

# Welcome!

On behalf of the organizers we welcome you to the 18th Nordic Conference of Computational Linguistics!

NODALIDA conference series started in 1977 in Gothenburg and have been held every second year in one of Nordic countries. Through the establishment of the Northern European Association of Language Technology (NEALT) in 2006, the NODALIDA conference has increased its importance and is now recognized outside the Nordic regions. In 2007 the NODALIDA conference for the first time took place in Baltic states, in Estonia. Now on May 11-13, 2011 the NODALIDA 2011 takes place again in a Baltic state, this time in Riga, Latvia.

The papers selected for the NODALIDA 2011 conference represent a wide range of topics of research: corpus linguistics, lexicography, morphological and syntactic processing, machine translation, speech technologies, semantics, and other areas of the HLT research. For the conference program 53 papers are accepted out of 81 submitted contributions from 20 countries.

We also have the pleasure of presenting three invited speakers at NODALIDA 2011, one of which is invited to present ongoing research in the host country, Latvia, and two others to present ongoing research in Sweden and Scotland, respectively. The invited talks concern central aspects of language technology such as discourse analysis, dependency parsing, and controlled natural languages.

In addition, the conference program includes three workshops; two on the specialized topics terminology and constraint grammar, and one with the broader focus on visibility of language resources.

We would like to thank all the members of the Programme Committee for their invaluable contribution. Special thanks go to Mare Koit, Editor in Chief of the NEALT Publication Series at University of Tartu, for producing the electronic proceedings.

A particular thank goes to University of Latvia in particular Juris Borzovs who granted us the opportunity to use their rooms as well as their technical facilities.

We also want to thank the Local Organization Committee at the Institute of Mathematics and Computer Science (IMCS) of University of Latvia for their excellent work on the conference organization.

We wish all of participants an excellent and enjoyable conference!

*Inguna Skadiņa*  
*Local Chair*  
*NODALIDA 2011*

*Bolette Sandford Pedersen*  
*Program Chair*  
*NODALIDA 2011*

# Committees

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# Conference program overview

	<b>May 11</b>	<b>May 12</b> (see p.5–8)	<b>May 13</b> (see p.9–12)	
9.00	Creation, Harmonization and Application of Terminology Resources CHAT 2011 <i>Museum Hall</i> (see p.11) Workshop on Constraint Grammar (see p.13) Workshop on visibility and availability of LT resources (see p.14)	<b>Opening</b>	<b>Invited talk</b> <i>Small Hall</i> Coffee <i>Small Hall</i> Room 240 Coffee Room 240 Lexicon, etymology <i>Auditorium 16</i> Machine translation; classification <i>Museum Hall</i> Student papers Room 205 Lunch Posters and demos <i>Museum Hall</i> NEALT business meeting <i>Small Hall</i> Closing <i>Small Hall</i> Coffee Room 240	9.00
9.15		9.15		
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18.45	18.45			
19.00	19.00			
19.15	19.15			
19.30	19.30			
	<i>Welcome reception</i>	<i>Conference dinner</i>		

# Conference program

## May 11

### Satellite events

- 9.00–17.00    **Workshops**
- Creation, Harmonization and Application of Terminology Resources CHAT 2011    *Museum Hall*
- Workshop on Constraint Grammar    *Room 205*
- Workshop on Visibility and Availability of LT resources    *Auditorium 16*
- 19.00    **Welcome Reception**    *Albert Hotel  
Dzirnavu iela 33*

## May 12

- 9.00–9.30    **Opening**    *Small Hall*
- Mārcis Auziņš (Rector of the University of Latvia)  
Janne Bondi Johannessen (President of NEALT)  
Inguna Skadiņa (Chair of the Local Organizing Committee)  
Bolette Sandford Pedersen (Chair of the Program Committee)
- 9.30–10.30    **Invited Talk**    *Small Hall*
- Chair: Costanza Navarretta
- Prof. Bonnie Webber (University of Edinburgh). *Discourse Structures and Language Technologies*
- 10.30–11.00    *Coffee*    *Room 240*

## 11.00–13.00 **Parallel Sessions: Regular Papers**

<b>Corpus creation, annotation and use</b>		<i>Auditorium 16</i>
Chair: Eiríkur Rögnvaldsson		
11.00–11.30	Costanza Navarretta, Elisabeth Ahlsén, Jens Allwood, Kristiina Jokinen and Patrizia Paggio. <i>Creating Comparable Multimodal Corpora for Nordic Languages</i>	
11.30–12.00	Rico Sennrich and Martin Volk. <i>Iterative, MT-based Sentence Alignment of Parallel Texts</i>	
12.00–12.30	Estelle Delpech. <i>Evaluation of Terminologies Acquired from Comparable Corpora: an Application Perspective</i>	
12.30–13.00	Janne Bondi Johannessen and Emiliano Raúl Guevara. <i>What kind of corpus is a web corpus?</i>	
<b>Text and language classification</b>		<i>Museum Hall</i>
Chair: Hanne Fersøe		
11.00–11.30	Taraka Rama and Lars Borin. <i>Estimating Language Relationships from a Parallel Corpus. A Study of the Europarl Corpus</i>	
11.30–12.00	Robert Remus. <i>Improving Sentence-level Subjectivity Classification through Readability Measurement</i>	
12.00–12.30	Michael Wiegand and Dietrich Klakow. <i>Convolution Kernels for Subjectivity Detection</i>	
<b>Morphology and POS tagging</b>		<i>Room 205</i>
Chair: Janne Bondi Johannessen		
11.00–11.30	Miikka Silfverberg and Krister Lindén. <i>Combining Statistical Models for POS Tagging using Finite-State Calculus</i>	
11.30–12.00	Niels Beuck, Arne Köhn and Wolfgang Menzel. <i>Decision Strategies for Incremental POS Tagging</i>	
12.00–12.30	Anssi Yli-Jyrä. <i>Explorations on Positionwise Flag Diacritics in Finite-State Morphology</i>	
12.30–13.00	Heiki-Jaan Kaalep and Kadri Muischnek. <i>Morphological Analysis of a Non-Standard Language Variety</i>	

13.00–14.00 *Lunch*

**Wordnets and lexical issues**

Kristiina Muhonen and Krister Lindén. *Do wordnets also improve human performance on NLP tasks?*

Loïc Boizou. *The Formal Patterns of the Lithuanian Verb Forms*

Hector Martinez Alonso, Núria Bel and Bolette Sandford Pedersen. *Identification of Sense Selection in Regular Polysemy using Shallow Features*

Anders Johannsen and Bolette Sandford Pedersen. *“Andre ord” — a Wordnet Browser for the Danish Wordnet, DanNet (DEMO)*

**Syntax**

Anne Bjerre. *Extraction from Relative and Embedded Interrogative Clauses in Danish*

Martin Hassel, Aron Henriksson and Sumithra Velupillai. *Something Old, Something New — Applying a Pre-trained Parsing Model to Clinical Swedish*

Atro Voutilainen and Tanja Purtonen. *A Double-blind Experiment on Interannotator Agreement: the Case of Dependency Syntax and Finnish*

Lauma Pretkalniņa, Gunta Nešpore, Kristīne Levāne-Petrova and Baiba Saulīte. *A Prague Markup Language Profile for the SemTi-Kamols Grammar Model*

Daiga Deksnē and Raivis Skadiņš. *CFG Based Grammar Checker for Latvian*

**Morphology**

Sami Virpioja, Oskar Kohonen and Krista Lagus. *Evaluating the Effect of Word Frequencies in a Probabilistic Generative Model of Morphology*

Tommi Pirinen. *Modularisation of Finnish Finite-State Language Description — Towards Wide Collaboration in Open Source Development of a Morphological Analyser*

**Machine translation**

Sara Stymne. *Iterative Reordering and Word Alignment for Statistical MT*

## 15.45–17.15 **Parallel Sessions: Regular Papers**

<b>Speech</b>		<i>Auditorium 16</i>
Chair: Meelis Mihkla		
15.45–16.15	Sofia Strömbergsson. <i>Corrective Re-synthesis of Deviant Speech Using Unit Selection</i>	
16.15–16.45	Peter Juel Henriksen. <i>Fishing in a Speech Stream, Angling for a Lexicon</i>	
16.45–17.15	Bea Valkenier, Dirkjan Krijnders, Ronald van Elburg and Tjeerd Andringa. <i>Psycho-Acoustically Motivated Formant Feature Extraction</i>	
<b>Search and information extraction</b>		<i>Museum Hall</i>
Chair: Costanza Navarretta		
15.45–16.15	Lars Borin, Markus Forsberg and Christer Ahlberger. <i>Semantic Search in Literature as an e-Humanities Research Tool: CONPLISIT — Consumption Patterns and Life-Style in 19th Century Swedish Literature</i>	
16.15–16.45	Silja Huttunen, Arto Vihavainen and Roman Yangarber. <i>Relevance Prediction in Information Extraction Using Discourse and Lexical Features</i>	
16.45–17.15	Gintarė Grigonytė, Erika Rimkutė, Andrius Utka and Loïc Boizou. <i>Experiments on Lithuanian Term Extraction</i>	
<b>Syntax, indexing</b>		<i>Room 205</i>
Chair: Jussi Karlgren		
15.45–16.15	Peter Ljunglöf. <i>Editing Syntax Trees on the Surface</i>	
16.15–16.45	Anders Søgaard. <i>Using Graphical Models for PP Attachment</i>	
16.45–17.15	Erik Velldal. <i>Random Indexing Re-Hashed</i>	

## 17.15–18.15 **Invited Talk** *Small Hall*

Chair: Inguna Skadiņa

Prof. Guntis Bārzdīņš (University of Latvia). *When FrameNet Meets a Controlled Natural Language*

19.30 **Conference Dinner** *Restaurant Rozengrāls  
Rozena iela 1*



# May 13

9.00–10.00 **Invited Talk** *Small Hall*  
Chair: Kristiina Jokinen  
Prof. Joakim Nivre (Uppsala University). *Bare-Bones Dependency Parsing — A Case for Occam's Razor?*

10.00–10.30 *Coffee* *Room 240*

## 10.30–12.00 **Parallel Sessions: Regular and Student Papers**

<b>Lexicon, etymology</b> <span style="float: right;"><i>Auditorium 16</i></span>	
Chair: Bolette Sandford Pedersen	
10.30–11.00	Eckhard Bick. <i>A FrameNet for Danish</i>
11.00–11.30	Ingemar Hjälmsstad, Martin Hassel and Maria Skeppstedt. <i>The Impact of Part-of-Speech Filtering on Generation of a Swedish-Japanese Dictionary using English as Pivot Language</i>
11.30–12.00	Hannes Wettig and Roman Yangarber. <i>Probabilistic Models for Alignment of Etymological Data</i>
<b>Machine translation; classification</b> <span style="float: right;"><i>Museum Hall</i></span>	
Chair: Andrejs Vasiljevs	
10.30–11.00	Martin Volk and Rico Sennrich. <i>Disambiguation of English Contractions for Machine Translation of TV Subtitles</i>
11.00–11.30	Raivis Skadiņš, Tatiana Gornostay and Valters Šics. <i>Toponym Disambiguation in English-Lithuanian SMT System with Spatial Knowledge</i>
11.30–12.00	Eirini Florou and Stasinios Konstantopoulos. <i>A Quantitative and Qualitative Analysis of Nordic Surnames</i>
<b>Student papers</b> <span style="float: right;"><i>Room 205</i></span>	
Chair: Normunds Grūzītis	
10.30–11.00	Marius Olausen. <i>Evaluating the Speech Quality of the Norwegian Synthetic Voice Brage</i>
11.00–11.30	Mojgan Seraji. <i>A Statistical Part-of-Speech Tagger for Persian</i>
11.30–12.00	Angel Genov and Georgi Iliev. <i>Linguistic Motivation in Automatic Sentence Alignment of Parallel Corpora: the Case of Danish-Bulgarian and English-Bulgarian</i>

12.00–13.00 *Lunch*

13.00–14.30 **Posters and Demos**  
Chair: Kristiina Jokinen

*Museum Hall*

### **Classification and summarization**

Christian Smith and Arne Jönsson. *Automatic Summarization as Means of Simplifying Texts, an Evaluation for Swedish*

Per Almqvist and Jussi Karlgren. *Experiments to Investigate the Utility of Nearest Neighbor Metrics Based on Linguistically Informed Features for Detecting Textual Plagiarism*

Jody Foo. *A Categorization Scheme for Analyzing Rules from a Handbook of Swedish Writing Rules*

Anju Saxena and Lars Borin. *Dialect Classification in the Himalayas: a Computational Approach*

### **Knowledge systems**

Ann-Marie Eklund. *Query Constraining Aspects of Knowledge*

Kenneth Wilhelmsson. *Automatic Question Generation from Swedish Documents as a Tool for Information Extraction*

### **Corpus creation, annotation and use**

Christian Häning. *Knowledge-free Verb Detection through Sentence Sequence Alignment*

Maria Holmqvist and Lars Ahrenberg. *A Gold Standard for English-Swedish Word Alignment*

Anne-Kathrin Schumann. *Corpus-based Terminology: Detection, Description and Representation of Knowledge-rich Contexts in Russian*

### **Student posters**

Anastasia Shimorina and Maria Grachkova. *Identification of Context Markers for Russian Nouns*

Gideon Kotzé. *Finding Statistically Motivated Features Influencing Subtree Alignment Performance*

14.30–15.30 **NEALT Business Meeting**

*Small Hall*

15.30–16.00 **Closing**

*Small Hall*

16.00-16.30 *Coffee*

*Room 240*

# Creation, Harmonization and Application of Terminology Resources CHAT 2011

9.00–9.30     **Opening**  
Welcome and workshop presentation

9.30–11.00   **Invited Presentations**

9.30–10.15	Gerhard Budin. <i>Terminology Resource Development in Global Domain Communities – Practical Experiences, Case Studies and Conclusions for Future Projects</i>
10.15–11.00	Emmanuel Morin. <i>Bilingual Terminology Extraction from Comparable Corpora</i>

11.00–11.20   *Coffee* Room 240

11.20–13.00   **Paper Presentations**

11.20–11.40	Andrejs Vasiljevs, Tatiana Gornostay and Inguna Skadiņa. <i>From Terminology Database to Platform for Terminology Services</i>
11.40–12.00	Tine Lassen, Bodil Nistrup Madsen and Hanne Erdman Thomsen. <i>Automatic Knowledge Extraction and Knowledge Structuring for a National Term Bank</i>
12.00–12.20	Fabien Poulard, Beatrice Daille, Christine Jacquin, Laura Monceaux, Emmanuel Morin and Helena Blancafort. <i>Comparability Measurement for Terminology Extraction</i>
12.20–12.40	Magnus Merkel and Henrik Nilsson. <i>Getting to Terms with Terminology at Swedish Public Agencies</i>
12.40–13.00	Jody Foo. <i>Exploring Termhood Using Language Models</i>

13.00–14.00   *Lunch*

14.00–15.20 **Paper Presentations**

- |             |  |
|-------------|--|
| 14.00–14.20 | Georg Löckinger. <i>User-Oriented Data Modelling in Terminography: State-of-the-Art Research on the Needs of Special Language Translators</i>  |
| 14.20–14.40 | Anna Savina and Elena Yagunova. <i>The Experimental Study of Terminology Collocations: Calculations and Experiments with Informants</i>  |
| 14.40–15.00 | Lorna Balkan, Taina Jääskeläinen, Christina Frentzou and Chryssa Kappi. <i>European Language Social Science Thesaurus (ELSSST): Issues in Designing a Multilingual Tool for Social Science Researchers</i> |
| 15.00–15.20 | Dimitrios Kokkinakis. <i>Evaluating the Coverage of three Controlled Health Vocabularies with Focus on Findings, Signs &amp; Symptoms</i>  |

15.20–15.40 *Coffee*

*Room 240*

15.40–16.10 **Demonstration Presentations**

- |             |   |
|-------------|---|
| 15.40–15.55 | Tegau Andrews, Gruffudd Prys and Dewi Bryn Jones. <i>The Maes T System and its use in the Welsh-Medium Higher Education Terminology Project</i> |
| 15.55–16.10 | Balazs Kis and Peter Reynolds. <i>Web Based Terminology Management System and the Translation Market</i>  |

16.10–16.50 **Discussion Session**

Terminology resources and services of the future

16.50–17.00 **Closing**

## Workshop on Constraint Grammar

- 09.00–09.10 Trond Trosterud. **Opening statements**
- 09.10–09.40 Jose Mari Arriola and Linda Wiechetek. *An Experiment of Use and Reuse of Verb Valency in Morphosyntactic Disambiguation and Machine Translation for Basque and North Sámi*
- 09.40–10.10 Eckhard Bick. *The English Wikipedia in Esperanto*
- 10.10–10.30 *Coffee* Room 240
- 10.30–11.00 Lene Antonsen and Trond Trosterud. *Next to Nothing — a Cheap South Sami Disambiguator*
- 11.00–11.30 Kevin Donnelly and Margaret Deuchar. *Using Constraint Grammar in the Bangor Autoglosser to Disambiguate Multilingual Spoken Text*
- 11.30–12.00 Jackson Ssekiryango. *Towards a Luganda Constraint Grammar*
- 12.00–13.00 *Lunch*
- 13.00–13.30 Anssi Yli-Jyrä. *An Efficient Constraint Grammar Parser based on Inward Deterministic Automata*
- 13.30–14.00 Atro Voutilainen, Tanja Purtonen, Kristiina Muhonen and Mikaela Kumlander. *FinnTreeBank: Creating a Research Resource and Service for Language Researchers with Constraint Grammar*
- 14.00–14.30 Janne Peltonen. *Finite State Constraint Grammar Parser*
- 14.30–15.00 Janne Bondi Johannessen, Kristin Hagen, André Lynum and Anders Nøklestad. *OBT+Stat: Evaluation of a Combined CG and Statistical Tagger*
- 15.00–15.30 *Coffee* Room 240
- 15.30–16.00 Tino Didriksen. **Latest news**

## Workshop on Visibility and Availability of LT Resources

10.00–11.00 **Welcome**

### **Key-note presentation**

Francis Tyers. *The Only Option Is Open: Why Should Language Resources and Technology Be Free?*

11.00–11.30 *Coffee*

*Room 240*

11.30–12.30 Atro Voutilainen and Krister Lindén. *Finnish Language Bank: A Framework for Depositing and Disseminating Language Resources for R&D*

Markus Forsberg. *Green Resources in Plain Sight: Opening up the SweFN++ Project*

12.30–13.30 *Lunch*

13.30–15.00 Ville Oksanen and Krister Lindén. *Open Content Licenses — How to Choose the Right One*

Andrejs Vasiļjevs, Bolette Sandford Pedersen, Koenraad De Smedt, Lars Borin, Inguna Skadiņa. *META-NORD: Baltic and Nordic Branch of the European Open Linguistic Infrastructure*

Koenraad De Smedt and Eiríkur Rögnvaldsson. *The META-NORD Language Reports*

15.00–15.30 *Coffee*

*Room 240*

15.30–16.30 Per Langgård and Sjur Nørstebø Moshagen. *How Open Is Open — Visibility and Accessibility From a Minority Perspective*

16.30 **Open Discussion**

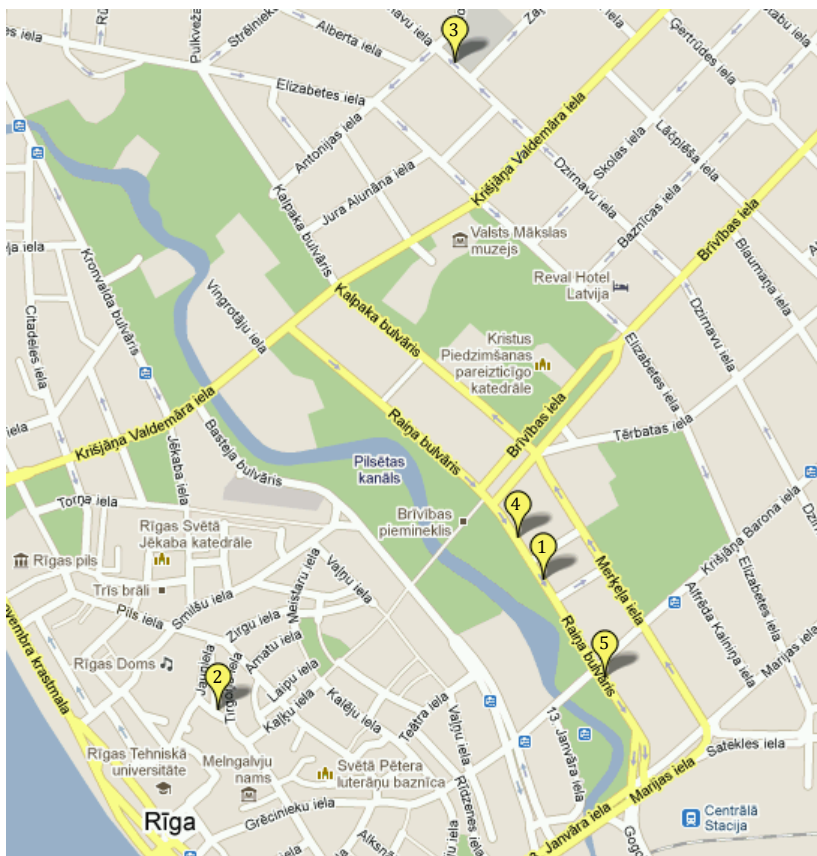
## Additional information

### Wireless internet at conference venue

access point: *LU-WIFI*

username: *wlan02*

password: *abols*



- 1 — Conference venue (Raina bulvāris 19) — *University of Latvia, the main building.*
- 2 — Conference dinner (Rozena iela 1) — *restaurant Rozengrāls.*
- 3 — Welcome reception (Dzirnavu iela 33) — *Hotel Alberts, 11th floor.*

### Suggested lunch places

- 1 — University of Latvia Canteen (Raina bulvāris 19) — *canteen in the cellar at the Conference venue.*
- 4 — Alus Ordenis (Raina bulvāris 15) — *national Latvian dishes in a medieval atmosphere.*
- 4 — Čili pica (Raina bulvāris 15) — *great variety of dishes, including pizzas, soups, salads, desserts, etc.*
- 5 — Double Coffee (Raina bulvāris 25) — *variety of coffee and dishes in a cosy interior.*

