Preface

The

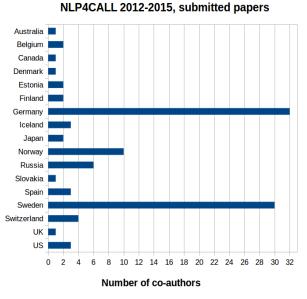
The workshop series on Natural Language Processing (NLP) for Computer-Assisted Language Learning (CALL) – NLP4CALL – is a meeting place for researchers working on the integration of Natural Language Processing and Speech Technologies in CALL systems and exploring the theoretical and methodological issues arising in this connection.

The first four editions of this workshop series¹ enjoyed have attracted participants from all over the world, including researchers from Australia, Canada, Central, of affiliation South and Northern Europe, Russia as well as USA (see the country figure on the right). The workshops have shown the vast Co-authors' potential that Language Technology holds for language learning and – most importantly – the interest that LT researchers have in the domain of CALL.

of

Natural

Co-authors' affiliations



Language Processing and Speech Technology, with Computer-Assisted Language Learning (CALL) brings "understanding" of language to CALL tools, thus making CALL intelligent. This fact has provided the name for this area of research – Intelligent CALL, ICALL. As the definition suggests, apart from having excellent knowledge of Natural Language Processing and/or Speech Technology, ICALL researchers need good insights into second language acquisition (SLA) theories and practices, as well as knowledge of second language pedagogy and didactics. This workshop covers therefore all ICALL-relevant research areas, including studies where NLP-enriched tools are used for testing SLA and pedagogical theories, and vice versa, where SLA theories/pedagogical practices are modeled in ICALL tools.

This year we welcomed papers

intersection

- that describe research directly aimed at ICALL,
- that demonstrate actual or discuss potential use of existing Speech Technologies, NLP tools or resources for language learning,
- that describe ongoing development of resources and tools with potential usage in ICALL, either directly in interactive applications, or indirectly in materials, application or curriculum development, e.g. collecting and annotating ICALL-relevant corpora; developing tools and algorithms for readability analysis, selecting optimal corpus examples, etc.

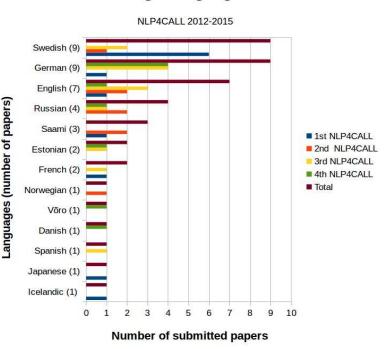
^{1 &}lt;http://www.spraakbanken.gu.se/icall>

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- that discuss challenges and/or research agenda for ICALL
- · we were also interested in software demonstrations

We especially invited submissions describing the above-mentioned themes for the Nordic languages.

Submissions to the four workshop editions have targeted a wide variety of languages, ranging from well-resourced languages (German, English, French, Russian, Spanish) to under-resourced ones (Estonian, Saami, among which Võro), several Nordic languages have been Danish. targeted: Estonian, Icelandic, Norwegian, Saami, Swedish, and Võro (see the figure to the right).



Target languages

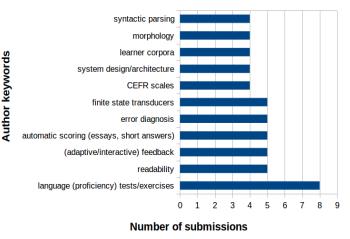
Up to date, the top 5 topics that have dominated the workshop submissions include the

generation of language tests and exercises, readability studies, the generation of interactive feedback, the automatic scoring of essays and short answers, and error diagnosis (see more topics in the figure to the right).

The workshop series on NLP for CALL is organized by a Special Interest Group on Intelligent Computer-Assisted Language Learning (SIG-ICALL of NEALT)², and it has

Top 11 ICALL areas (author keywords)

NLP4CALL 2012-2015



received financial support from the Centre for Language Technology at the University of Gothenburg, Sweden (CLT)³.

Proceedings of the 4th workshop on NLP for Computer Assisted Language Learning at NODALIDA 2015

^{2 &}lt;http://spraakbanken.gu.se/swe/forskning/ICALL/SIG-ICALL>

^{3 &}lt;http://clt.gu.se/>

We intend to continue this workshop series, which up to date has been the only ICALLrelevant recurring event based in the Nordic countries. Our intention is to co-locate the workshop series with the two major biennial LT events in Scandinavia, the Swedish Language Technology Conference, SLTC, and the Nordic Conference of Language Technology, NODALIDA, thus making this workshop an annual event. Through this workshop, we intend to profile ICALL research in the Nordic countries and to provide a dissemination venue for researchers active in this area.

Our special thanks go to the program committee members who have put in a major effort reviewing the submissions:

- Lars Ahrenberg, Linköping University, Sweden
- Eckhard Bick, University of Southern Denmark, Denmark
- Lars Borin, University of Gothenburg, Sweden
- Antonio Branco, University of Lisbon, Portugal
- Frederik Cornillie, KU Leuven Kulak, Belgium
- Piet Desmet, KU Leuven Kulak, Belgium
- Simon Dobnik, University of Gothenburg, Sweden
- Robert Eklund, Linköping University, Sweden
- Thomas François, UCLouvain, Belgium
- Katarina Heimann Mühlenbock, DART, Sahlgrenska Universitetssjukhuset, Sweden
- Kris Heylen, KU Leuven, Belgium
- Sofie Johansson Kokkinakis, University of Gothenburg, Sweden
- Chris Koniaris, University of Gothenburg, Sweden
- Staffan Larsson, University of Gothenburg, Sweden
- Montse Maritxalar, University of the Basque country, Spain
- Detmar Meurers, University of Tübingen, Germany
- Martí Quixal, University of Tübingen, Germany
- Martin Russell, University of Birmingham, UK
- Mathias Schulze, University of Waterloo, Canada
- Joel Tetreault, Yahoo! Labs, USA
- Trond Trosterud, Universitetet i Tromsø, Norway
- Cornelia Tschichold, Swansea University, UK
- Francis Tyers, The Arctic University of Norway, Norway
- Elena Volodina, University of Gothenburg, Sweden
- Robert Östling, Stockholm University, Sweden

The workshop organizers Elena Volodina, Lars Borin, Ildikó Pilán

Workshop website: http://spraakbanken.gu.se/eng/research/icall/4thnlp4call

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