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	Yinyu Lan     Shizhu He		authors	<ul> <li>Yinyu Lan</li> <li>Shizhu He</li> <li>Xiangrong Zeng</li> <li>Shengping Liu</li> <li>Kang Liu</li> <li>Jun Zhao</li> </ul>		
		Kang Liu	title	Path-based knowledge reasoning with textual semantic information for medical knowledge graph completion		
	authors	Xiangrong Zeng	publication_date	publication_date   2021-05-28 00:00:00		
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		Path-based knowledge reasoning with textual semantic information for medical knowledge graph	volume			
cases		completion	doi			
	publication_date	date 2021-05-27 00:00:00		<ul> <li>https://web.archive.org/web/20210602092828/https://arxiv.org/vc/arxiv/papers/2105/2105.13074v1.pdf</li> </ul>	DUPLICATES	$\ _{218}\ $
	source	SupportedSources.SEMANTIC_SCHOLAR	id	id8403929560720584441	Der Elerries	
	journal	BMC Medical Informatics and Decision Making		Knowledge graphs (KGs), especially medical knowledge graphs, are often significantly incomplete, so it necessitating a		
	volume	21	abstract	demand for medical knowledge graph completion (MedKGC). MedKGC can find new facts based on the exited knowledge in the KGs. The path-based knowledge reasoning algorithm is one of the most important approaches to this		
	doi	10.1186/s12911-021-01622-7				
	urls	• https://www.semanticscholar.org/paper/fec8e98f0144d85e32f0f27a190c3383ef3559f7		task. This type of method has received great attention in recent years because of its high performance and interpretability. In fact, traditional methods such as path ranking algorithm (PRA) take the paths between an entity pair as atomic features. However, the medical KGs are very sparse, which makes it difficult to model effective semantic representation for		
	id	id7683661631349394692		extremely sparse path features. The sparsity in the medical KGs is mainly reflected in the long-tailed distribution of		
	abstract	None		entities and paths. Previous methods merely consider the context structure in the paths of the knowledge graph and ignore the textual semantics of the symbols in the path. Therefore, their performance cannot be further improved due to the two aspects of entity sparseness and path sparseness. To address the above issues, this paper proposes two novel path-based		
	versions					
			versions	reasoning methods to solve the sparsity issues of entity and path respectively, which adopts the textual semantic information of entities and paths for MedKGC. By using the pre-trained model BERT, combining the textual semantic representations of the entities and the relationships, we model the task of symbolic reasoning in the medical KG as a numerical computing issue in textual semantic representation.		