EACL 2023

The 17th Conference of the European Chapter of the Association for Computational Linguistics

Findings of EACL 2023

May 2-6, 2023

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Message from the General Chair

Welcome to the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL). This is the flagship European conference dedicated to European and international researchers, covering a broad spectrum of research areas of Computational Linguistics and Natural Language Processing.

Organizing a scientific conference of the prestige and size of EACL is always a great honor associated with several challenges. Our team had to tackle unusual complexities: this conference was one of the first scheduled to be in person after the long period of online conferences forced by COVID pandemic. The bidding process for a location, which typically takes place several years before the actual start of the conference, is mainly driven by the aim of expanding and involving the science community of all European countries: EACL selected Kyiv, Ukraine, as the physical location. As you all know, in February 2022, an unpredictable and dramatic event happened, the war between Russian and Ukraine, which made the organization in Kyiv impossible.

Considering the importance of physical interaction among researchers, especially after the restrictions imposed by the COVID pandemic, we worked hard with the EACL and ACL boards to find an alternative location, able to delight our attendees. Our team achieved this seemingly impossible goal of organizing a conference in a new location a few months before its start: we selected Dubrovnik, Croatia, while preserving the original aim of strengthening the connection with the Ukrainian community. In this respect, the Ukraine local committee will feature a dedicated panel session, "Low-resource languages in NLP products", and a workshop to highlight work on Ukrainian language technologies. Following the latest conference, EACL 2023 will be "hybrid," serving both virtual and in-person participants. As our official local chairs are not from the physical location, we needed a local team from Croatia for helping with the logistics. As a result, the main unexpected novelty of EACL 2023 is to have two local organizing committees from two different European countries.

In the remainder of this preface, I would like to thank EACL contributors chronologically with respect to my work timeline for EACL: Roberto Basili and Shuly Wintner, the new and former Presidents of ACL, along with the EACL board – thanks for having trusted me to manage the organization of the conference in rather complicated times. I started to be confident that we would have done a good job after Isabelle Augenstein and Andreas Vlachos accepted the role of PC Chairs. They have performed amazing work, creating an outstanding program, and also helping me in recruiting our fantastic organization team. A special thank is due to Preslav Nakov (EACL officer) for his support: thanks to his action, the proactiveness of David Yarowsky, and the fairless effort of Jennifer Rachford (our new secretary of the ACL business office), we successfully implemented the apparently unrealistic idea of switching from the already planned online conference to a hybrid setting with a physical location in Dubrovnik. Regarding the online side of our hybrid conference, we partnered with Underline (Sol Rosenberg, Damira Mrsic and Luka Simic), who also gave us support for managing the entire conference. While finalizing the location, we started to activate the different sections of the conference, for which my acknowledgements are again in chronological order:

- Ukraine Local Committee, Viktoria Kolomiets, Mariana Romanyshyn, Oleksii Molchanovskyi, Oles Dobosevych, was instrumental in preserving our initial goal of connecting the Ukraine research community, organizing a panel and a workshop.
- The website chairs, Pepa Atanasova and Julius Cheng, started immediately to design our website, even when almost no information was available.
- The workshop chairs, Zeerak Talat and Antonio Toral, selected our conferences and led the selection of workshops for the joint ACL call.

- The tutorial chairs, Sameer Pradhan and Fabio Massimo Zanzotto, together with the ACL chairs, took care of the tutorial selection for the ACL related conferences.
- The demonstration chairs, Danilo Croce and Luca Soldaini, created a parallel conference program to select exciting demos.
- The Publicity Chairs, Laura Biester, Leshem Choshen and Joel Tetrault, have been our interface with the science community through social media platforms.
- The Publication Chairs, Carolina Scarton and Ryan Cotterell, produced high-quality proceedings, thanks to their competence and experience.
- The diversity and inclusion chairs, Sara Tonelli, Elena Cabrio, Verena Rieser, Spandana Gella, took care of DI and performed an amazing job, also working on hundreds applications.
- The Local Organising Committee of Croatia, Marko Tadić, Krešimir Šojat, and Daša Farkaš, gave essential help for the logistics, Visa, and student volunteers.
- Student Research Workshop Chairs, Matthias Lindemann, Alban Petit, and Elisa Bassignana, along with their faculty advisors Valerio Basile and Natalie Schluter, helped in setting the bases for forming great NLP researchers of the future.
- Our entire program committee, Senior Area Chairs, Area Chairs, reviewers, and best paper committee, was essential for obtaining our high-quality scientific program.
- The ACL's sponsorship director Chris Callison-Burch took care of our sponsorships.
- The student volunteers, as usual, are essential for a successful conference execution.
- Priscilla Rasmussen, our former ACL business office secretary, continued to provide us with useful advice.

Finally, I would like to thank our sponsors for helping us to fund scholarships and DI initiatives.

Alessandro Moschitti
Amazon Alexa AI, Los Angeles, USA
EACL 2023 General Chair

ACL Statement on the Ukraine situation

March 11, 2022

The Association for Computational Linguistics (ACL) condemns in the strongest possible terms the actions of the Russian Federation government in invading the sovereign state of Ukraine and engaging in war against the Ukrainian people. We stand together with Ukrainian NLP colleagues, the Ukrainian people, Russian NLP colleagues and Russian people who condemn the actions of the Russian Federation government, and all those around the world who have been impacted by the invasion.

As a small token of our solidarity with the Ukrainian people, the ACL has decided to temporarily sever its ties with Russia-based organizations, while at the same time allowing Russian scientists to remain part of the ACL community. In practice, this means that the ACL will refrain from accepting any sponsorship or allowing any exhibits from Russian-headquartered entities at ACL-run events. Russian scholars are still welcome to participate in ACL events and publish at ACL venues.

The ACL is committed to peace and condemns any form of violence and harassment. We are also committed to peaceful co-operation, mutual understanding, and tolerance across borders. NLP scholars from both Ukraine and Russia are welcome to get in touch with the ACL with any concerns.

Tim Baldwin, on behalf of the ACL Executive

Message from the Program Chairs

Welcome to the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL). After the last edition in 2021 having been held fully online due to the COVID pandemic, EACL 2023 is being held in "hybrid" mode this year, serving both virtual and in-person participants in Dubrovnik, Croatia. While the original plan was to hold the conference in Kyiv (which was the plan originally for EACL 2021), the ongoing war made the organisation in Ukraine impossible. In order to ensure that the original aim of strengthening the connections with the Ukrainian community is still served, our program features a dedicated session and a workshop to highlight work on Ukrainian language technologies.

Submission and Acceptance

EACL 2023 accepted direct submissions, as well as submissions via ARR. For direct submissions, abstracts were needed to be registered one week prior to the submission date.
In total, EACL 2023 received 1550 submissions, the largest number to date, with the 2021 edition having received 1400 submissions. Out of those, 1045 were long and 505 were short paper submissions. 81 were ARR papers that were committed to EACL. 249 submissions were withdrawn throughout the reviewing process, including before the full paper submission deadline. 55 papers were desk rejected for various reasons (missing the limitations section, anonymity policy, multiple submission policy, plagiarism or formatting violations).
By the time we as the programme chairs made acceptance decisions, 1166 submissions were still active in the system. We kept the acceptance rate in line with previous *ACL conferences, resulting in 281 papers accepted to the main conference (24.1%), and 201 papers accepted to the Findings of EACL (17.2%), with the remaining 58.7% being rejected. One paper accepted to the main conference and four papers accepted to Findings were subsequently withdrawn. Out of the final set of accepted main conference papers, we invited 178 to be presented orally, and all 281 papers accepted to the main conference to be presented during in-person sessions, as well as a plenary virtual poster session. The EACL 2023 program also features six papers from the Transactions of the Association for Computational Linguistics (TACL) journal, and one from the Computational Linguistics (CL) journal.

Limitations Section

Following EMNLP 2022, we required that each submitted paper must include an explicitly named Limitations section, discussing the limitations of the work. This was to counterbalance the practice of over-hyping the take-away messages of papers, and to encourage more rigorous and honest scientific practice. This discussion did not count towards the page limit, and we asked reviewers to not use the mentioned limitations as reasons to reject the paper, unless there was a really good reason to.

Areas

To ensure a smooth process, the submissions to EACL 2023 were divided into 21 areas. The areas mostly followed these of previous EACL, and more broadly *ACL conferences, reflecting the typical divisions in the field. We also had a special area for papers for which both SACs had a conflict of interest. Those papers were reviewed by the reviewers and ACs in their original areas, but the paper recommendations were made by a dedicated SAC, who was a senior member of the NLP community. The most popular areas with over 100 submissions were "Generation and Summarization", "Language Resources and Evaluation", and "Machine Learning in NLP".

Best Paper Awards

From the papers submitted to EACL 2023, we selected 25 papers accepted to the main conference as candidates for a Best Paper award, based on nominations by the reviewers. These papers were assessed by the Best Paper Award Committee, who also determined the types of paper awards, following the ACL Conference Awards Policy. The selected best papers and runner-ups will be announced in a dedicated plenary session for Best Paper Awards on 4 May 2023.

Programme Committee Structure and Reviewing

Similar to prior NLP conferences, we adopted the hierarchical program committee structure, where for each area we invited 1-2 Senior Area Chairs (SACs), who worked with a team of Area Chairs (ACs), and a larger team of reviewers. We relied on statistics from prior years to estimate how many SACs, ACs and reviewers would be needed and ended up with 43 SACs, 118 ACs and 1634 reviewers. For identifying ACs and reviewers, we used the reviewer lists from prior *ACL conferences, and also encouraged all EACL 2023 authors to serve as reviewers, using a mandatory form requesting further information on their ability to serve as ACs, reviewers or emergency reviewers, which authors had to fill in on Softconf when registering their abstracts. We passed this information on to SACs, who were responsible for recruiting ACs and reviewers.

Rather than making assignments using a matching algorithm, we asked ACs and reviewers to bid on registered abstracts within their areas, to achieve a better fit. We went with this solution as the number of papers per area was relatively small, and we wanted to avoid poor reviewing assignments as much as possible. We then made an initial paper assignment, in which we ensured that each paper would be reviewed by at least one reviewer who bidded "yes" for the submission, and by no reviewers who bidded "no" for the submission.

Afterwards, we asked the SACs to fine-tune the allocations, and ensure each paper had one AC and three reviewers assigned to it.

To ensure the review quality, we provided detailed guidelines about what reviewers should and shouldn't do in a review, based on the EMNLP 2022 guidelines. We also asked reviewers to flag papers for potential ethical concerns.

For pre-reviewed ARR papers, we asked SACs to not rely mainly on the reviewer scores, but to make their recommendations based on the text of the reviews, meta-reviews and the papers themselves. For making acceptance decisions, we mostly followed SAC recommendations, though also taking into account the overall quality of papers submitted to the conference. Where recommendations seemed overly harsh or lenient given the reviewers' scores, reviews, author responses, or discussions amongst reviewers, we engaged in a dialogue with the respective SACs to make the final decision about the papers in question.

Ethics Committee

We also formed an Ethics Committee (EC) dedicated to ethical issues. The ethics committee considered 21 papers that were flagged by the technical reviewing committee for ethical concerns. Out of these, 10 were conditionally accepted, meaning the ethics issues had to be addressed in the camera-ready version, to be verified by the EC prior to final acceptance, and the other 11 were accepted as is. The authors of all conditionally accepted papers submitted the camera-ready version and a short response that explained how they had made the changes requested by the EC. The EC double-checked these revised submissions and responses, and confirmed that the ethical concerns had been addressed. As a result, all conditionally accepted papers were accepted to the main conference or Findings.

ACL Rolling Review

ACL Rolling Review (ARR) is an initiative of the Association for Computational Linguistics, where the reviewing and acceptance of papers to publication venues are done in a two-step process: (1) centralized rolling review and (2) the ability to commit the reviewed papers to be considered for publication by a publication venue. For EACL 2023, we decided to follow EMNLP 2022's example and run a process which is separate from ARR, but also allows for ARR submissions. Specifically, authors could either submit papers to EACL 2023 directly, or commit ARR reviewed papers by a certain date. We coordinated with the ARR team to extract the submission, review and meta-review from the OpenReview system, according to a submission link that the author provided when committing their ARR submission to EACL. The ARR commitment deadline was set one month after the direct submission deadline since the ARR submissions already have their reviews and meta-recommendation. These ARR papers were then ranked by the SACs together with the direct submissions in the track, and based on the reviews and meta-reviews from ARR. Overall, EACL had 81 papers committed from ARR, of these 24 were accepted to the main conference and 20 were accepted to Findings of EACL.

Presentation Mode

We made the decision on which papers would be invited for oral poster presentations based on several factors: the relative rank of the paper according to SAC recommendation, whether the paper had been recommended for a best paper award by at least one reviewer, and for TACL and CL papers, the authors' preference of presentation mode.

Keynotes and Panel

Another highlight of our program are the plenary sessions, for which we scheduled three talks, as well a panel:

- a keynote talk by Joyce Chai (University of Michigan) on "Language Use in Embodied AI!
- a keynote talk by Edward Greffenstette (Cohere AI and University College London) on "Going beyond the benefits of scale by reasoning about data"
- a keynote talk by Kevin Munger (Penn State University) on Chatbots for Good and Evil"
- a panel on "low-resource languages in NLP products" led by Mariana Romanyshyn with Viktoria Kolomiets (Grammarly), Mariana Romanyshyn (Grammarly), Oleksii Molchanovskyi (Ukrainian Catholic University) and Oles Dobosevych (Ukrainian Catholic University)

Thank Yous

EACL 2023 is the result of a collaborative effort and a supportive community, and we want to acknowledge the efforts of so many people with whom we worked directly and made significant efforts in putting together the programme for EACL 2023!

- Our General Chair, Alessandro Moschitti, who led the whole organising team, and helped with many of the decision processes;
- Our 43 Senior Area Chairs, who were instrumental in every aspect of the review process, from recruiting Area Chairs, correcting reviewer assignments, to making paper acceptances;
- Our 118 Area Chairs, who had the role of interacting with the reviewers, leading paper review discussions, and writing meta-reviews;

- The 1634 reviewers, who provided valuable feedback to the authors; The emergency reviewers, who provided their support at the last minute to ensure a timely reviewing process;
- Our Best Paper Selection Committee, who selected the best papers and the outstanding papers: Jonathan Kummerfeld (chair), Joakim Nivre, Bonnie Webber, Thamar Solorio and Hanna Hajishirzi;
- Our Ethics Committee, chaired by Zeerak Talat, for their hard work to ensure that all the accepted papers addressed the ethical issues appropriately, under a very tight schedule;
- Our amazing Publication Chairs, Carolina Scarton and Ryan Cotterell for compiling the proceedings in good time for the conference;
- Our Publicity Chairs, Laura Biester, Leshem Choshen and Joel Tetrault, for their work on managing the communications on social media platforms;
- Our website chairs, Pepa Atanasova and Julius Cheng for putting together the website for the conference and keeping it up to date;
- Damira Mrsic from Underline, for her support in developing the virtual conference platform;
- Jennifer Rachford, who has worked tirelessly online and on-site to ensure that EACL 2023 is a success.

We're looking forward to a great EACL 2023!

Isabelle Augenstein (University of Copenhagen, Denmark)
Andreas Vlachos (University of Cambridge, UK)
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