

ACL 2014

**The Fifth Workshop on Cognitive Modeling and
Computational Linguistics (CMCL)**

Proceedings of the Workshop

June 26, 2014
Baltimore, Maryland, USA

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Introduction

The papers in these proceedings were presented at the 5th annual workshop on Cognitive Modeling and Computational Linguistics (CMCL), held in Baltimore, Maryland on June 26th, 2014. CMCL-2014 followed in the tradition of earlier CMCL meetings, providing a venue for research in mathematical and computational psycholinguistics. We solicited papers on a broad spectrum of topics which spanned the formal modeling of language representation, development, and processing, and were very pleased to receive 17 submissions this year. The program below includes 8 of these papers which were selected for final presentation at the workshop. We would like to thank all submitting authors for the quality and variety of the papers we received, and for helping to foster the growth of the field of computational psycholinguistics. We would also like to thank our program committee for providing expertise in the evaluation of submitted papers. Finally, our program this year includes invited talks by Dr. Naomi Feldman of the University of Maryland and Dr. Edward Gibson of the Massachusetts Institute of Technology. We extend our appreciation to these researchers for sharing their work with us.

Tim O'Donnell and Vera Demberg

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Jelle Zuidema, University of Amsterdam (The Netherlands)

Invited Speakers:

Edward Gibson, MIT (USA)
Naomi Feldman, University of Maryland (USA)

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Workshop Program

Thursday, June 26, 2014

- 8:55–9:00 Opening
- 9:00–10:00 Invited talk by Naomi Feldman
- 10:00–10:30 *Computationally Rational Saccadic Control: An Explanation of Spillover Effects Based on Sampling from Noisy Perception and Memory*
Michael Shvartsman, Richard Lewis and Satinder Singh
- 10:30–11:00 Coffee break
- 11:00–11:30 *Investigating the role of entropy in sentence processing*
Tal Linzen and Florian Jaeger
- 11:30–12:00 *Sentence Processing in a Vectorial Model of Working Memory*
William Schuler
- 12:00–12:30 *Evaluating Evaluation Metrics for Minimalist Parsing*
Thomas Graf and Bradley Marcinek
- 12:30–14:00 Lunch break
- 14:00–14:30 *Learning Verb Classes in an Incremental Model*
Libby Barak, Afsaneh Fazly and Suzanne Stevenson
- 14:30–15:00 *A Usage-Based Model of Early Grammatical Development*
Barend Beekhuizen, Rens Bod, Afsaneh Fazly, Suzanne Stevenson and Arie Verhagen
- 15:00–15:30 *A Model to Qualify the Linguistic Adaptation Phenomenon in Online Conversation Threads: Analyzing Priming Effect in Online Health Community*
Yafei Wang, David Reitter and John Yen
- 15:30–16:00 Coffee break
- 16:00–16:30 *Quantifying the role of discourse topicality in speakers' choices of referring expressions*
Naho Orita, Naomi Feldman, Jordan Boyd-Graber and Eliana Vornov

Thursday, June 26, 2014 (continued)

16:30–17:30 Invited talk by Ted Gibson

17:30–17:45 Closing Remarks