COLING 2025

The 31st International Conference on Computational Linguistics

Proceedings of the Main Conference

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Message from the General Chairs

On behalf of the International Committee on Computational Linguistics (ICCL), we are delighted to welcome you to the 31th International Conference on Computational Linguistics: COLING 2025, held in Abu Dhabi, United Arab Emirates.

Unlike the previous 30 editions of COLING, which were held every two years, this COLING takes place only eight months after the last joint LREC-COLING conference in Turin, Italy. What might look like a not very clever move (to say the least) – especially in view of the density of the major conferences in our field in summer and autumn – was motivated by the goal to disentangle LREC and COLING, the two major biannual conferences, which have, despite all their differences, a lot in common and therefore also share a significant percentage of attendees. From now on, LREC will continue to be held in even years, and COLING in odd years, as had already been the case from 1965 to 1973. Apart from this change, COLING 2025 introduces another novelty: In order to facilitate the participation of those colleagues who cannot travel to Abu Dhabi for whatever reason, the conference, although in-person, has extended for those a virtual poster session, which will take place a week after the in-person part, so all authors can present their papers.

Our colleagues from the Mohamed bin Zayed University of Artificial Intelligence in Abu Dhabi generously offered to host COLING 2025, and what month is better to hold a conference in the United Arab Emirates than January! And here we are! Obviously, the short organization time has been a challenge for the entire Organizing Committee. The Program Chairs Hend Al-Khalifa, Marianna Apideanaki, Barbara Di Eugenio, and Steven Schockaert, have managed to organize the submission, reviewing, selection, and organization of a large number of papers in an exceptionally short time frame. Our Local Committee Chairs Preslav Nakov, Nizar Habash, Yova Kementchedjhieva, Monojit Choudhury, Ahmed Dabbagh, Ekaterina Kochmar, Alham Fikri Aji, and Teresa Lynn have paid attention to all other organizational details (venue, accommodations, visas, budget). Especially Preslav was in demand in all matters, and in all of our numerous meetings. Jenn Rachford (R & R Planning) took over a substantial part of the organization of the conference and guided us with her professionalism, experience and wisdom.

However, we must not forget the hard work by the other members of our Organization Committee:

Workshop Chairs: Katsuhito Sudoh and Mo El-Haj; Tutorial Chairs: Djamé Seddah and Shaonan Wang; Demonstration Chairs: Brodie Mather and Mark Dras; Industrial Track Chairs: Kareem Darwish and Apoorv Agarwal; Ethics Chairs: Zeerak Talat and Su Lin Blodgett; Publicity & Social Media Chairs: Sakhar AlKhereyf and Baotian Hu; Website Chairs: Hasan Iqbal and Zain Muhammad Mujahid; Publication Chairs: Emily Allaway and Guillermo Cámbara; Volunteer Chair: Artem Shelmanov; Virtual Infrastructure Chairs: Tuhin Chakrabarty and Alexander Shvets; Birds-of-a-Feather Chairs: Hawau Olamide Toyin and Mukund Choudhary; and Best Paper Committee Chairs: Kevin Duh and Aline Villavicencio. All of them had to put in an extra work shift in order to be able to cope with the very demanding time constraints. We would like to take the opportunity to thank all of them! We could not have wished for a better or more dedicated team to work alongside. We would also like to thank our generous sponsors: The Abu Dhabi Convention and Exhibition Center, The Mohamed bin Zayed University of Artificial Intelligence (MBZUAI), the Technology Innovation Institute, New York University Abu Dhabi, Inception, Baidu, Google, Toloka AI, and Applied AI.

The result of this tremendous joint effort is an exciting high-quality program of 853 papers at the main conference, 22 workshops, 9 tutorials, and a winter school. In the in-person part of the conference program, we maintain the spirit of COLING and offer a number of different excursions that, as we are sure, will stimulate the social interaction between the attendees and allow them to immerse themselves into the cultural attractions of the United Arab Emirates.

Last but not least, we would like to thank each and every one of you for making COLING 2025 such a success by submitting high quality papers and demos, organizing workshops and tutorials on hot topics in our field, serving as Senior Area Chairs, Area Chairs, and Reviewers or Invited Speakers, and by joining us in Abu Dhabi.

Enjoy COLING 2025 in Abu Dhabi!

Owen Rambow and Leo Wanner

General Chairs of COLING 2025

Message from the Program Chairs

Welcome to the 31st International Conference on Computational Linguistics!

COLING 2025 is an in-person event which will take place in the beautiful historical city of Abu Dhabi. The conference also includes a virtual 2-day event which will take place online shortly after the in-person conference. Organizing COLING 2025 has been a collaborative effort, made possible by the dedication and hard work of many people. We would like to thank the following people for their support and contributions:

- The General Chairs, Owen Rambow and Leo Wanner;
- Our 2,418 reviewers, who made the conference possible and devoted their time to the careful assessment of the papers assigned to them;
- The emergency reviewers for their valuable help;
- The OpenReview team for their help in handling papers submitted to COLING 2025 via ARR;
- The 62 Senior Area Chairs;
- The 274 Area Chairs;
- The Awards Committee Chairs, Kevin Duh and Aline Villavicencio;
- The Awards Committee members, Eneko Agirre, Sandra Aluisio, David Chiang, Kentaro Inui, Zhiyuan Liu, Claudio Pinhanez, Ivan Vladimir Meza Ruiz, Karin Verspoor, and Ivan Vuliç;
- The ethics chairs, Zeerak Talat and Su Lin Blodgett;
- The industry track chair, Kareem Darwish and Apoorv Agarwal;
- The tutorial chairs, Djamé Seddah and Shaonan Wang;
- The demonstration chairs, Brodie Mather and Mark Dras;
- The workshop chairs, Katsuhito Sudoh and Mo El-Haj;
- The website chairs, Hasan Iqbal and Zain Muhammad Mujahid;
- The publication chairs, Emily Allaway, Guillermo Cámbara;
- The volunteer chair, Artem Shelmanov;
- The local organization chairs, Preslav Nakov, Alham Fikri Aji, Yova Kementchedjhieva, Ekaterina Kochmar, Teresa Lynn, Monojit Choudhury, Nizar Habash, Ahmed Dabbagh, and their team;
- The publicity chairs, Sakhar AlKhereyf and Baotian Hu;
- The Birds-of-a-Feather (BoF) Chairs, Hawau Olamide Toyin and Mukund Choudhary;
- The virtual infrastructure chairs, Alexander Shvets and Tuhin Chakrabarty;
- The ACL Anthology Director Matt Post and his team;
- Jennifer Rachford and the entire conference support staff;
- All the authors of papers submitted for review and committed to the conference.

Review Process
All submissions to COLING 2025 went through a double-blind review process. Papers directly submitted to the conference were reviewed by COLING 2025 reviewers and received meta-reviews from our Area Chairs. Papers submitted to COLING 2025 through the ACL Rolling Review (ARR) had already been reviewed and meta-reviewed by ARR reviewers and Action Editors. The COLING 2025 Senior Area Chairs papers provided recommendations for all papers – direct submissions and papers submitted via the ARR route – based on the reviews, meta-reviews, author rebuttal, discussions, and the paper themselves. Final acceptance decisions were made by the program chairs.

Acceptance Rate
In total, COLING 2025 received 2,530 direct submissions, with a further 193 papers being committed via the ACL Rolling Review (ARR) route. Of the direct submissions, 2,335 were reviewed: 1,922 long papers, of which 605 were accepted (31.5%), and 413 short papers, of which 85 were accepted (20.6%). From the papers that were committed via ARR, we accepted 58 long papers, out of a total of 167 (34.7%), and 12 short papers, out of a total of 26 (46.2%). Across all categories, we accepted a total of 760 papers (30.1%).

Best Paper Selection
COLING 2025 awarded papers which presented fascinating, controversial, surprising, impressive, and/or potentially field-changing results. In total 118 papers were nominated by the Reviewers, Area Chairs, Senior Area Chairs and Program Chairs for consideration. The Awards Committee assessed these papers. A total of 14 papers from the main track were awarded in the following categories, aimed at recognizing a broad range of exceptional work. In parentheses, we give the number of awards for each category.

- Best Long Paper (2 awards);
- Best Short Paper (2 awards);
- Best Dataset Paper (2 awards);
- Best Low-Resource Language Paper (1 award);
- Best Social Impact Paper (2 awards);
- Outstanding Long Paper (5 awards).

Program composition and presentation modes
Considering feedback from previous conference organizers, we decided to hold the virtual poster session separately, after the end of the in-person conference. The virtual sessions were scheduled post-conference in order to avoid conflicts and make it easier for the in-person attendees of the conference to join the virtual sessions. Among the papers presented in-person, 219 papers were assigned an oral presentation and 280 were presented as posters. The decisions about oral or poster presentation were made by the Program Chairs with the goal of having a well-rounded program with a diverse set of topics. The selection of the presentation mode was primarily based on the preference expressed by the authors of the papers (collected through a form the authors were asked to complete). For a few sessions, not enough slots for oral presentations were available to satisfy all preferences. In these cases, the decision followed the reviewers' recommendation for the presentation mode of each paper. Oral presentations and posters were thematically grouped into sessions by the Program Chairs, wherever possible. The mode of presentation does not reflect differences in quality among the papers, and accordingly, there is no difference in the proceedings between papers that were assigned oral presentations or posters. System Demonstrations and Industry Track papers were included into the Main Conference poster sessions. Three oral sessions were furthermore dedicated to Industry Track papers.

COLING 2025 features three exciting keynote speakers:

- Katrin Erk (University of Texas at Austin, USA) who will give a talk about "Word Meaning, in Computational Linguistics and Beyond";
- Emmanuel Dupoux (EHESS, META, France) who will talk about "Learning a language like infants do: results and challenges for developmentally inspired NLP";
- Partha Talukdar (Google DeepMind and IISc Bangalore, India) who will give a talk on the topic "Towards linguistically and culturally inclusive LLMs".

We hope that you will enjoy this year's program and conference!

Hend Al-Khalifa
Marianna Apidianaki
Barbara Di Eugenio
Steven Schockaert
COLING 2025 Program Committee Co-Chairs

Message from the Local Chairs

Dear COLING 2025 Participants,

We are happy to welcome you to the 31st International Conference on Computational Linguistics (COLING 2025), hosted in vibrant Abu Dhabi, the heart of Artificial Intelligence (AI), innovation, and culture in the United Arab Emirates.

COLING 2025 brings together the brightest minds in AI and Computational Linguistics, creating an unparalleled opportunity for dialogue and innovation. As language technology continues to redefine the way humans interact with machines, we are looking forward to exploring how these advancements can be leveraged to solve regional and global challenges—from healthcare and education to business and beyond.

Abu Dhabi offers a unique blend of tradition and modernity. From the awe-inspiring architecture of the Sheikh Zayed Grand Mosque to the cutting-edge developments on Saadiyat Island, the iconic Louvre Abu Dhabi, and the bustling cultural hub of Qasr Al Hosn, the city reflects the values of connectivity, learning, and exploration—values that resonate deeply with our scientific community.

As local chairs, our aim has been to create an environment where attendees can engage in meaningful discussions, form new collaborations, and experience the warmth of Emirati hospitality. We are proud to showcase our region's dedication to technology and language innovation through the conference program, which features distinguished keynote speakers, dynamic workshops, and opportunities to explore diverse linguistic and cultural insights.

We encourage you to take advantage of this exceptional location, not only by participating in the academic program but also by immersing yourself in the cultural richness of Abu Dhabi. Whether you visit the Louvre Abu Dhabi, stroll along the Corniche, or sample traditional Arabic cuisine, we hope you leave with memories that extend far beyond the conference halls.

With this in mind, we have prepared excursions that showcase the best of Abu Dhabi's culture, history, and adventure: (i) for history enthusiasts, a visit to the Abrahamic House & Louvre Abu Dhabi, (ii) for architecture and culture lovers, the Sheikh Zayed Grand Mosque & Qasr Al Watan (Presidential Palace), and (iii) for adventure seekers, dune bashing, sand surfing, and camel riding. All three excursions conclude with a traditional Arabic dinner in the desert.

The logo for COLING 2025, designed by Professor Nizar Habash from NYUAD & MBZUAI, showcases the architectural marvels of Abu Dhabi, UAE. It features, from left to right, seven iconic buildings, including the Sheikh Zayed Grand Mosque, Capital Gate, aka leaning tower of Abu Dhabi (near our conference location), Etihad Towers, Burj Mohammed bin Rashid, Al Bahr Twin Towers, and Aldar Headquarters Building.

As the local organizer of COLING 2025, Mohamed bin Zayed University of Artificial Intelligence (MBZUAI), the world's first specialized research-based AI university, we are glad to see for the first time this prestigious conference to be held in the MENA region. This is a notable milestone for the region, following the successful 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP), which was organized by NYU Abu Dhabi (NYUAD) in partnership with MBZUAI.

COLING 2025 is a dynamic platform for showcasing Abu Dhabi's growing leadership in AI, especially in natural language processing. Abu Dhabi is the home of MBZUAI's Institute of Foundation Models, which has developed: Jais, in collaboration with G42 and Cerebras, the world's leading open Arabic-centric foundation and instruction-tuned large language model; K2 a 65B model optimized for reasoning; Nanda, the world's best open Hindi model; and LLM360, the first truly open LLM. It is also the home of

TII, which has developed the Falcon family of LLMs.

Being in the MENA region, there is a special focus of COLING 2025 on local languages. In addition to the main conference, the tutorials, and the workshops, we further host the First Arabic Natural Language Processing (NLP) Winter School, a two-day event (sponsored by NYUAD, with the first day hosted in MBZUAI). The Winter School is designed to advance knowledge and skills in Arabic NLP research and development and to foster interdisciplinary exchange and networking among students, academics, and industry professionals in the field.

In addition to leveraging Abu Dhabi's strong MICE (meetings, incentives, conferences, and exhibitions) infrastructure and capabilities, the conference is supported by the Abu Dhabi Convention and Exhibition Bureau (ADCEB), part of the Department of Tourism and Culture – Abu Dhabi (DCT Abu Dhabi).

In closing, we hope that you will enjoy your stay in Abu Dhabi, exploring its rich culture, taking advantage of the many opportunities for fun, all while getting the most out of the extensive technical program of COLING 2025.

Welcome to COLING 2025 and welcome to the vibrant city of Abu Dhabi!

Hayyakum fi Darkum 'Welcome to our shared home'.

Preslav Nakov, Nizar Habash, Yova Kementchedjhieva, Monojit Choudhury, Ahmed Dabbagh, Ekaterina Kochmar, Alham Fikri Aji, and Teresa Lynn

Local Chairs, COLING 2025

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Ahmed Dabbagh, Mohamed bin Zayed University of Artificial Intelligence, UAE

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Demonstration Chairs

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