Second Workshop on Effective Tools and Methodologies for Teaching Natural Language Processing and Computational Linguistics

Proceedings

25 June 2005
University of Michigan
Ann Arbor, Michigan, USA
Introduction

This is the second workshop on effective tools and methodologies for teaching NLP and Computational Linguistics. Recurring themes are the interdisciplinarity of the subject and the unexpected mismatches between student background and what the instructor initially assumed. Some papers talk about particular tools and assignments: are spelling checkers really as cool as we think? how much can students be persuaded to like error analysis? is it fair to ask students to use research software when they could be learning about more generally applicable tools? Others describe teaching approaches conditioned by particular institutional and educational needs: what is it like teaching in a situation where students typically can’t afford to buy even one textbook? can multiple universities co-ordinate a continent-wide curriculum? There is a consistent and welcome effort to discuss not only successes but also decisions that seem, at least in retrospect, to have been mistakes. We hope that all aspects of the sharing of experience begun in the papers will continue during the workshop itself.

We are grateful to all the authors who submitted papers, and the following people, who served on the program committee.

Steven Bird, University of Melbourne, Australia
Chris Brew, Ohio State University, USA
Ted Briscoe, University of Cambridge, UK
Walter Daelemans, University of Antwerp, Belgium
Robert Dale, Macquarie University, Australia
Jason Eisner, Johns Hopkins University, USA
Tomaž Erjavec, Jožef Stefan Institute, Slovenia
Kathy McKeown, Columbia University, USA
Elizabeth Liddy, Syracuse University, USA
Chris Manning, Stanford University, USA
Jim Martin, University of Colorado, USA
Chris Mellish, University of Aberdeen, UK
Dragomir Radev, University of Michigan, USA
Ellen Riloff, University of Utah, USA
Anoop Sarkar, Simon Fraser University, Canada
Harold Somers, University of Manchester, UK
Richard Sproat, University of Illinois, USA
Matthew Stone, Rutgers University, USA
Josef van Genabith, Dublin City University, Ireland
Richard Wicentowski, Swarthmore College, USA

We are also grateful to our home institutions for encouragement and support in working on our own teaching.

Chris Brew and Dragomir Radev
Table of Contents

*Teaching Applied Natural Language Processing: Triumphs and Tribulations*
  Marti Hearst ................................................................. 1

*Teaching Dialogue to Interdisciplinary Teams through Toolkits*
  Justine Cassell and Matthew Stone ........................................ 9

"Language and Computers": Creating an Introduction for a General Undergraduate Audience
  Chris Brew, Markus Dickinson and W. Detmar Meurers ..................... 15

*A Core-Tools Statistical NLP Course*
  Dan Klein .................................................................................. 23

*Web-based Interfaces for Natural Language Processing Tools*
  Marc Light, Robert Arens and Xin Lu .......................................... 28

*Making Hidden Markov Models More Transparent*
  Nashira Lincoln and Marc Light .................................................. 32

*Concrete Assignments for Teaching NLP in an M.S. Program*
  Reva Freedman ............................................................................. 37

*Language Technology from a European Perspective*
  Hans Uszkoreit, Valia Kordoni, Vladislav Kubon, Michael Rosner
  and Sabine Kirchmeier-Andersen ................................................. 43

*Natural Language Processing at the School of Information Studies for Africa*
  Björn Gambäck, Gunnar Eriksson and Athanassia Fourla .................... 49

*Teaching Language Technology at the North-West University*
  Suléne Pilon, Gerhard B Van Huyssteen and Bertus Van Rooy .............. 57

*Hands-On NLP for an Interdisciplinary Audience*
  Elizabeth Liddy and Nancy McCracken ........................................ 62
Conference Program

Saturday, June 25, 2005

09:00–09:20  Opening session

Session 1: NLP/CL in the curriculum

09:20-09:40  *Teaching Applied Natural Language Processing: Triumphs and Tribulations*
Marti Hearst

09:40-10:00  *Teaching Dialogue to Interdisciplinary Teams through Toolkits*
Justine Cassell and Matthew Stone

10:00-10:20  "Language and Computers": Creating an Introduction for a General Undergraduate Audience
Chris Brew, Markus Dickinson and W. Detmar Meurers

10:30–11:00  Break

Session 2: Assignments and tools

11:00–11:20  *A Core-Tools Statistical NLP Course*
Dan Klein

11:20–11:40  *Web-based Interfaces for Natural Language Processing Tools*
Marc Light, Robert Arens and Xin Lu

11:40–12:00  *Making Hidden Markov Models More Transparent*
Nashira Lincoln and Marc Light

12:00–12:20  *Concrete Assignments for Teaching NLP in an M.S. Program*
Reva Freedman

12:30–14:00  Lunch
Panel: The NLP/CL curriculum

14:00–16:00  Panel on the NLP/CL curriculum

16:00–16:30  Break

Session 3: Teaching NLP/CL to diverse audiences

16:30–16:50  *Language Technology from a European Perspective*
  Hans Uszkoreit, Valia Kordoni, Vladislav Kubon, Michael Rosner and Sabine Kirchmeier-Andersen

16:50–17:10  *Natural Language Processing at the School of Information Studies for Africa*
  Björn Gambäck, Gunnar Eriksson and Athanassia Fourla

17:10–17:30  *Teaching Language Technology at the North-West University*
  Suléne Pilon, Gerhard B Van Huyssteen and Bertus Van Rooy

17:30–17:50  *Hands-On NLP for an Interdisciplinary Audience*
  Elizabeth Liddy and Nancy McCracken