

Curriculum Vitae

Vincent Kríž

Education

- 2012 – present
PhD study on computational linguistics
Institute of Formal and Applied Linguistics
Faculty of Mathematics and Physics
Charles University in Prague
Doctoral thesis:
[Detecting Semantic Relations in Texts and their Integration with External Data Resources](#)
- 2009 – 2012
Master's study on computational linguistics
Institute of Formal and Applied Linguistics
Faculty of Mathematics and Physics
Charles University in Prague
Diploma thesis :
[Classifier for Semantic Patterns of English Verbs](#)
- 2006 – 2009
Bachelor's study on Computer Science
Faculty of Mathematics and Physics
Charles University in Prague
Bachelor's thesis:
[Syntacticallybased Classification of Czech Sentences](#)

Publications

- 2014
Kríž Vincent, Hladká Barbora, Nečský Martin, Dědek Jan: Statistical Recognition of References in Czech Court Decisions. Accepted for publication in: MICAI 2014, Part I, LNAI 8856, Copyright © Springer International Publishing, Switzerland, pp. 51-61, 2014
- 2014
Kríž Vincent, Hladká Barbora, Nečský Martin, Knap Tomáš: Data Extraction Using NLP Techniques and Its Transformation to Linked Data. Accepted for publication in: MICAI 2014, Part I, LNAI 8856, Copyright © Springer International Publishing, Switzerland, pp. 113-124, 2014
- 2014
Holubová Irena, Knap Tomáš, Kríž Vincent, Nečský Martin, Hladká Barbora: INTLIB - an INTelligent LIBrary. In: Proceedings of the DATESO 2014 Annual International Workshop on DATABASES, TEXTS, SPECIFICATIONS AND OBJECTS, Copyright © Czech Technical University in Prague, Faculty of Information Technology, Praha, Czechia, ISBN 978-80-01-05482-6, ISSN 1613-0073, pp. 13-24, 2014
- 2013
Kríž Vincent: Detecting Semantic Relations in Texts and Their Integration with External Data Resources. In: WDS'13 Proceedings of Contributed Papers, Copyright © Matfyzpress, Praha, Czechia, ISBN 978-80-7378-250-4, pp. 18-23, 2013
- 2013
Barbora Hladká, Martin Holub and Vincent Kríž: Feature Engineering in the NLI Shared Task 2013: Charles University Submission Report. Proceedings of the Eighth Workshop on Innovative Use of NLP for Building Educational Applications, pages 232–241, Atlanta, Georgia, June 13 2013
- 2012
Martin Holub, Vincent Kríž, Silvie Cinková and Eckhard Bick: Tailored Feature Extraction for Lexical Disambiguation of English Verbs Based on Corpus Pattern Analysis. Proceedings of the 24th International Conference on Computational Linguistics, COLING 2012: Technical Papers, pages 1195–1210, COLING 2012, Mumbai, December 2012.
- 2012
Vincent Kríž: Classifier for semantic patterns of English verbs. Master Thesis, Charles University in Prague, Czech Republic, 2012.
- 2012
Silvie Cinková, Martin Holub and Vincent Kríž: Managing Uncertainty in Semantic Tagging.

- Proceedings of the 13th Conference of the European Chapter of the Association for Computational Linguistics, pages 840–850, Avignon, France, April 23 - 27 2012.
- 2012 Silvie Cinková, Vincent Kríž, Martin Holub: Optimizing semantic granularity for NLP – report on a lexicographic experiment. Proceedings of the 15th EURALEX International Congress 2012, Oslo, Norway, 2012.
- 2009 Vincent Kríž: Syntacticallybased classification of Czech sentences. Bachelor's thesis, Charles University in Prague, Czech Republic, 2009.

Talks

- 2015 REextractor: a Robust Information Extractor. Seminar KEG, VŠE, Prague.
- 2015 REextractor: a Robust Information Extractor. NLP Applications, MFF UK, Prague.
- 2014 Tailored Feature Extraction for Lexical Disambiguation of English Verbs Based on Corpus Pattern Analysis (extended version). Introduction to Machine Learning, MFF UK, Prague
- 2014 Data Extraction using NLP techniques and its Transformation to Linked Data. MICAI 2014, Tuxtla Gutiérrez, Mexico.
- 2014 Statistical Recognition of References in Czech Court Decisions. MICAI 2014, Tuxtla Gutiérrez, Mexico.
- 2014 Statistical Recognition of References in Czech Court Decisions. Police of the Czech Republic, Prague.
- 2014 Data Extraction with NLP techniques and its Transformation to Linked Data. Linguistic Mondays, MFF UK, Prague.
- 2014 Tailored Feature Extraction for Lexical Disambiguation of English Verbs Based on Corpus Pattern Analysis (extended version). NLP Applications, MFF UK, Prague.
- 2014 Statistical Recognition of References in Czech Court Decisions. Seminář strojového učení a modelování, MFF UK, Prague.
- 2014 Tailored Feature Extraction for Lexical Disambiguation of English Verbs Based on Corpus Pattern Analysis (extended version). Introduction to Machine Learning, MFF UK, Prague
- 2013 Detecting Entity Relations in Texts. Seminar KEG, VŠE, Prague.
- 2013 Detecting Semantic Relations in Texts and Their Integration with External Data Resources. Week of Doctoral Students 2013, MFF UK, Prague.
- 2013 JTagger - Detecting References in Court Decisions. Malostranská IT setkání, MFF UK, Prague
- 2013 Tailored Feature Extraction for Lexical Disambiguation of English Verbs Based on Corpus Pattern Analysis (extended version). Introduction to Machine Learning, MFF UK, Prague.
- 2012 Tailored Feature Extraction for Lexical Disambiguation of English Verbs Based on Corpus Pattern Analysis. COLING 2012, Bombay, India.

Research Activities

- 2013 – present [Native Language Identification](#)
The task of Native Language Identification is to identify the native language of a writer based solely on a sample of their writing. With our system we have attended a shared task in Native Language Identification 2013 (NAACL 2013).
- 2012 – 2014 [INTLIB \(TAČR TA02010182\)](#)
The aim is to provide a more efficient and user-friendly tool for querying textual documents than full-text. In the first phase we extract from the documents a knowledge base -- a set of objects and their relationship – using natural language processing tools.
- 2012 – present [Semantic Pattern Recognition](#)
This project draws on the Corpus Pattern Analysis coined by Patrick W. Hanks and on the Pattern Dictionary of English verbs. We find very appealing the idea of semantic analysis of words (verbs) in contexts and seek to explore its application in NLP tasks.

Work experience

2012 – present	Institute of Formal and Applied Linguistics Faculty of Mathematics and Physics , Charles University in Prague Research Assistant
2011 – 2014	F solutions, s.r.o. Prague, Czech Republic Developer of NLP applications
2011	Textkernel BV Amsterdam, The Netherlands Junior Language Engineer
2008 – present	Kamadu, s.r.o. Prague, Czech Republic Founder and Main Developer
2008	iCom Vision, s.r.o. Prague, Czech Republic Junior C/C++ Developer
2007	Accenture Prague, Czech Republic IT support

Computer skills

Operating systems:	Linux (Ubuntu)
Programming languages:	Pascal C, C++ Prolog Haskell Perl, PHP, Action Script, BASH JavaScript, AJAX , (X)HTML, CSS XML, SQL
IDE:	Komodo IDE Programming in UNIX (Makefiles, compilers, debugging)
Databases:	MySQL Oracle
Office applications:	LibreOffice
Graphical applications:	GIMP CorelDRAW! Adobe Flash

Languages skills

Languages:	Slovak (native speaker) English (intermediate) Czech (intermediate) German (beginner)
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