

The MIT Press

Journals

[Sign In / Register](#)

[Books](#)

[Journals](#)

[Digital](#)

[Resources](#)

[About](#)



[Contact](#)



Home | Computational Linguistics | List Article navigation of Issues | Volume 41 , No. 1 | Concrete Models and Empirical Evaluations for the Categorical Compositional Distributional Model of Meaning



Concrete Models and Empirical Evaluations for the Categorical Compositional Distributional Model of Meaning

Quarterly (March, June, September, December)

160pp. per issue

6 3/4 x 10

Founded: 1974

2018 Impact Factor: 1.319

2018 Google Scholar h5-index: 32

ISSN: 0891-2017

E-ISSN: 1530-9312

Journal Resources

[Editorial Info](#)

[Abstracting and Indexing](#)

[Release Schedule](#)

[Advertising Info](#)

Author Resources

[Submission Guidelines](#)

Edward Grefenstette and Mehrnoosh Sadrzadeh

Posted Online April 14, 2015

https://doi.org/10.1162/COLI_a_00209

© 2015 Association for Computational Linguistics

Computational Linguistics
Volume 41 | Issue 1 | March 2015
p.71-118

[Download Options](#) >


[Abstract](#) [Full Text](#) [Authors](#)

Modeling compositional meaning for sentences using empirical distributional methods has been

Publication
Agreement
Author Reprints

Reader Resources

Rights and Permissions
Most Read
Most Cited

More About Computational Linguistics 

Metrics 



9 Total

citations

4 Recent

citations

4.42 Field Citation

Ratio

n/a Relative

Citation Ratio

Open Access 




Computational Linguistics Computational Linguistics is Open Access. All content is freely available in electronic format (Full text HTML, PDF, and PDF Plus) to


a challenge for computational linguists. The categorical model of Clark, Coecke, and Sadrzadeh (2008) and Coecke, Sadrzadeh, and Clark (2010) provides a solution by unifying a categorial grammar and a distributional model of meaning. It takes into account syntactic relations during semantic vector composition operations. But the setting is abstract: It has not been evaluated on empirical data and applied to any language tasks. We generate concrete models for this setting by developing algorithms to construct tensors and linear maps and instantiate the abstract parameters using empirical data. We then evaluate our concrete models against several experiments, both existing and new, based on measuring how well models align with human judgments in a paraphrase detection task. Our results show the implementation of this general abstract framework to perform on par with or outperform other leading models in these experiments.¹


Forthcoming

Most Read

[See More](#)

 **Lexicon-Based Methods for Sentiment Analysis** (13965 times)
Maite Taboada et al.
Computational Linguistics
Volume: 37, Issue: 2, pp. 267-307

 **Computational Linguistics and Deep Learning** (10500 times)
Christopher D. Manning
Computational Linguistics
Volume: 41, Issue: 4, pp. 701-707


 **Near-Synonymy and Lexical Choice** (3653 times)
Philip Edmonds et al.
Computational Linguistics
Volume: 28, Issue: 2, pp. 105-144


(Note that the Most Read numbers are based on the number of full text downloads over the last 12 months.)


Most Cited

[See More](#)

readers across the globe. All articles are published under a [CC BY-NC-ND 4.0 license](#). For more information on allowed uses, please view the [CC license](#). [Support OA at MITP](#)



 **Lexicon-Based Methods for Sentiment Analysis** (436 times)
Maite Taboada et al.
Computational Linguistics
Volume: 37, Issue: 2, pp. 267-307

 **A Systematic Comparison of Various Statistical Alignment Models** (174 times)
Franz Josef Och et al.
Computational Linguistics
Volume: 29, Issue: 1, pp. 19-51

 **Opinion Word Expansion and Target Extraction through Double Propagation** (147 times)
Guang Qiu et al.
Computational Linguistics
Volume: 37, Issue: 1, pp. 9-27

(Note that the Most Cited numbers are based on Crossref's [Cited-by service](#) and reflect citation information for the past 24 months.)

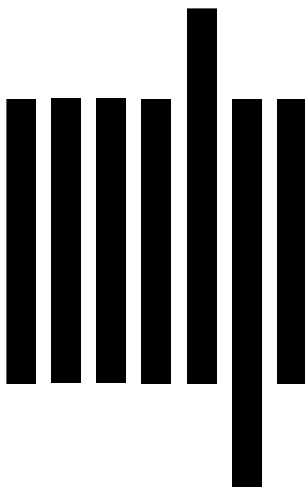
 **Download Options** >

Favorite  Sign up for Alerts 

Download Citation  RSS TOC 

RSS Citation  Submit your article

[Support OA at MITP](#) 



[Journals](#)

[Terms & Conditions](#)

[Privacy Statement](#)

[Contact Us](#)

[Books](#)

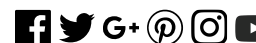
[US](#)

[UK](#)

[Connect](#)

One Rogers Street
Cambridge MA
02142-1209

Suite 2, 1 Duchess
Street London,
W1W 6AN, UK



© 2018 The MIT Press
Technology Partner:
[Atypon Systems, Inc.](#)
[CrossRef Member](#)
[COUNTER Member](#)
The MIT Press colophon is registered in the

U.S. Patent and Trademark Office

