

Eric Y. Kow

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INTERESTS

Natural language generation

Revision control systems (Darcs)

EDUCATION

PhD, Computer Science (2007-11-14)
Université Henri Poincaré (Nancy, France)

Master of Computer Science (DEA Informatique, 2004)
Université Henri Poincaré (Nancy, France)

BSE Computer Science and Engineering (2001, Cum Laude)
University of Pennsylvania (4th year: University of Edinburgh)

PROJECTS

Well-Typed (March 2011 - present, 1 day a week)

Community building and publicity for the Parallel GHC project, an initiative funded by Microsoft Research to further the use of Parallel Haskell in the real world.

Computational Linguistics Ltd (May 2011 - present, 2 days a week)

Extensions of and optimisations of the surface realiser software I developed during my PhD
Integration of this software into an interactive teaching application (SRI)

University of Brighton (Research Fellow, 2007-present)

Research in applying probabilistic methods in deep natural language generation (Prodigy project)
Organisation of the 2008 Referring Expression Generation Challenge and the 2009-2010 Generation Challenges.

Université Henri Poincaré (PhD student, 2004-2007)

Surface realisation: ambiguity and determinism.

The surface realisation task consists in producing the natural language sentence(s) associated with an input grammar and meaning. This thesis presents three extensions to a surface realiser: a symbolic technique for filtering the lexical selection to reduce the effects of lexical ambiguity, a filter which enables the user to control the kind of output produced by the realiser and, an automated harness for using the realiser debug large grammars.

INRIA Lorraine (Engineer, 2001-2003)

Tools for facilitating software reuse through open standards such as SOAP

Toolchain and support for the Dédé corpus annotation project.

RECENT PUBLICATIONS

Discrete vs. Continuous Rating Scales for Language Evaluation in NLP. Anja Belz and Eric Kow. ACL, 2011

Unsupervised Alignment of Comparable Data and Text Resources. Anja Belz and Eric Kow. Workshop on Building and Using Comparable Corpora (4th BUCC Workshop). 2011

The GREC Challenges 2010: Overview and Evaluation Results. Anja Belz and Eric Kow. INLG, 2010

Comparing Rating Scales and Preference Judgements in Language Evaluation. Anja Belz and Eric Kow. INLG, 2010.

Extracting Parallel Fragments from Comparable Corpora for Data-to-text Generation. Anja Belz and Eric Kow. INLG 2010.

Generating Referring Expressions in Context: The GREC Shared Task Evaluation Challenges. Anja Belz, Eric Kow, Jette Viethen and Albert Gatt. In Krahmer, E., Theune, M. (eds.) *Empirical Methods in Natural Language Generation*, Vol. 5980 of Lecture Notes in Computer Science, Springer.

Assessing the Trade-Off between System Building Cost and Output Quality in Data-to-Text Generation. Anja Belz and Eric Kow. In Krahmer, E., Theune, M. (eds.) *Empirical Methods in Natural Language Generation*, Vol. 5980 of Lecture Notes in Computer Science, Springer. (Extended version of Belz and Kow, 2009.)

System Building Cost vs. Output Quality in Data-To-Text Generation. Anja Belz, Eric Kow. ENLG, Athens, Greece, 2009. *Best paper award*.

The GREC Challenge 2008: Overview and Evaluation Results. Anja Belz, Eric Kow, Jette Viethen and Albert Gatt. INLG, Columbus, Ohio, 2008.

The TUNA Challenge 2008: Overview and Evaluation Results. Albert Gatt, Anja Belz, Eric Kow. INLG, Columbus, Ohio, 2008.

A Symbolic Approach to Near-Deterministic Surface Realisation using Tree Adjoining Grammar. ACL. Prague, Czech Republic, 2007.

Spotting Overgeneration Suspects. Claire Gardent and Eric Kow. European Workshop on Natural Language Generation (ENLG), Dagstuhl, Germany, 2007.

GenI: Natural language generation in Haskell. Eric Kow. Haskell'06, Portland, USA, 2006.

SemTAG, the LORIA toolbox for TAG-based Parsing and Generation. Eric Kow, Yannick Parmentier, Claire Gardent. Eighth International Workshop on Tree Adjoining Grammar and Related Formalisms (TAG+8). Sydney, Australia, 2006.

Three reasons to adopt TAG-based surface realisation. Claire Gardent and Eric Kow. TAG+8. Sydney, Australia, 2006.

Generating and selecting grammatical paraphrases. Claire Gardent and Eric Kow. ENLG, Aberdeen, UK, 2005

Adapting polarised disambiguation to surface realisation. Eric Kow. 17th European Summer School in Logic, Language and Information (ESSLLI) Student session, Edinburgh, UK, 2005.

Which bridges for bridging definite descriptions? Claire Gardent, Helene Manuelian and Eric Kow. 4th International Workshop on Linguistically Interpreted Corpora, Budapest, Hungary, 2003

Towards Reusable NLP Components. Amalia Todirascu, Laurent Romary and Eric Kow. LREC, Las Palmas, Spain, 2002.

LANGUAGES

English (native speaker)

French (fluent)

Haskell (active use)

Perl, Java (working familiarity)

TEACHING

1st year programming with Caml (14h course, 28h lab)

Short seminar on XML to research engineers in a French research laboratory

REFERENCES

Available upon request