EACL 2014

14th Conference of the European Chapter of the Association for Computational Linguistics

Proceedings of the 2nd Workshop on Continuous Vector Space Models and their Compositionality (CVSC)

April 26-30, 2014
Gothenburg, Sweden

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ISBN 978-1-937284-94-7

Introduction

Welcome to the 2nd Workshop on Continuous Vector Space Models and their Compositionality.

The first workshop on Continuous Vector Space Models and their Compositionality attempted to bridge the communities working on various kinds of semantics models relying on continuous representations of textual data.

This year, we continued in this direction and also expended our call for papers to work that asks theoretical and conceptual questions too, such as: Should phrase representations and word representations be of the same sort? Could different linguistic levels require different modelling approaches? Should word representations be task-specific, or should they be general? And many others.

This year's list of topics also included neural networks, distributional semantic models, language modeling for automatic speech recognition, statistical machine translation and information retrieval, the role of syntax in compositional models, the integration of distributional representations with other models, and more.

In brief, we aimed to continue the ongoing effort to address some of these points, either by theoretical reasoning, or through example via demonstrating interesting properties of new or existing distributional models of semantics.

We received 7 submissions, of which we accepted 5 for the final proceedings after a rigorous reviewing process. The workshop program also features the presentation of 3 invited speakers: Ivan Titov (University of Amsterdam), Phil Blunsom (University of Oxford) and Geoffrey Zweig (Microsoft Research).

We hope to gather formal semanticists, computational linguists, machine learning researchers and computational neuroscientists to tackle the fascinating problems behind continuous vector space models.

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Workshop Program

Sunday, April 27, 2014

9:30–9:40 Opening Remarks

9:40–10:30 Invited Talk by Ivan Titov

10:30–11:00 Coffee Break

11:00–11:20 *Post-hoc Manipulations of Vector Space Models with Application to Semantic Role Labeling*
Jenna Kanerva and Filip Ginter

11:20–11:40 *Distributional Composition using Higher-Order Dependency Vectors*
Julie Weeds, David Weir and Jeremy Reffin

11:40–12:00 *A Systematic Study of Semantic Vector Space Model Parameters*
Douwe Kiela and Stephen Clark

12:00–14:00 Lunch Break

14:00–14:50 Invited Talk by Geoffrey Zweig

14:50–15:10 *Extractive Summarization using Continuous Vector Space Models*
Mikael Kågebäck, Olof Mogren, Nina Tahmasebi and Devdatt Dubhashi

15:10–15:30 *Investigating the Contribution of Distributional Semantic Information for Dialogue Act Classification*
Dmitrijs Milajevs and Matthew Purver

15:30–16:00 Coffee Break

16:00–16:50 Invited Talk by Phil Blunsom

16:50–17:50 Panel Discussion with Chris Manning, Phil Blunsom, Ivan Titov and Geoffrey Zweig