CMCL 2017

Cognitive Modeling and Computational Linguistics (CMCL 2017)

Proceedings of the 7th Workshop

EACL 2017 Workshop
April 3, 2017
Valencia, Spain

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The Ohio State University Department of Linguistics

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Introduction

The seventh workshop in Cognitive Modelling and Computational Linguistics (CMCL 2017) was held in Valencia, Spain, alongside the annual meeting of the European chapter of the Association for Computational Linguistics (EACL 2017). This year's proceedings reflect the introduction of new methods in bridging computational linguistics and psycholinguistics, such as the neural models and deep learning techniques that have been sweeping other areas of computational linguistics. This year also saw the introduction of a new structure to CMCL, including a poster session, long and short paper tracks, and a non-archival abstract track. We invited two speakers this year, Prof. Anders Søgaard of the University of Copenhagen and Prof. Raquel Fernández of the University of Amsterdam, handed out a Best Student Paper Award, and gave travel grants to four student authors. We obtained sponsorship for awards, grants, and invited speaker costs via the Ohio State University Center for Cognitive and Brain Science, the Ohio State University Department of Linguistics, and the Massachusetts Institute of Technology Department of Brain and Cognitive Sciences.

This year, we received twenty paper submissions in total, of which two were eventually withdrawn. We accepted four papers as oral presentations, two as poster presentations with archival papers, three non-archival poster presentations, and one cross-submitted poster presentation. We would like to thank the authors, reviewers, and attendees for making this workshop a successful endeavour.

Ted Gibson
Tal Linzen
Asad Sayeed
Marten van Schijndel
William Schuler

Organizers

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Colin Wilson, Johns Hopkins University
Alessandra Zarcone, Saarland University
Jelle Zuidema, University of Amsterdam

Invited Speakers:

Raquel Fernández, University of Amsterdam (Netherlands)
Anders Søgaard, University of Copenhagen (Denmark)

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Conference Program

Monday, April 3, 2017

8:30–9:20 Registration

9:20–11:00 Session 1

9:20–9:30 ***Introductory remarks***

9:30–10:30 *Invited talk 1: Everytime I hire a penguin*
Anders Søgaard

10:30–11:00 *Entropy Reduction correlates with temporal lobe activity*
Matthew Nelson, Stanislas Dehaene, Christophe Pallier and John Hale

11:00–11:30 Coffee break

11:30–13:00 Session 2

11:30–12:00 *Learning an Input Filter for Argument Structure Acquisition*
Laurel Perkins, Naomi Feldman and Jeffrey Lidz

12:00–12:30 *Grounding sound change in ideal observer models of perception*
Zachary Burchill and T. Florian Jaeger

12:30–13:00 *"Oh, I've Heard That Before": Modelling Own-Dialect Bias After Perceptual Learning by Weighting Training Data*
Rachael Tatman

Monday, April 3, 2017 (continued)

13:00–14:30 Lunch

14:30–16:00 Poster session

Be Precise or Fuzzy: Learning the Meaning of Cardinals and Quantifiers from Vision
Sandro Pezzelle, Marco Marelli, and Raffaella Bernardi

"He's pregnant": simulating the confusing case of gender pronoun errors in L2 English
Chara Tsoukala, Stefan L. Frank, and Mirjam Broersma

Incremental generative model of sentence linearization and word order variation
Kristina Gulordava and Frank Keller

Inherent Biases of Recurrent Neural Networks for Phonological Assimilation and Dissimilation
Amanda Doucette

In search of the human-like predictability model
Anastasiya Lopukhina, Konstantin Lopukhin, and Anna Laurinavichyute

Predicting Japanese scrambling in the wild
Naho Orita

16:00–16:30 Coffee break

Monday, April 3, 2017 (continued)

16:30–18:00 Session 3

16:30–17:30 *Invited talk 2: Acquiring Language through Interaction*
Raquel Fernández

17:30–18:00 ***Concluding remarks***