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cases		Bin Wang CC. Jay Kuo SBERT-WK: A Sentence Embedding Method by Dissecting BERT-Based Word Models	authors	CC. Jay Kuo Bin Wang		
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	1	language processing	urls	• https://arxiv.org/pdf/2002.06652v2.pdf	DUPLICATES	$\ _{252}$
	volume	28	uris	https://github.com/BinWang28/BERT_Sentence_Embedding		
	doi	10.1109/taslp.2020.3008390 • https://openalex.org/W3042631625	id	id-9106361643814454066		
	urls	 https://openalex.org/ w 3042031023 https://doi.org/10.1109/taslp.2020.3008390 http://arxiv.org/pdf/2002.06652 		Sentence embedding is an important research topic in natural language processing (NLP) since it can transfer knowledge to downstream tasks. Meanwhile, a contextualized word representation, called BERT, achieves the state-of-the-art performance in quite a few NLP tasks. Yet, it is an open problem to generate a high quality sentence representation from BERT-based word models. It was shown in previous study that different layers of BERT capture different linguistic properties. This allows us to fusion information across layers to find better sentence representation. In this work, we study the layer-wise pattern of the word representation of		
	id	id-642621512081171246		deep contextualized models. Then, we propose a new sentence embedding method by dissecting BERT-based word models through geometric analysis of the space		
	abstract			spanned by the word representation. It is called the SBERT-WK method. No further training is required in SBERT-WK. We evaluate SBERT-WK on semantic		
	versions			textual similarity and downstream supervised tasks. Furthermore, ten sentence-level probing tasks are presented for detailed linguistic analysis. Experiments show that SBERT-WK achieves the state-of-the-art performance. Our codes are publicly available.		
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