	doc_1		doc_2		decision	id
cases	authors	Haochen Tan Wei Shao Han Wu	authors	Haochen Tan Wei Shao Han Wu Ke Yang Linqi Song		
		Ke Yang Linqi Song	title	A Sentence is Worth 128 Pseudo Tokens: A Semantic-Aware Contrastive Learning Framework for Sentence Embeddings		
			publication_date	2022-03-11 00:00:00		
	title	A Sentence is Worth 128 Pseudo Tokens: A	source	SupportedSources.SEMANTIC_SCHOLAR		
		Semantic-Aware Contrastive Learning Framework for Sentence Embeddings	journal	ArXiv		
			volume	abs/2203.05877	NOT DUPLICATES 383	
	source SupportedSources.OPENALEX		doi	10.48550/arXiv.2203.05877		383
	journal	Supported Sources. Of ENALEX	urls	• https://www.semanticscholar.org/paper/2886734184eb7efc1dca1b33c35d33bc41cdfe5c		
	volume		id	id-5139767384257331520		
	doi	None		Contrastive learning has shown great potential in unsupervised sentence embedding tasks, e.g., SimCSE (CITATION). However, these existing solutions are heavily affected		
	urls	https://openalex.org/W4226186836		by superficial features like the length of sentences or syntactic structures. In this paper, we propose a semantic-aware contrastive learning framework for sentence embeddings, termed Pseudo-Token BERT (PT-BERT), which is able to explore the pseudo-token space (i.e., latent semantic space) representation of a sentence while eliminating the impact of superficial features such as sentence length and syntax. Specifically, we introduce an additional pseudo token embedding layer independent of the		
	id id2628709532708716661		abstract	BERT encoder to map each sentence into a sequence of pseudo tokens in a fixed length. Leveraging these pseudo sequences, we are able to construct same-length positive		
	abstract	abstract		and negative pairs based on the attention mechanism to perform contrastive learning. In addition, we utilize both the gradient-updating and momentum-updating encoders to encode instances while dynamically maintaining an additional queue to store the representation of sentence embeddings, enhancing the encoder's learning performance for negative examples. Experiments show that our model outperforms the state-of-the-art baselines on six standard semantic textual similarity (STS) tasks. Furthermore,		
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				experiments and uniformity losses, as well as hard examples with different sentence lengths and syntax, consistently verify the effectiveness of our method.		
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