

Curriculum Vitae

Els Lefever

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Born: 4 Jan 1975, Ieper, Belgium

Academic degrees

- 2012: Doctor of computer science - “ParaSense: Parallel Corpora for Word Sense Disambiguation”, Ghent University, faculty of sciences.
- 2007-2010: Postgraduate – doctoral school in computer science at Ghent University, faculty of sciences.
- 1993-1997: Bachelor and Master degree in romance linguistics and literature (major French and Italian linguistics) at Ghent University, cum laude.
Masters thesis: “La Polysémie des Adjectifs chromatiques”
- 1987-1993: Latin-Science-Mathematics at Sint-Aloysius college, Diksmuide.

Additional education

- 2015: “Presentation skills” (Ghent University, department of education – office for educational quality control).
- 2015: “Creativity, pitching & resilience course” (Ghent University, postdoc training).
- 2014: “The basics of University teaching” (Ghent University, department of education – office for educational quality control).
- 2012: online course on “Localisation” (Imperial College London).
- 2009-2010: “Computational Intelligence” (Ghent University, Department of Applied Mathematics & Computer Science).
- 2009: “Introduction to language technology” (Ghent University, collaboration of the doctoral schools of “Arts, Humanities and Law” and “natural sciences”).
- 2008: TILP-CLP localisation course - certified localization professionals.
- 2007-2008: “Programming I” (Ghent University, Department of Applied Mathematics & Computer Science).
- 2007: Workshop on “Machine Translation: finite-state models and statistical approaches” (Enrique Vidal, Universidad Politécnica de Valencia, Spain, doctoral school “Computational Intelligence and Learning doctoral school”, Louvain-la-neuve).
- 2006-2007: “Scripting Languages” (Ghent University, Department of Applied Mathematics & Computer Science).
- 1999: “Language and Computer Science” (Taal en Informatica, KATHO, Kortrijk), three modules:
 - Computational linguistics
 - Applied Statistics
 - Introduction to structured programming

Full Career

2013-now: Postdoctoral Researcher, Ghent University, Department of Translation, Interpreting and Communication, Language and Translation Technology Research Team (LT3)

1. Projects

- MuST (Multilingual Corpora for the automatic Structuring of Terms) HOF postdoc grant. The MuST project aims to extract all domain-specific terms from a multilingual technical corpus as well as the semantic relationships between these terms. The automatic detection of synonymy and hyponymy links allows taking an important step forward from a flat term list to a structured concept list. For the automatic terminology extraction and detection of semantic relations between the terms, I use a corpus-based approach without adding any external lexical resources. This turns it into a generic and language-independent approach, which allows deploying it dynamically to new domains or documents.
- SCATE (Smart Computer-Aided Translation Environment) IWT-SBO research project. The SCATE project focuses on developing innovative translation technology components and integrating them in a proof-of-concept system, a Smart Computer-Aided Translation Environment, which is a genuine support for the professional translator. My task in the project is to develop more sophisticated techniques for terminology extraction from comparable corpora.
- AMiCA (Automatic Monitoring for Cyberspace Applications) IWT-SBO project. The AMiCA project aims to mine relevant website resources (blogs, chat rooms and social networks), and collect, analyze, and integrate large amounts of subjective information using text and image analysis with the ultimate goal of tracing harmful content in an automatic way. My task in the project is to follow up the use case on cyber bullying.

2. Teaching: Localisation, Language Technology, Computer-assisted Translation, Methodological tools for Digital Humanities: Programming with Python, Introduction to translation technology (blended learning)

3. (Co-)promotor of Ph.D theses

- Cynthia Van Hee (2013-2016) prepares a Ph.D in the framework of the IWT SBO AMiCA project on the monitoring of unwanted content on social media, with a special focus on automatic sarcasm detection in a cyber-bullying use case.
- Jullie Mennes (2015-2019) prepares a Ph.D (FWO fellowship) on the development of a context-sensitive support tool prototype for interdisciplinary research using contemporary insights from computational linguistics and philosophy of science.
- Ayla Rigouts Terryn prepares a Ph.D proposal on automatic terminology extraction from comparable corpora.
- Gilles Jacobs prepares a Ph.D proposal on sentiment analysis of financial news text.

4. Member of the Doctoral Advisory Committee (DBC)

- Lore Vandevoorde (2013-2016) prepares a Ph.D. on the structure of semantic networks in translated and non-translated Belgian Dutch. She performs a corpus-

based investigation of prototype effects and the semantic range of polysemous and (near) synonymous lexemes.

- Pauline De Baets (2014-2017) prepares a Ph.D. on the structure of semantic networks in translated and non-translated Belgian Dutch by means of distributional techniques.
5. Member of the PhD examination commission of Orphée De Clercq: "Tipping the scales. Exploring the added value of deep semantic processing on readability prediction and sentiment analysis (2015).
 6. Promotor of various bachelor papers and master theses on word sense disambiguation, automatic hypernym detection and readability of company documents (in cooperation with Infrabel).

2007-2012: Research Assistant, University College Ghent, Faculty of applied linguistics, Language and Translation Technology Research Team (LT3)

1. HOF PhD grant: "ParaSense: Parallel corpora for Dutch Word Sense Disambiguation". My PhD research presents a truly multilingual machine learning approach to Word Sense Disambiguation (WSD), the NLP task that consists in selecting the correct sense of an ambiguous word in a given context. By recasting the task as a cross-lingual classification task that directly incorporates evidence from four other languages, it is a very flexible and language-independent approach that allows bypassing the knowledge acquisition bottleneck for WSD.
2. Research project for automatic terminology extraction based on parallel corpora, in cooperation with Peugeot-Citroën S.A. and Telelingua: "Etude doublons et synonymes thesaurus APV - Optimisation thesaurus".
3. Teaching: Localisation, Computer-assisted Translation, SDL Trados for professional translators (cooperation with Telelingua, March 2009), computational intelligence (Ghent University, department of applied mathematics and computer science).
4. Promotor of various bachelor papers and master theses on word sense disambiguation.

2001-2006: Scansoft Belgium BVBA, taken over in 2005 by Nuance International
Senior Linguist

Tasks:

- Training and management of junior colleagues
- Research projects for different text-to-speech modules (data driven modules for grapheme-to-phoneme conversion and grammatical analysis components, pattern matching based text normalization modules, etc).
- Project Management: various development and customer projects for text-to-speech systems for different languages (French, Irish English, Canadian French, Cantonese Chinese).

1997-2001: Lernout & Hauspie Speech Products
Computational linguist French and Italian

Tasks:

- Research projects for various languages

- Promocor: Italian part of a prosody project (funded by the IWT, Flemish government agency for Innovation by Science and Technology).
- Phonotop: French part of a grapheme-to-phoneme research project for toponyms (funded by the IWT)
- Development of various linguistic modules and speech databases for French, English and Italian text-to-speech systems.

Scientific output

1. Publications

A1 Publications

1. **Lefever, E.** A Hybrid Approach to Domain-independent Ontology Learning. *Journal of Applied Ontology*. Second reviewing cycle.
2. **Lefever, E.,** Van de Kauter, M., & Hoste, V. (2014). HypoTerm: detection of hypernym relations between domain-specific terms in Dutch and English. *Terminology*, 20 (2), special issue: Lexical-semantic Approaches to Terminology, 250-278. John Benjamins Publishing Company. Impact Factor 2013: 0.375.
3. **Lefever, E.,** & Hoste, V. (2014). Parallel corpora make sense: Bypassing the knowledge acquisition bottleneck for Word Sense Disambiguation. *International Journal of Corpus Linguistics*, 19 (3), 333-367. John Benjamins Publishing Company. Impact Factor 2013: 0.564.
4. Macken, L., **Lefever, E.** & Hoste, V. (2013). TExSIS: Bilingual Terminology Extraction from Parallel Corpora Using Chunk-based Alignment. *Terminology*, 19 (1), 1-30. John Benjamins Publishing Company, Amsterdam, Netherlands. Impact Factor 2013: 0.375.
5. **Lefever, E.,** Fayruzov, T., Hoste, V. & De Cock, M. (2010). Clustering Web People Search Results using Fuzzy Ants. *Information Sciences*, 180 (17), 3192-3209. Elsevier Science Inc., New York, USA. Impact Factor 2010: 2.836.
6. Hoste, V., Vanopstal, K., **Lefever, E.** & Delaere, I. (2010). Classification-based scientific term detection in patient information. *Terminology*, 16 (1), 1-29. John Benjamins Publishing Company, Amsterdam, Netherlands. Impact Factor 2010: 0.400.

A2 Publications

1. Van de Kauter, M., Coorman, G., **Lefever, E.,** Desmet, B., Macken, L., & Hoste, V. (2013). LeTs Preprocess: The multilingual LT3 linguistic preprocessing toolkit. *Computational Linguistics in the Netherlands Journal*, 3, 103-120.
2. **Lefever, E.** & Hoste, V. (2011). Examining the Validity of Cross-Lingual Word Sense Disambiguation. *Proceedings of the 12th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2011)*, Polibits, 43, 29-35, Tokyo, Japan. (VABB)

3. Macken, L. & **Lefever, E.** (2008). Translational Equivalence in Statistical Machine Translation or Meaning as co-occurrence. In S. Vandepitte (ed.), *Looking for meaning: Methodological issues in translation studies (7): Linguistica Antverpiensia, New Series*, 193-208. University Press Antwerp, Antwerp, Belgium.

B2 Publications

1. Vanopstal, K., Macken, L., **Lefever, E.**, Van de Kauter, M., Buysschaert, J. , & Hoste, V. (2014). Terminologie: op het snijvlak van ambacht en technologie. In S. Evenepoel, P. Goethals and L. Jooken (eds.), *Beschouwingen uit een talenhuis*, 179-189. Academia Press, Ghent, Belgium.

B3 Publications

1. **Lefever, E.** & Hoste, V. (2011). *Computational Linguistics in the Netherlands Journal*, Ghent, Belgium.

P1 Publications

1. **Lefever, E.**, Van de Kauter, M., & Hoste, V. (2014). Evaluation of Automatic Hypernym Extraction from Technical Corpora in English and Dutch. In Nicoletta Calzolari, Khalid Choukri, Thierry Declerck, Hrafn Loftsson, Bente Maegaard, Joseph Mariani, Asuncion Moreno, Jan Odijk and Stelios Piperidis (eds.), *Proceedings of the Ninth International Conference on Language Resources and Evaluation (LREC'14)*, 490-497. European Language Resources Association (ELRA), Reykjavik, Iceland.
2. **Lefever, E.**, Hoste, V. & De Cock, M. (2012). Discovering Missing Wikipedia Inter-language Links by means of Cross-lingual Word Sense Disambiguation. *Proceedings of the eighth international conference on Language Resources and Evaluation (LREC 2012)*, 841-846, Istanbul, Turkey.
3. Mourisse, D.M., **Lefever, E.**, Verbiest, N.V., Saeys, Y.S., De Cock, M., & Cornelis, C. (2012). SBFC: An Efficient Feature Frequency-Based Approach to Tackle Cross-Lingual Word Sense Disambiguation. *Proceedings of the 15th International Conference on Text, Speech and Dialogue (TSD 2012)*, LNCS 7499, 248-255, Springer-Verlag Berlin Heidelberg, Brno, Czech Republic.
4. Hoste, V., **Lefever, E.**, Vanopstal, K. & Delaere, I. (2008). Learning-based Detection of Scientific Terms in Patient Information. In N. Calzolari, K. Choukri, B. Maegaard, J. Mariani, J. Odijk, S. Piperidis, and D. Tapias (eds.), *Proceedings of the Sixth Conference on International Language Resources and Evaluation (LREC'08)*. European Language Resources Association, 585-591, Marrakech, Morocco.

C1 Publications

1. **Lefever, E.** (2015). LT3: A Multi-modular Approach to Automatic Taxonomy Construction. *Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval 2015)*, 944-948. Association for Computational Linguistics (ACL), Denver, Colorado, USA.
2. Van Hee, C., **Lefever, E.**, & Hoste, V. (2015). LT3: Sentiment Analysis of Figurative Tweets: a piece of cake. #NotReally. *Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval 2015)*, 684-688. Association for Computational Linguistics (ACL), Denver, Colorado, USA.
3. De Clercq, O., Van de Kauter, M., **Lefever, E.**, & Hoste, V. (2015). Applying Hybrid Terminology Extraction to Aspect Based Sentiment Analysis. *Proceedings of the 9th*

- International Workshop on Semantic Evaluation (SemEval 2015), 719-724. Association for Computational Linguistics (ACL), Denver, Colorado, USA.
4. Van Hee, C., **Lefever, E.**, Verhoeven, B., Mennes, J., Desmet, B., De Pauw, G., Daelemans, W. & Hoste, V. (2015). Detection and Fine-Grained Classification of Cyberbullying Events. Proceedings of Recent Advances in Natural Language Processing (RANLP 2015), 672–680, Hissar, Bulgaria.
 5. Van Hee, C., **Lefever, E.**, Verhoeven, B., Mennes, J., Desmet, B., De Pauw, G., Daelemans, W. & Hoste, V. (2015). Automatic Detection and Prevention of Cyberbullying. The First International Conference on Human and Social Analytics (HUSO 2015), St. Julians, Malta. In press. . [**Best paper award**]
 6. Van Hee, C., Van de Kauter, M., De Clercq, O., **Lefever, E.**, & Hoste, V. (2014). LT3: Sentiment Classification in User-Generated Content Using a Rich Feature Set. Proceedings of the 8th International Workshop on Semantic Evaluation (SemEval 2014), 406-410. Association for Computational Linguistics (ACL), Dublin, Ireland.
 7. van Gompel, M., Hendrickx, I., van den Bosch, A., **Lefever, E.**, & Hoste, V. (2014). SemEval 2014 Task 5 - L2 Writing Assistant. Proceedings of the 8th International Workshop on Semantic Evaluation (SemEval 2014), 36-44. Association for Computational Linguistics (ACL), Dublin, Ireland.
 8. **Lefever, E.**, & Hoste, V. (2013). SemEval-2013 Task 10: Cross-Lingual Word Sense Disambiguation. Second Joint Conference on Lexical and Computational Semantics (*SEM), Volume 2: Proceedings of the Seventh International Workshop on Semantic Evaluation (SemEval 2013). ACL, Atlanta, Georgia, USA.
 9. Schropp, G.Y.R., **Lefever, E.**, & Hoste, V. (2013). A combined pattern-based and distributional approach for automatic hypernym detection in Dutch. Proceedings of the 9th International Conference on Recent Advances in Natural Language Processing (RANLP 2013), 593-600, Hissar, Bulgaria.
 10. De Clercq, O., Schulz, S., Desmet, B., **Lefever, E.**, & Hoste, V. (2013). Normalization of Dutch User-Generated Content. Proceedings of the 9th International Conference on Recent Advances in Natural Language Processing (RANLP 2013), 179-188, Hissar, Bulgaria.
 11. **Lefever, E.**, Hoste, V. & De Cock, M. (2013). Five languages are better than one: an attempt to bypass the language acquisition bottleneck for WSD. In Alexander Gelbukh (ed.), CILing 2013, Part I, LNCS 7816, 343-354. Springer-Verlag Berlin Heidelberg, Samos, Greece. [Third best paper award]
 12. **Lefever, E.**, Hoste, V. & De Cock, M. (2011). ParaSense or how to use Parallel Corpora for Word Sense Disambiguation. Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies, 317-322, Portland, Oregon, USA.
 13. **Lefever, E.** & Hoste, V. (2011). An Evaluation and Possible Improvement Path for Current SMT Behavior on Ambiguous Nouns. Proceedings of SSST-5, Fifth Workshop on Syntax, Semantics and Structure in Statistical Translation (ACL HLT 2011), 52-60, Portland, Oregon, USA.
 14. **Lefever, E.**, Hoste, V. & De Cock, M. (2011). Using Parallel Corpora for Word Sense Disambiguation. Proceedings of the 23rd Benelux Conference on Artificial Intelligence, 407-408, Gent, Belgium.
 15. **Lefever, E.** & Hoste, V. (2010). SemEval-2010 Task 3: Cross-lingual Word Sense Disambiguation. Proceedings of the ACL Workshop on Semantic Evaluations (SemEval- 2010), 15-20, Uppsala, Sweden.
 16. **Lefever, E.** & Hoste, V. (2010). Construction of a Benchmark Data Set for Cross-Lingual Word Sense Disambiguation. In N. Calzolari, K. Choukri, B. Maegaard, J. Mariani, J. Odijk, S. Piperidis, M. Rosner, & D. Tapias (eds.), Proceedings of the seventh International Conference on Language Resources and Evaluation (LREC'10). European Language Resources Association, 1584-1590, Valletta, Malta.
 17. **Lefever, E.**, Macken, L. & Hoste, V. (2009). Language-independent bilingual terminology extraction from a multilingual parallel corpus. Proceedings of the 12th Conference of the

European Chapter of the Association for Computational Linguistics. The Association for Computational Linguistics, 496-504, Athens, Greece.

18. **Lefever, E.** & Hoste, V. (2009). SemEval-2010 Task 3: Cross-lingual Word Sense Disambiguation. Proceedings of the Workshop on Semantic Evaluations: Recent Achievements and Future Directions (SEW-2009), 82-87, Boulder, Colorado.
19. **Lefever, E.**, Fayruzov, T., Hoste, V. & De Cock, M. (2009). Fuzzy Ants Clustering for Web People Search. Proceedings of WePS2 (2nd Web People Search Evaluation Workshop), workshop at WWW2009. Madrid, Spain.
20. Macken, L., **Lefever, E.** & Hoste, V. (2008). Linguistically-based sub-sentential alignment for terminology extraction from a bilingual automotive corpus. Proceedings of the 22nd International Conference on Computational Linguistics (Coling 2008), 529-536, Manchester, UK.
21. **Lefever, E.**, Fayruzov, T. & Hoste, V. (2007). AUG: A combined classification and clustering approach for web people disambiguation. Proceedings of the 4th International Workshop on Semantic Evaluations, 105-108, Prague, Czech Republic.
22. Hoste, V., Vanopstal, K. & **Lefever, E.** (2007). The Automatic Detection of Scientific Terms in Patient Information. Proceedings of the Workshop on Acquisition and Management of Multilingual Lexicons, 41-48, Borovetz, Bulgaria.

C3 Publications

1. Vandevoorde, L., De Baets, P., **Lefever, E.**, Plevoets, K. & De Sutter, G. (2015). Distributional and translational solutions to the visualization of semantic differences between translated and non-translated Dutch. Proceedings of the 6th Quantitative Investigations in Theoretical Linguistics conference (QITL), Tübingen, Germany.
2. Vandevoorde, L., Plevoets, K., **Lefever, E.** & De Sutter, G. (2015). A cognitive-translational approach to meaning: visualizing semantic structure through translational corpora. Translation in Transition, Abstracts.
3. Vandeghinste, V., Vanallemeersch, T., Van Eynde, F., Macken, L., **Lefever, E.**, Hoste, V., Moens, M.-F., Pelemans, J., Wambacq, P., Haesen, M., Coninx, K. & De Wachter, K. (2014). SCATE. Smart Computer-Aided Translation Environment. Proceedings of the 17th Annual Conference of the European Association for Machine Translation. Dubrovnik, Croatia. Posters.

2. Organization of workshops/conferences/shared tasks

1. Organization of four shared tasks in the framework of SemEval, an on-going series of evaluations of computational semantic analysis systems:
 - a. Co-organizer of SemEval-2016 "TEEval-2 – Taxonomy Extraction".
 - b. Co-organizer of SemEval-2014 "L2 Writing Assistant" task (Dublin, Ireland), August 2014.
 - c. Organizer of SemEval-2013 "Cross-lingual Word Sense Disambiguation" (Atlanta, USA), June 2013.
 - d. Organizer of SemEval-2010 "Cross-lingual Word Sense Disambiguation" task (Uppsala, Sweden), June 2010.
2. Organization of the TA-COS (Text Analytics for Cybersecurity and Online Safety) workshop, 2016.
3. Organization of the Atila 2014 Workshop (Ghent, Belgium), 20-21 November 2014.

4. Organization of the symposium “Exploiting parallel corpora for lexical disambiguation” (Ghent, Belgium), September 2012.
5. Organization of CLIN 21 - Computational Linguistics in the Netherlands conference (Ghent, Belgium), February 2011.

3. Reviewing

1. Monitor for the European Commission

Monitor (previously known as “reviewer”) for the EU’s Seventh Framework Programme for Research (FP7). I performed the final review of the “TaaS, Terminology as a Service” project (June-July 2014, Luxemburg).

2. Member of Program Committees

1. LREC-2016 (10th Language Resources and Evaluation Conference), May 2016, Portorož, Slovenia.
2. LAW IX 2016 (10th Linguistic Annotation Workshop), 2016.
3. ACL-IJCLNLP 2015 (53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing), July 2015, Beijing, China.
4. SemEval-2015 (International workshop on Semantic Evaluation), June 2015, Denver, Colorado, USA.
5. LAW IX 2015 (9th Linguistic Annotation Workshop), June 2015, Denver, Colorado, USA.
6. NLDB 2015 (20th International Conference on Applications of Natural Language to Information Systems), June 2015, Passau, Germany.
7. WNACP-2015 (1st Workshop on NLP Applications: completing the puzzle), June 2015, Passau, Germany.
8. CLIN 24 (Computational Linguistics in the Netherlands), November 2014, Leiden, Netherlands.
9. SemEval-2014 (International workshop on Semantic Evaluation), August 2014, Dublin, Ireland.
10. CLIN 23 (Computational Linguistics in the Netherlands), January 2013, Twente, Netherlands.
11. SSST-7 (7th Workshop on Syntax, Semantics and Structure in Statistical Translation), June 2013, Atlanta, USA.
12. SemEval-2013 (International workshop on Semantic Evaluation), June 2013, Atlanta, Georgia, USA.
13. ISKE-2011 (2011 IEEE International Conference on Intelligent Systems and Knowledge Engineering), December 2011, Shanghai, China.
14. ESSLLI-2011 (European Summer School in Logic, Language and Information), August 2011, Ljubljana, Slovenia.
15. ACL-HLT 2011 (Association for Computational Linguistics), June 2011, Portland, Oregon, USA.

16. SemEval-2010 (International workshop on Semantic Evaluation), July 2010, Uppsala, Sweden.
17. WePS 2 (Second Web People Search Evaluation Workshop), April 2009, Madrid, Spain.

3. Journal Reviews

1. International Journal of Metadata, Semantics and Ontologies (2015)
2. International Journal of Cyber-Security and Digital Forensics (2015)
3. SpringerPlus (2015)
4. Artificial Intelligence (2014)
5. Journal of Machine Learning Research (2014)
6. International Journal of Computer Science: Theory and Application (2014)
7. Language Resources and Evaluation (2011, 2013, 2014)
8. Natural Language Engineering (2013)
9. Computational Linguistics in the Netherlands Journal (2011, 2012, 2013, 2015)
10. Journal of Information Sciences (2012)

3. Reviewer for International Conferences:

1. AMIA-2015 (American Medical Informatics Association), November 2015, San Francisco, USA.
2. EACL-2014 (International Conference on Computational Linguistics), April 2014, Gothenburg, Sweden.
3. STAIRS-2014 (European Starting AI Researcher Symposium), August 2014, Prague, Czech Republic.
4. AMIA-2014 (American Medical Informatics Association), November 2014, Washington, D.C., USA.
5. SemEval-2014 (International workshop on Semantic Evaluation), August 2014, Dublin, Ireland.
6. Cicling-2013 (International Conference on Computational Linguistics), March 2013, Samos, Greece.
7. SSST-7 (7th Workshop on Syntax, Semantics and Structure in Statistical Translation), June 2013, Atlanta, GA, USA.
8. SemEval-2013 (International workshop on Semantic Evaluation), June 2013, Atlanta, GA, USA.
9. IJCNLP-2013 (International Joint Conference on Natural Language Processing), October 2013, Nagoya, Japan.
10. ISKE-2013 (Intelligent Systems and Knowledge Engineering), November 2013, Shenzhen, China.
11. Coling-2012 (International Conference on Computational Linguistics), July 2012, Prague, Czech Republic.

12. ACL-2011 (Association for Computational Linguistics), June 2011, Portland, Oregon, USA.
13. DIR-2011 (Dutch-Belgian Information Retrieval Workshop), February 2011, Amsterdam, Netherlands.
14. ESSLLI-2011 (European Summer School in Logic, Language and Information), Language Resources and Evaluation (journal), August 2011, Ljubljana, Slovenia.
15. CIKM-2011 (Conference on Information and Knowledge Management), October 2011, Glasgow, UK.
16. BNAIC-2011 (Benelux Conference on Artificial Intelligence), November 2011, Ghent, Belgium.
17. ADMA-2011 (International Conference on Advanced Data Mining and Applications), August 2011, Xi'an, China.
18. ISKE-2011 (Intelligent Systems and Knowledge Engineering), December 2011, Shanghai, China.
19. RSKT-2010 (Rough Sets and Knowledge Technology), October 2010, Beijing, China.
20. NAACL-2010 (North-American Chapter of the Association for Computational Linguistics), June 2010, Los Angeles, USA.
21. SemEval-2010 (International workshop on Semantic Evaluation), July 2010, Uppsala, Sweden.
22. ACM CIKM 2010 (Conference on Information and Knowledge Management), October 2010, Toronto, Canada.
23. RANLP-2009 (Recent Advances in Natural Language Processing), April 2009, Borovets, Bulgaria.
24. HIS-2009 (Conference on Hybrid Intelligent Systems), August 2009, Shenyang, LiaoNing, China.
25. NAACL-2009 (North-American Chapter of the Association for Computational Linguistics), May 2009, Boulder, CO, USA.
26. EACL-2009 (International Conference on Computational Linguistics), April 2009, Athens, Greece.
27. ACL-2009 (Association for Computational Linguistics), August 2009, Singapore.
28. SEW-2009 (Semantic Evaluations: Recent Achievements and Future Directions), June 2009, Boulder, CO, USA.
29. Web People Search workshop, April 2009, Madrid, Spain.
30. RSKT-2008 (Rough Sets and Knowledge Technology), May 2008, Chengdu, China.
31. LREC-2008 (International Conference on Language Resources and Evaluations), May 2008, Marrakech (Morocco).

4. Contribution to international conferences/shared tasks

1. Participation to shared tasks

1. SemEval-2015 (International workshop on Semantic Evaluation), Denver, Colorado, USA, Task 11: Sentiment Analysis of Figurative Language in Twitter, Task 12: Aspect Based Sentiment Analysis and Task 17: Taxonomy Extraction Evaluation, 2015.
2. SemEval-2014 (International workshop on Semantic Evaluation), Dublin, Ireland, Task 9: Sentiment Analysis in Twitter, 2014.
3. WePS 2 (2nd Web People Search Evaluation Workshop), Madrid, Spain, 2009.
4. SemEval-2007 (International workshop on Semantic Evaluation), Prague, Czech Republic, Task 13: WePS Evaluation: Establishing a benchmark for the Web People Search Task.

2. Session Chair:

1. CLIN-26 (Computational Linguistics in the Netherlands), Amsterdam, Netherlands
2. CLIN-25 (Computational Linguistics in the Netherlands), Antwerp, Belgium
3. Atila Workshop 2014, Ghent, Belgium.
4. SemEval-2014 (International workshop on Semantic Evaluation), Dublin, Ireland.
5. Atila Workshop 2013, Corsendonk, Antwerpen.
6. SemEval-2013 (International workshop on Semantic Evaluation), Atlanta, Georgia.
7. CLIN-2012 (Computational Linguistics in the Netherlands), Tilburg, Netherlands.
8. CLIN-2011 (Computational Linguistics in the Netherlands), Ghent, Belgium.

3. Oral presentations:

1. CLIN (Computational Linguistics in the Netherlands), Amsterdam, Netherlands: "Very quaffable and great fun: Applying NLP to wine reviews" (2015).
2. "Computational Processing of Wine Reviews" workshop, Nijmegen, Netherlands: "Applying NLP techniques to discover 'taste' and 'smell' and people's opinions in Wine Reviews" (2015). [Invited Talk]
3. HUSO 2015 (First International Conference on Human and Social Analytics), St. Julians, Malta: "Automatic Detection and Prevention of Cyberbullying" (2015). [Best presentation award]
4. TiNT 2015 (Terminologie in het Nederlandse Taalgebied), Brussels, Belgium: "Terminologie-extractie – presentatie resultaten & discussie" (2015).
5. SemEval-2014 (Workshop on Semantic Evaluations), Dublin, Ireland: "SemEval 2014 Task 5 - L2 Writing Assistant." (2014).
6. LREC (International Conference on Language Resources and Evaluations), Reykjavik, Iceland: "Evaluation of Automatic Hypernym Extraction from Technical Corpora in English and Dutch" (2014).
7. European Commission, LEIT ICT 19 Information Day on Technologies for Creative Industries, Social Media and Convergence, Brussels, Belgium: "Sentiment Analysis for Social Media" (2014).

8. Workshop on "Corpus-based Perspectives on Semantic Structure in Translation Studies and Theoretical Linguistics", Ghent, Belgium: "ParaSense or how to use parallel corpora for cross-lingual Word Sense Disambiguation" (2013). [Invited Talk]
9. Cicling (International Conference on Computational Linguistics), Samos, Greece: "Five languages are better than one: an attempt to bypass the language acquisition bottleneck for WSD" (2013). [third best presentation award]
10. SemEval-2013 (Workshop on Semantic Evaluations), Atlanta, Georgia, USA: "Task 10: Cross-Lingual Word Sense Disambiguation" (2013).
11. RANLP (International Conference on Recent Advances in Natural Language Processing), Hissar, Bulgaria: "A combined pattern-based and distributional approach for automatic hypernym detection in Dutch" (2013).
12. RANLP (International Conference on Recent Advances in Natural Language Processing), Hissar, Bulgaria: "Normalization of Dutch User-Generated Content" (2013).
13. Atila Workshop, Corsendonk, Antwerpen: "A combined pattern-based and distributional approach for automatic hypernym detection in Dutch" (2013).
14. Workshop on "Corpus-based Perspectives on Semantic Structure in Translation Studies and Theoretical Linguistics", Ghent, Belgium: "ParaSense or how to use parallel corpora for cross-lingual Word Sense Disambiguation" (2013).
15. CLIN 22 (Computational Linguistics in the Netherlands), Tilburg, Netherlands: "Discovering missing Wikipedia inter-language links by means of cross-lingual Word Sense Disambiguation" (2012).
16. LREC (International Conference on Language Resources and Evaluations), Istanbul, Turkey: "Discovering missing Wikipedia inter-language links by means of cross-lingual Word Sense Disambiguation" (2012).
17. ACL (Association for Computational Linguistics) 2011, Portland, Oregon, USA: "ParaSense or how to use Parallel Corpora for Word Sense Disambiguation" (2011).
18. BNAIC (Benelux Conference on Artificial Intelligence) 2011, Gent, België: "Using Parallel Corpora for Word Sense Disambiguation" (2011).
19. Atila Workshop, Antwerpen: "Discovering missing Wikipedia inter-language links by means of cross-lingual WSD" (2011).
20. CLIN (Computational Linguistics in the Netherlands), Utrecht: "Cross-lingual Word Sense Disambiguation" (2010).
21. SemEval 2010 (Workshop on Semantic Evaluations), Uppsala: "SemEval-2010 Task 3: Cross-lingual Word Sense Disambiguation" (2010).
22. LTCI 2010 (Language Technology and Computational Intelligence Workshop), Gent: "A Multilingual Approach to Word Sense Disambiguation" (2010).
23. Atila Workshop, Oostende: "Examining the validity of Cross-lingual Word Sense Disambiguation" (2010).
24. CLIN (Computational Linguistics in the Netherlands), Groningen: "Language-independent bilingual terminology extraction from a multilingual parallel corpus" (2009).
25. EACL (European association for computational linguistics), Athene: "Language-independent bilingual terminology extraction from a multilingual parallel corpus" (2009).

26. CLIF (Language and Speech Technology in Flanders) symposium, Antwerp, Belgium: "Cross-lingual Word Sense Disambiguation" (2009).
27. WePS 2009 (2nd Web People Search Evaluation Workshop), Madrid: "Fuzzy Ants Clustering for Web People Search" (2009).
28. Atila Workshop, Turnhout: "SemEval-2: Cross-lingual Word Sense Disambiguation" (2009).
29. CLIF (Language and Speech Technology in Flanders) symposium, Antwerpen: "Cross-lingual Word Sense Disambiguation" (2009).
30. AOG Workshop, Gent: "Linguistically-based sub-sentential alignment for terminology extraction from a bilingual automotive corpus" (2008).
31. Atila Workshop, Antwerpen: "Language independent bilingual terminology extraction from a parallel corpus" (2008).
32. CLIN (Computational Linguistics in the Netherlands), Nijmegen: "The Automatic Detection of Scientific Terms in Patient Information" (2007).

4. Poster presentations

1. SemEval-2015 (Workshop on Semantic Evaluations), Denver, Colorado, USA: "LT3: A Multi-modular Approach to Automatic Taxonomy Construction (2015).
2. SemEval-2015 (Workshop on Semantic Evaluations), Denver, Colorado, USA: "LT3: Sentiment Analysis of Figurative Tweets: a piece of cake. #NotReally (2015).
3. SemEval-2015 (Workshop on Semantic Evaluations), Denver, Colorado, USA: "Applying Hybrid Terminology Extraction to Aspect Based Sentiment Analysis. Proceedings of the 9th International Workshop on Semantic Evaluation (2015).
4. SemEval-2014 (Workshop on Semantic Evaluations), Dublin, Ireland: "LT3: Sentiment Classification in User-Generated Content Using a Rich Feature Set" (2014).
5. CICLING (Conference on Intelligent Text Processing and Computational Linguistics) 2011, Tokyo, Japan: "Examining the Validity of Cross-Lingual Word Sense Disambiguation" (2011).
6. CLIN 21 (Computational Linguistics in the Netherlands), Gent: "ParaSense or how to use Parallel Corpora for Cross-lingual Word Sense Disambiguation" (2011).
7. SSST-5 workshop, Portland, Oregon, USA: "An Evaluation and Possible Improvement Path for Current SMT Behavior on Ambiguous Nouns" (2011)
8. LREC (International Conference on Language Resources and Evaluations), "Construction of a Benchmark Data Set for Cross-Lingual Word Sense Disambiguation" (2010).
9. Doctoraatssymposium Faculteit Wetenschappen UGent: "Parasense: A parallel corpus for Dutch Word Sense Disambiguation" (2009).
10. SEW 2009 (Workshop on Semantic Evaluations: Recent Achievements and Future Directions), Boulder, Colorado: "SemEval-2010 Task 3: Cross-lingual Word Sense Disambiguation" (2009).
11. LREC (International Conference on Language Resources and Evaluations), Marrakesh: "Learning-based Detection of Scientific Terms in Patient Information" (2008).

12. Benelearn (Belgian-Dutch Conference on Machine Learning), Amsterdam: "A combined classification and clustering approach for Web People Disambiguation" (2007).
13. SemEval 2007 - ACL (Association for Computational Linguistics), Praag: "A combined classification and clustering approach for Web People Disambiguation" (2007).

5. Membership of scholarly committees

1. Member of the FWO funded Scientific Research Network "Digital Humanities Flanders"
2. Member of SIGLEX, a Special Interest Group on the Lexicon of the Association for Computational Linguistics.