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cases			authors	Iryna Gurevych Nils Reimers		
	authors	Nils Reimers	title	Sentence-BERT: Sentence Embeddings using Siamese BERT-Networks		
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	<u> </u>	arxiv (comen oniversity)		https://github.com/UKPLab/sentence-transformers		320
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	urls	https://openalex.org/W2971193649	id	id8510547945187807396		
	id	id-7904604577476150538	abstract	BERT (Devlin et al., 2018) and RoBERTa (Liu et al., 2019) has set a new state-of-the-art performance on sentence-pair regression tasks like semantic textual similarity (STS). However, it requires that both sentences are fed into the network, which causes a massive computational overhead: Finding the most similar pair in a collection of		
	abstract			10,000 sentences requires about 50 million inference computations (~65 hours) with BERT. The construction of BERT makes it unsuitable for semantic similarity search as		
	versions			well as for unsupervised tasks like clustering. In this publication, we present Sentence-BERT (SBERT), a modification of the pretrained BERT network that use siamese and triplet network structures to derive semantically meaningful sentence embeddings that can be compared using cosine-similarity. This reduces the effort for finding the most		
				similar pair from 65 hours with BERT / RoBERTa to about 5 seconds with SBERT, while maintaining the accuracy from BERT. We evaluate SBERT and SRoBERTa on common STS tasks and transfer learning tasks, where it outperforms other state-of-the-art sentence embeddings methods.		
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