

Word embeddings as metric recovery in semantic spaces

TB Hashimoto, D Alvarez-Melis... - Transactions of the ..., 2016 - MIT Press

... and demonstrates that **word embeddings** serve as a general way to connect metric random walks to **embeddings** ... Splitting the **word** vector \vec{x}_i and context vector \vec{c}_i is helpful in practice but not ... $\vec{a}_i, \vec{b}_i = 0$ is a global minimum whenever $\dim(\vec{x}) = d$. In other **words**, GloVe can ...

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Poincaré embeddings for learning hierarchical representations

M Nickel, D Kiela - Advances in neural information processing ..., 2017 - papers.nips.cc

... [35] proposed Order **Embeddings** to model visual-semantic hierarchies over **words**, sentences, and ... about hypernymy relations in form of logical rules can improve the quality of **word embeddings** ... In the following, we are interested in finding **embeddings** of symbolic data such ...

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Named entity recognition with stack residual LSTM and trainable bias decoding

Q Tran, A MacKinlay, AJ Yepes - arXiv preprint arXiv:1706.07598, 2017 - arxiv.org

... the use of **bias** to the most numerous class in the CoNLL tag set, class O (**words** that do ... For all of our models, the **word-embedding** size is set to 100 for English and 64 for Spanish. The hidden vector size is 100 for both English and Spanish sets without the LM **embeddings** ...

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The role of context types and dimensionality in learning word embeddings

O Melamud, D McClosky, S Patwardhan... - arXiv preprint arXiv ..., 2016 - arxiv.org

... The main idea is that two distinct sets of **word embeddings**, learned with different types of in ... from the left and from the right context of the target **words**, showing improvements on ... Inspired by this prior work, we consider pairs of **word embedding** sets, learned with different types of ...

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Learning word embeddings efficiently with noise-contrastive estimation

A Mnih, K Kavukcuoglu - Advances in neural information processing ..., 2013 - papers.nips.cc

... based models, such as those in the above paper, which only learn conditional **embeddings** for **words**, in our models each **word** has both ... Tree-based models replace target **embeddings** with parameters vectors associated with the tree nodes, as opposed to individual **words** ...

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The geometry of culture: Analyzing meaning through word embeddings

AC Kozlowski, M Taddy, JA Evans - arXiv preprint arXiv:1803.09288, 2018 - arxiv.org

... the distances represented correspond to those in a **word embedding** learned from a 100 billion **words** of 21st ... masculine" than "feminine." We argue that **word embeddings** include **bias** ... rarely in the interest of cultural analyst to "de-bias" a **word embedding** model as Bolukbasi et al ...

☆  Cited by 13 Related articles All 2 versions 

Collaborative multi-Level embedding learning from reviews for rating prediction.

W Zhang, Q Yuan, J Han, J Wang - IJCAI, 2016 - ijcai.org

... Besides, as the **embeddings** of **word**, user, and item lie in the same semantic space, the learned user and item **embedding** can be easily interpreted by the top nearest **words** to them (eg calculation through inner product) ...

☆  Cited by 22 Related articles All 4 versions 

Fine-grained opinion mining with recurrent neural networks and word embeddings

P Liu, S Joty, H Meng - Proceedings of the 2015 Conference on ..., 2015 - aclweb.org

... Although NNs learn **word** features (ie, **embeddings**) automatically, we may still be interested in incorporating other linguistic features like part-of-speech (POS) tags and chunk ... **Word embeddings** are distributed representations of **words**, represented as real ...

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Cane: Context-aware network embedding for relation modeling

C Tu, H Liu, Z Liu, M Sun - Proceedings of the 55th Annual Meeting of ..., 2017 - aclweb.org

... where $S_{i:i+l-1}$ denotes the concatenation of **word embeddings** within the i -th window and b is the **bias** vector ... In other **words**, each vertex should have its own points of focus about a specific vertex, which leads to its context-aware text **embeddings** ...

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Gated word-character recurrent language model

Y Miyamoto, K Cho - arXiv preprint arXiv:1606.01700, 2016 - arxiv.org

... method, **word embed- dings** are first trained using skip-n-gram (Ling et al., 2015b), and then the **word embeddings** are fine ... On the BBC and IMDB datasets, our model assigns a significantly high gating value on the un- known **word** token UNK compared to the other **words** ...

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