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			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>		
		Yinyu Lan     Shizhu He	title	Path-based knowledge reasoning with textual semantic information for medical knowledge graph completion	]	
		Kang Liu	publication_dat	re 2021-05-27 11:45:59+00:00	]	
	authors	Xiangrong Zeng	source	SupportedSources.ARXIV		
		Shengping Liu	journal	None		
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		Path-based knowledge reasoning with textual semantic information for medical knowledge graph	doi			
	title	completion		<ul> <li>http://arxiv.org/pdf/2105.13074v2</li> <li>http://arxiv.org/abs/2105.13074v2</li> </ul>		
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	journal	BMC Medical Informatics and Decision Making	id	id6449780272992623313		
	volume	21	abstract	Background Knowledge graphs (KGs), especially medical knowledge graphs, are often significantly incomplete, so		
	doi	10.1186/s12911-021-01622-7		it necessitating a 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		
	urls	https://www.semanticscholar.org/paper/fec8e98f0144d85e32f0f27a190c3383ef3559f7		approaches to this 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 extremely sparse path features. The sparsity in the medical KGs is mainly reflected in the long-tailed distribution of entities and paths. Previous methods merely consider the context		
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	abstract	None				
	versions		versions	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 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.		