Introduction

On behalf of the program committee, I am pleased to welcome you to the 21st Nordic Conference on Computational Linguistics (NoDaLiDa 2017), held at the Wallenberg Conference Center in the beautiful city of Gothenburg in Sweden, on May 22–24, 2017. The proceedings are published as part of the NEALT Proceedings Series by Linköping University Electronic Press and they will also be available from the ACL Anthology together with the proceedings of the co-located workshops. The NoDaLiDa conference has been organized bi-annually since 1977 and returns to this anniversary event after 40 years back to Gothenburg, where it started as a friendly gathering to discuss on-going research in the field of computational linguistics in the Nordic countries. The Northern European Association for Language Technology (NEALT) was founded later in 2006, which is now responsible for organizing NoDaLiDa among other events in the Nordic countries, the Baltic states and Northwest Russia. Since the early days, NoDaLiDa has grown into a recognized international conference and the tradition continues with the program of this year's conference. It is a great honor for me to serve as the general chair of NoDaLiDa 2017 and I am grateful for all the support during the progress.

Before diving deeper into the acknowledgements, please, let me first briefly introduce the setup of the conference. Similar to the last edition, we included different paper categories to be presented: Regular long papers, student papers, short papers and system demonstration papers. Regular papers are presented orally during the conference and short papers received a slot in one of the two poster sessions. System demonstrations are given at the same time as the posters. We selected two student papers for an oral presentation and three student papers for poster presentations. In total, we received 78 submissions and accepted 49. The submissions included 32 regular papers (21 accepted, 65.6% acceptance rate), 8 student papers (5 accepted, 62.5% acceptance rate), 27 short papers (12 accepted, 44.4% acceptance rate) and 11 system demonstration papers (which we accepted all).

In addition to the submitted papers, NoDaLiDa 2017 also features invited keynote speakers – three distinguished international researchers: Kyunghyun Cho from New York University, Sharon Goldwater from the University of Edinburgh and Rada Mihalcea from the University of Michigan. We are excited about their contributions and grateful for their participation in the conference.

Furthermore, four workshops are connected to NoDaLiDa 2017: The First Workshop on Universal Dependencies (UDW 2017), the Joint 6th Workshop on NLP for CALL and 2nd Workshop on NLP for Research on Language Acquisition (NLP4CALL & LA), the Workshop on Processing Historical Language and the Workshop on Constraint Grammar - Methods, Tools, and Applications. We would like to thank the workshop organizers for their efforts in making these events happen enriching the whole conference and its scientific coverage.

Finally, I would also like to thank the entire team behind the conference. Organizing such an event is a complex process and would not be possible without the help of many people. I would like to thank all members of the program committee, especially Beáta Megyesi for a smooth transition from the previous NoDaLiDa and all her valuable input coming from the organization of that event, Inguna Skadiņa for taking care of the submission system EasyChair, Lilja Øvrelid for the publicity and calls that we need to send out. My greatest relieve from organisational pain came from the professional local committee in Gothenburg. It is a pleasure to work together with their team and without the hard work of the local organizers we could not run the event in any way. Thank you very much and especially thanks to Nina Tahmasebi for leading the local team. All names are properly listed below and I am grateful to all of you and your efforts. I would also like to acknowledge the large number of reviewers and sub-reviewers for their assessment of the submissions, NEALT for backing up the conference, Linköping University Press for publishing the proceedings as well as people behind the ACL Anthology for offering the space for storing our publications. And, last but not least, I would also thank our sponsors for all the financial

support, which really helped us to organize a pleasant and affordable meeting.

With all of these acknowledgments, and with my apologies for forgetting to mention many names that should be listed here, I would like to wish you all, once again, a fruitful conference and a nice stay in Gothenburg. And I wish you a lot of pleasure with reading the contributions in this volume especially if you, for whatever reason, happen to read this welcome address after the conference has already ended.

Jörg Tiedemann (general chair of NoDaLiDa 2017)

Welcome Message by the Local Organizers

40 years ago, the first NoDaLiDa conference took place here in Gothenburg, arranged by what is now Språkbanken, the Swedish Language Bank. The aim of the conference was to bring together researchers from the five Nordic countries to discuss all aspects of language technology. Experiences and results with respect to the Nordic languages would benefit from being shared, compared and discussed. The community has grown and expanded since; today, NoDaLiDa brings together researchers and practitioners from 23 countries and a diverse field of studies. The first meeting attracted over 60 people and the current installment has more than doubled that amount. Though the field has developed, many of the topics raised in 1977 are still highly relevant and interesting today. For example, the creation of lexical resources, sense disambiguation and syntactic analysis, and analysis of large amounts of text. To celebrate the 40th anniversary of NoDaLiDa, we are happy to welcome you back to Gothenburg and this 21st edition of the conference. We hope that Gothenburg will show its most beautiful side, offering you sunshine, vast views of the sea and good food. We hope that you will enjoy interesting talks, posters and workshops during these three days of NoDaLiDa, which will provide inspiration in the 40 years to come. Welcome!

Nina Tahmasebi
Yvonne Adesam
Martin Kaså
on behalf of the local organizers