cases	doc_1			doc_2	decision	id
	authors	<ul> <li>Yanaka, H.</li> <li>Mineshima, K.</li> <li>MartÃnez-Gómez, P.</li> </ul>	authors	Hitomi Yanaka     Koji Mineshima     Pascual Martinez-Gomez     Daisuke Bekki		
		Bekki, D.	title	Determining Semantic Textual Similarity using Natural Deduction Proofs		
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	urls	1071	id	id-5539762192113612842		
	id	id8560951601927023793	abstract	Determining semantic textual similarity is a core research subject in natural language processing. Since vector-based models for sentence representation often use shallow information, capturing accurate semantics is difficult. By contrast, logical semantic representations capture deeper levels of sentence semantics, but their symbolic nature does		
	abstract			not offer graded notions of textual similarity. We propose a method for determining semantic textual similarity by combining shallow features with features extracted from natural deduction proofs of bidirectional entailment relations between sentence pairs. For the natural deduction proofs, we use ccg2lambda, a higher-order automatic inference system, which converts Combinatory Categorial Grammar (CCG) derivation trees into semantic representations and conducts natural deduction proofs. Experiments show that our system was able to outperform other logic-based systems and that features derived from the proofs are effective for learning textual similarity.		
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