee members, who are specialists in their field and were carefully selected to match the submission's topic.

This year, as usual, we invited both strictly Natural Language Processing (NLP) papers, and submissions at the borderline between two sciences (but bearing contributions to NLP).

The topics of the accepted submissions include: chatbots and conversational agents; dialogue systems; electronic dictionaries, terminologies and ontologies; information extraction; information retrieval; irony and sarcasm detection; language generation; language resources and corpora; linked data; mathematical, statistical, machine learning and deep learning models; morphology; multilingual NLP; NLP for healthcare; opinion mining and sentiment analysis; parsing; POS tagging; question answering; speech recognition; syntax, semantics, discourse, pragmatics, dialogue, lexicon; text categorisation; theoretical and application-orientated papers related to NLP.

We are thankful to the members of the Programme Committee for having provided such exhaustive reviews and to the conference mentors, who provided additional comments to participants.

The RANLPStud 2025 Organisers

Boris Velichkov, FMI, Sofia University "St. Kliment Ohridski", Bulgaria
Ivelina Nikolova-Koleva, IICT, Bulgarian Academy of Sciences and Graphwise, Bulgaria
Milena Slavcheva, IICT, Bulgarian Academy of Sciences, Bulgaria

Organizers:

Boris Velichkov, FMI, Sofia University "St. Kliment Ohridski", Bulgaria
Ivelina Nikolova-Koleva, IICT, Bulgarian Academy of Sciences and Graphwise, Bulgaria
Milena Slavcheva, IICT, Bulgarian Academy of Sciences, Bulgaria

Programme Committee:

Cengiz Acarturk (Jagiellonian University, Poland)
Svetla Boytcheva (Graphwise, Bulgaria)
Daniel Dakota (Indiana University, United States)
Hansi Hettiarachchi (Lancaster University, United Kingdom)
Eduard Hovy (University of Melbourne, Australia)
Tracy Holloway King (Adobe Inc., United States)
Dmitry Ilvovsky (HSE University, Russian Federation)
Ivan Koychev (Sofia University "St. Kliment Ohridski", Bulgaria)
Sandra Kübler (Indiana University, United States)
Paloma Moreda Pozo (University of Alicante, Spain)
Rafael Muñoz Guillena (University of Alicante, Spain)
Ivelina Nikolova-Koleva (Bulgarian Academy of Sciences and Graphwise, Bulgaria)
Petya Osenova (Sofia University "St. Kliment Ohridski" and Bulgarian Academy of Sciences, Bulgaria)
Pavel Rychly (Masaryk University, Czech Republic)
Milena Slavcheva (Bulgarian Academy of Sciences, Bulgaria)
Sylvia Vassileva (Sofia University "St. Kliment Ohridski", Bulgaria)
Boris Velichkov (Sofia University "St. Kliment Ohridski", Bulgaria)
Kristina Yordanova (University of Greifswald, Germany)
Valentin Zmycharov (Sofia University "St. Kliment Ohridski", Bulgaria)

Table of Contents

<i>A Multi-Baseline Framework for Ranking Global Event Significance Using Google Trends and Large Language Models</i>	
Zenan Chen	1
<i>Investigating Hierarchical Structure in Multi-Label Document Classification</i>	
Artemis Dampa	10
<i>Large Language Models for Lexical Resource Enhancement: Multiple Hypernymy Resolution in WordNet</i>	
Dimitar Hristov	20
<i>Automated classification of causal relations. Evaluating different LLM performances.</i>	
Giacomo Magnifico	27
<i>Study on Automatic Punctuation Restoration in Bilingual Broadcast Stream</i>	
Martin Polacek	37
<i>NoCs: A Non-Compound-Stable Splitter for German Compounds</i>	
Carmen Schacht	44
<i>A Proposal for Evaluating the Linguistic Quality of Synthetic Spanish Corpora</i>	
Lucia Sevilla-Requena	54
<i>Personalizing chatbot communication with associative memory</i>	
Kirill Soloshenko, Alexandra Shatalina, Marina Sevostyanova, Elizaveta Kornilova and Konstantin Zaitsev	62
<i>Visualization of LLM Annotated Documents</i>	
Teodor Todorov Valtchev and Nikolay Paev	70

