

COLING

**International Conference on
Computational Linguistics**

Proceedings of the Conference and Workshops

COLING

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Proceedings of the Main Conference

**The 29th International Conference on
Computational Linguistics**

October 12 - 17, 2022
Gyeongju, Republic of Korea

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Preface: General Chairs

Welcome to COLING 2022 – the 29th International Conference on Computational Linguistics. Held in Gyeongju, this is the first COLING in the Republic of Korea!

We visited Gyeongju in 2016, as a site visit together with the local chair Key-Sun Choi, and were amazed by its beauty and its great historical significance. Our report to the ICCL was extremely positive. So here we are, delighted to be General Chairs of COLING in the beautiful capital of the old Silla Kingdom.

COLING is organized under the auspices of the International Committee on Computational Linguistics (ICCL, <https://ufal.mff.cuni.cz/iccl>). The ICCL is a very special committee, with neither bylaws nor bank accounts. The sole function of the ICCL is to ensure that a COLING is held every two years and that the conference is not only scientifically robust but also conducive to the sharing of ideas and cultural experiences in a congenial and inclusive environment.

COLING has evolved over the years, together with the changes in our field. But the mission of the ICCL to maintain the COLING “spirit” has never changed: we want COLING to be an inclusive conference that welcomes diversified participants and ideas. We also want to underline the fact that Language is what defines our field and the subject of our scientific inquiries. Thus, we pay special attention to works that help us understand Language, including its complexities, diversity, and robust reflection and facilitation of individual and collective human behaviors and actions. This is why the theme of COLING 2022 is ***NLP for the Grand Challenges of Our Time***. We would like to highlight that, through effective processing of language big data, computational linguistics will play a crucial role in understanding the nature of the grand challenges, how people react to these challenges, and how to manage effective collective behaviors to tackle these challenges.

Recall that for COLING the congenial and inclusive environment for exchanges of ideas is part of the gene of the conference that is as important as its scientific excellence. That’s why COLING has kept the tradition of the “excursion” that typically allows participants to be immersed in a new cultural or ecological environment.

A highly efficient committed team has worked for the organization of COLING 2022, having also to cope with the unpredictable consequences of Covid-19 and related policies around the world. We are having a hybrid COLING because of the still present difficulties to travel from or back to some parts of the world. This decision had a strong impact on the organization of the conference program, both for the main conference and workshops and tutorials.

It is our pleasure to warmly thank, also on behalf of the ICCL, all the Chairs, too many to mention them all here, for the wonderful work they have done. It has been a pleasure and a privilege for us to work together with such a competent and talented team: they made our work as General chairs very easy.

We do owe a special thanks to Hansaem Kim, James Pustejovsky and Leo Wanner, the Program chairs, for their hard work in managing so smoothly an impressive number of submissions, many more than we expected. And we wish to express our deepest gratitude to the Local chairs – Key-Sun Choi and Pum-Mo Ryu – who have worked with such great dedication in all the various phases of the conference organization, always keeping everything under control. Not an easy task in particular during the pandemic time. We enjoyed the weekly calls with the Program chairs and the Local chair: they have been very useful for an efficient interaction among all of us.

We also want to thank the generosity of all the sponsors for their great support of COLING 2022, especially our grand challenge sponsors.

Last but not least, our heartfelt thanks go to all the colleagues (so many) who submitted their work to COLING 2022, to the organizers of Workshops and Tutorials, to the participants (both in-person and

remote), and to the many students among them. The participation of young researchers keeps alive the continuous growth of our community in COLING, and our joint efforts to tackle the grand challenges.

We hope that you benefit not only from the scientific program but also, for both the in-person and virtual participants, from the social parts of COLING. We hope you get from this COLING both new exciting ideas and also new friends.

Enjoy COLING 2022 in Gyeongju!

Nicoletta Calzolari and Chu-Ren Huang
General Chairs of COLING 2022 and ICCL Members

Preface: Program Chairs

Welcome to the 29th International Conference on Computational Linguistics (COLING'2022)!

The past two years have been a very difficult time for conference travel, due to the continued effect of global travel restrictions caused by the COVID-19 pandemic. And while some restrictions are still being enforced, we are nevertheless excited to be able to offer COLING 2022 as a combination in-person and hybrid event in the beautiful historical city of Gyeongju in the Republic of Korea.

COLING 2022 received 2253 submissions, 2026 of which were reviewed. From these, 632 regular papers have been accepted, 83% for long papers, and 17% for short papers. We are gratified to note the increasing interest and enthusiasm that researchers in our community have shown for COLING. We would like to thank all authors who submitted to the conference, and congratulate those whose papers were accepted for conference presentation. We also hope that those authors whose papers were not accepted this year can profit from reviews and feedback, and we hope to see you in 2024!

We would particularly like to thank the amazing pool of 1935 reviewers, who made the conference possible, with their time devoted to such careful assessment of the papers assigned to them. Much of the heavy lifting in the review process fell on the 44 Senior Area Chairs, and we are extremely grateful to them for their efforts and time in assigning and negotiating the reviews. We would also like to express our thanks to various members of the organizing committee, who have helped out in many different ways, at all the various stages in planning, organization, and implementation of the conference: the General Co-Chairs, Nicoletta Calzolari (The National Research Council, Italy), Chu-Ren Huang (Hong Kong Polytechnic Univ., HongKong);

Local Organization Co-Chairs: Key-Sun Choi (KAIST, Korea), Pum-Mo Ryu (Busan Univ. of Foreign Studies, Korea). Workshop Chairs: Sadao Kurohashi (Kyoto Univ., Japan), Patrizia Paggio (University of Copenhagen, Denmark, L'Universitata Malta, Malta), Nianwen Xue (Brandeis University, USA); Tutorial Chairs: Hsin-Hsi Chen (National Taiwan Univ., Taiwan), Lucia Donatelli (Saarland Univ., Germany), Heng Ji (Univ. of Illinois at Urbana-Champaign, USA); Sponsorship

Co-Chairs: Zhong He (Baidu, China), Tony Kyungil Lee (Saltlux, Korea), Enrico Santus (Bayer-Global, Germany); Web Chair: Sung-Pil Choi (Kyonggi Univ., Korea); Virtual Infrastructure Co-Chairs: Seokhwan Kim (Amazon Alexa AI, USA), Younggyun Hahm (teddysum, Korea); Virtual Social Chair: Chanjun Park (Upstage, Korea Univ., Korea); Ethics Board: Nikhil Krishnaswamy (Colorado State Univ., USA), Constantine Lignos (Brandeis Univ., USA), Donia Scott (Univ. of Sussex Falmer, UK); Publicity Chair: Huyen Nguyen Thi Minh (Vietnam National Univ., Vietnam); Publication Co-Chairs: Francis Bond (Palacký Univ. Olomouc, Czechia), Seung-Hoon Na (Jeonbuk National Univ., Korea); Diversity Co-Chairs: Lori Levin (Carnegie Mellon Univ., USA), Rachel Roxas (National Univ., Philippines); Handbook Chair: Eun-kyung Kim (Daejeon Univ., Korea); Industry Session Chair: Yuseop Kim (Hallym Univ., Korea); Student Volunteer Chair: Jin Young Yeo (Yonsei Univ., Korea); Poster Session Chair: Hyun-Je Song (Jeonbuk Nat'l Univ., Korea).

We are particularly excited and grateful to the three keynote speakers for this year's conference: Martha Palmer from University of Colorado Boulder, USA; Marco Baroni from ICREA and Pompeu Fabra University, Spain; and Kentaro Inui from Tohoku University and RIKEN, Japan. This year, COLING, as part of its theme, is addressing the seven societal Grand challenges: Health, demographic change and wellbeing; Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy; Secure, clean and efficient energy; Smart, green and integrated transport; Climate action, environment, resource efficiency and raw materials; Changing world – inclusive, innovative and reflective societies; Secure societies – protecting freedom and security of the world. To this end we have two Grand Challenge invited speakers: Ping Li from The Hong Kong Polytechnic University, Hong Kong, and Helen Meng from The Chinese University of Hong Kong. In addition, we

have organized five paper sessions focusing on one of these grand challenge themes.

To all of those mentioned above, we again express our deepest thanks for helping in so many different ways, to make COLING 2022 a memorable event, and a return to an in-person conferencing experience. We hope you enjoy the conference.

Hansaem Kim

James Pustejovsky

Leo Wanner

COLING 2022 Program Committee Co-Chairs

Preface: Chair of the ICCL

This conference is the 29th in the COLING series. The first COLING took place in New York in 1965, and since the 6th COLING in Ottawa (1976), the conference has been held regularly once every two years. The initial phase of COLING established computational linguistics as an academic discipline and subsequently, during its long history, the conference series has broadened its scope to become truly interdisciplinary, allowing researchers with interests in diverse aspects of language and its processing to get together and exchange their insights and ideas.

COLING provides participants with a venue in which to learn about the most recent and prominent research achievements in broad areas of computational linguistics and natural language processing. More importantly, through interaction with researchers from different disciplines and with different perspectives, participants form new insights/ideas and gain long-term research perspectives. While a divergence of science and engineering in our field is becoming increasingly prominent⁽¹⁾, the ICCL (International Committee of Computational Linguistics), under the auspices of which the COLING series is organized, believes that interaction among researchers of different disciplines is more important than ever.

As an informal, voluntary-based committee, the ICCL relies heavily on the ingenuities of local hosts, who have organized their COLING conferences with unique attributes. The format and characteristics of COLING have evolved thanks to the bottom-up initiatives of local hosts and program chairs, and through their interaction with the ICCL. This is particularly true for this year's COLING: due to the ever-changing situation around the pandemic and the rapid expansion of our field, we have had to make difficult decisions and to improvise solutions to allow for unpredictable events. We owe a great deal to the ingenuity and flexibility of our colleagues in Korea. On behalf of the ICCL, I would like to express our sincere gratitude to the local organizing committee and to the chair, Professor Key-Sun Choi.

I would also like to extend my gratitude to the two members of ICCL who take on the role of General Co-Chairs: Professors Nicoletta Calzolari and Chu-Ren Huang. Without them, it would be impossible to coordinate the many committees and people involved in this conference.

Thanks to the tremendous efforts of all those involved, I am convinced that we will experience a fantastic conference, which will be both scientifically exciting and full of fond memories.

I extend a warm welcome to all of you, and hope that you enjoy the conference!

Junichi Tsujii, Chair of the ICCL

(1) Tsujii, Junichi: Natural language Processing and Computational Linguistics, Computational Linguistics (2021) 47 (4): 707–727. <https://direct.mit.edu/coli/article/47/4/707/107177/Natural-Language-Processing-and-Computational>

ICCL : Aravind Joshi, Petr Sgall, Makoto Nagao and Martin Kay

The ICCL (International Committee of Computational Linguistics) was formed with the aims of running the COLING conference series and of maintaining the continuity of its spirits, e.g., pioneering new research fields, facilitating interaction among participants with diverse interests, respecting the equality of all languages, recognizing the potential value of non-mainstream research, etc.

To reflect the interdisciplinarity which we believe is crucial for COLING, the ICCL is comprised of members from diverse fields, e.g., theoretical linguistics, corpus linguistics, artificial intelligence, cognitive science, machine translation, language engineering, etc. (1);

Although ICCL membership is for life, the long history of the committee inevitably means that we have lost some of its members over time. In particular, recent years have witnessed the loss of four highly respected members: Aravind Joshi (2017), Petr Sgall (2019), Makoto Nagao (2021) and finally Martin Kay (2021), who had been the longest serving Chair of the ICCL when he stepped down in 2014.

All four of these venerable individuals showed strong intellectual leadership and inspired many researchers to follow them in forming their own schools of thoughts. They enriched the fields of computational linguistics and natural language processing by exploring new ideas and establishing new research areas: tree adjoining grammar, cognitive models, discourse annotation (Aravind Joshi⁽²⁾); functional generative description, functional view of Prague school of linguistics (Petr Sgall⁽³⁾); example-based machine translation, language engineering, digital libraries (Makoto Nagao⁽⁴⁾); parsing, feature-based grammar formalisms, man-machine cooperation in translation (Martin Kay⁽⁵⁾). Current members of the ICCL inherit not only their research achievements, but also their valuable insights into language and their collective conceptions about the directions that our research fields should take. We, the members of the ICCL, are ready to carry the torch that they have handed to us.

Junichi Tsujii, Chair of the ICCL

(1) Members of the ICCL: <https://ufal.mff.cuni.cz/iccl/committee-members>

(2) Aravind Joshi: <https://almanac.upenn.edu/articles/aravind-joshi-engineering>

(3) Petr Sgall: <https://ufal.mff.cuni.cz/petr-sgall>

(4) Makoto Nagao: <https://nagao-memorial.kuee.kyoto-u.ac.jp/en/>

(5) Martin Kay: <https://direct.mit.edu/coli/article/48/1/1/108842/Obituary-Martin-Kay>

Preface: Local Chairs

We are happy to be able to hold the conference at a time when the Covid-19 situation has subsided and the freedom to enter and leave Korea is increasing without PCR test. Since the organizing committee has held weekly meetings since last year's August, the leaves of trees change from summer to autumn, winter, spring, summer, and autumn again, and now they are turning into beautiful autumn leaves.

You are in Gyeongju, the capital of the 1000-year-old Kingdom of Shilla¹ (BC57-AD935). In Silla, the Idu script² was used, and it is said to be a phonetic symbol derived from Chinese characters. The current Korean alphabet Hangul is a character set invented based on linguistics. For example, the letter corresponding to 'g' is 'ㄱ', which describes the shape of the tongue in the mouth when the sound 'g' is made. Each letter was made according to the principle and shape of the vocal organs, so that Hangul was created to be able to use all human pronunciations as a phonetic symbol.

This COLING 2022 begins in the week of Hangul Day. The 9th of October is a national holiday to commemorate the creation and proclamation of Hangul³ (AD 1446) in the Basic Law of the Korean Language.

The number of Korean speakers is about 77.3 million, which ranks 14th among all languages in the world, but the proportion is only 1.004%. Although the amount of Korean corpora is overwhelmingly smaller in quantity and diversity compared to English data, the data for natural language processing in Korean language is increasing, centering on the National Institute of the Korean Language⁴. It is open to researchers.

Although there were many difficulties in organizing the conference due to the Covid-19 Pandemic, we are very happy that many papers have been submitted and that we have been able to support the presentation. We would like to thank those who come in person even from the Covid-19 situation, and we are trying to do our best for those who participate online.

In particular, we would like to thank Nicoletta Calzorari and Chu-Ren Huang for their active support, who conducted on-site due diligence for this COLING to be held in the year 2018 and also served as the general chairs. We would like to thank Hansaem Kim, Leo Wanner and James Pustejovsky, program chairs. Since the beginning of September last year, the General co-chairs and the Program co-chairs have held weekly meetings every Thursday, thanking you for designing and implementing every step of the way, including home page, sponsoring, CFP, grand-challenge theme setting, reviewing and all of the matters. Hansaem Kim, as a program co-chair and as a key executive of the local organizer, put all her heart into every detail.

The local organizing committee has held weekly meetings every Tuesday since last August. Attended weekly meetings of this local organization we would like to express deep thanks to Hansaem Kim, who was in charge of both the Program chair and local organizing, Industry session chair Yuseop Kim, Virtual social chair Chanjun Park, Sponsoring chair Tony Kyungil Lee, Virtual Platform chairs Seokhwan Kim and Young-gyun Hahm, Web chair Sung-pil Choi, Publication chairs Francis Bond and Seung-Hoon Na, Handbook chair Eun-Kyung Kim, Poster session chair Hyun-Je Song and all the members.

First of all, I would like to thank Dr. Jae-Gil Choi of HICO for encouraging and supporting the Korean hosting of COLING 2022. Also, I would like to thank Genicom for preparing the conference and Underline for the online conference.

This conference would not have been possible without the support of sponsors: Naver, Line, KISTI,

¹<https://en.wikipedia.org/wiki/Silla>

²https://en.wikipedia.org/wiki/Idu_script

³<https://en.wikipedia.org/wiki/Hangul>

⁴<https://corpus.korean.go.kr/>

and all of the industries, institutes, universities, and government. We would like to express our deepest gratitude to the Korean Institute of Information Scientists and Engineers⁵ for their support as the conference host, and to Gyeongju City for their full and attractive support.

Key-Sun Choi and Pum-Mo Ryu
Local Organization Chairs of COLING 2022

⁵<https://www.kiise.or.kr/>

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