id id2285382340562254883 Events are happening in real world and real time, which can be planned and organized for occasions, such as social gatherings, festival celebrations, influential meetings, or sports activities. Social media platforms generate a lot of real-time text information regarding public events with different topics. However, mining social events is challenging because events typically exhibit heterogeneous texture and metadata are often ambiguous. In this and then build an event-based heterogeneous information network (HIN) integrating information metwork (HIN) integrating information and learn the optimal weights of meta-paths in different tasks. Third, we propose a streaming social event detection and evolution discovery framework for HINs based on meta-path similarity search, historical information about meta-paths, and heterogeneous DBSCAN clustering edetection and evolution discovery algorithms. Experimental results demonstrate that our proposed framework outperforms other alternative social event detection and evolution discovery algorithms. Experimental results demonstrate that our proposed framework outperforms other alternative social event detection and evolution.	doc_1		doc_2		decision
title Streaming Social Event Detection and Evolution Discovery in Heterogeneous Information Networks publication_date 2021-04-02 00:00:00 source SupportedSources.SEMANTIC_SCIIOLAR	authors	 Jianxin Li Yangqiu Song Renyu Yang R. Ranjan Philip S. Yu 		 Jianxin Li Yangqiu Song Renyu Yang Rajiv Ranjan Philip S. Yu Lifang He 	
surce SupportedSources.SEMANTIC SCHOLAR publication_date* 20-40-20-09-09-09-09-09-09-09-09-09-09-09-09-09				, ,	
publication_date 2021-04-02 00:00:000 source SupportedSources_SEMANTIC_SCHOLAR		Streaming Social Event Detection and Evolution Discovery in Heterogeneous Information Networks			
Journal ACM Transactions on Knowledge Discovery from Data (TKDD)	publication_dat		journal	None	
volume 15	source	**	volume		
doi 10.1145/3447585 urls • https://www.semanticscholar.org/paper/e767fb1a7227660a8ea8138dfdf2b73cb3f1bf24 id id2285382340562254883 Events are happening in real world and real time, which can be planned and organized for occasions, such as social gatherings, festival celebrations, influential meetings, or sports activities. Social media platforms generate a lot of real-time text information regarding public events with different topics. However, mining social events is challenging because events typically exhibit heterogeneous texture and metadata are often ambiguous. In this article, we first design a novel event-based meta-schema to characterize the event-based meta-schema to characterize the semantic relatences of social events and then build an event-based heterogeneous information network (HIN) integrating information in once there are the similarity search, historical information about meta-paths, and heterogeneous DBSCAN clustering method. Comprehensive experiments on real-world streaming social event detection and evolution discovery framework for HINs based on meta-path similarity search, historical information and evolution discovery framework for HINs based on meta-path similarity search, historical information and evolution discovery framework for HINs based on meta-path similarity search, historical information and evolution discovery framework for HINs based on meta-path similarity search, historical information and evolution discovery framework for HINs based on meta-path similarity search, historical information and evolution discovery framework for HINs based on meta-path similarity search, historical information and evolution discovery framework for HINs based on meta-path similarity search, historical information and evolution discovery framework for HINs based on meta-path similarity search, historical	journal		doi		
cases Int 10.1145/3447585				• http://arxiv.org/pdf/2104.00853v1	
Events are happening in real world and real time, which can be planned and organized for occasions, such as social gatherings, festival celebrations, influential meetings, or sports activities. Social media platforms generate a lot of real-time text information regarding public events with different topics. However, mining social events is challenging because events typically exhibit heterogeneous texture and metadata are often ambiguous. In this article, we first design a novel event-based meta-schema to characterize the semantic relatedness of social events and then build an event-based heterogeneous information network (HIN) integrating information from external knowledge base. Second, we propose a novel Pairwise Popularity Graph Convolutional Network, named as PP-GCN, based on weighted meta-path instance similarity and textual semantic representation as inputs, to perform fine-grained social event categorization and learn the optimal weights of meta-paths, in different tasks. Third, we propose a streaming social event detection and evolution discovery framework for HINs based on meta-path instance similarity search, historical information about meta-paths, and heterogeneous DBSCAN clustering detection and evolution discovery algorithms. Experimental results demonstrate that our proposed framework outperforms other alternative social event detection and evolution discovery techniques. Versions	ses		urls	• http://arxiv.org/abs/2104.00853v1	DUPLICATES 229
gatherings, festival celebrations, influential meetings, or sports activities. Social media platforms generate a lot of real-time text information regarding public events with different topies. However, mining social events is challenging because events typically exhibit heterogeneous texture and metadata are often ambiguous. In this pater, we first design a novel event-based meta-schema to characterize the semantic relatedness of social events and then build an event-based heterogeneous information network (HIN) integrating information from external knowledge base. Second, we propose a novel Pairwise Popularity Graph Convolutional Network, named as PP-GCN, based on weighted propose a streaming social event detection and evolution discovery framework for HINs based on meta-path similarity search, historical information about meta-paths in different tasks. Third, we propose a streaming social event detection and evolution discovery framework for HINs based on meta-path similarity search, historical information about meta-paths in different tasks. Third, we propose a streaming social event detection and evolution discovery framework for HINs based on meta-path similarity search, historical information about meta-paths, and heterogeneous DBSCAN clustering detection and evolution discovery glagorithms. Experimental results demonstrate that our proposed framework outperforms other alternative social event detection and evolution discovery algorithms. Experimental results demonstrate that our proposed framework outperforms other alternative social event detection and evolution discovery algorithms. Experimental results demonstrate that our proposed framework outperforms other alternative social event detection and evolution discovery algorithms. Experimental results demonstrate that our proposed framework outperforms other alternative social event detection and evolution discovery algorithms. Experimental results demonstrate that our proposed framework outperforms other alternative social event detection and evolutio	id	id2285382340562254883	id	id-854271328413357332	
discovery techniques.		gatherings, festival celebrations, influential meetings, or sports activities. Social media platforms generate a lot of real-time text information regarding public events with different topics. However, mining social events is challenging because events typically exhibit heterogeneous texture and metadata are often ambiguous. In this article, we first design a novel event-based meta-schema to characterize the semantic relatedness of social events and then build an event-based heterogeneous information network (HIN) integrating information from external knowledge base. Second, we propose a novel Pairwise Popularity Graph Convolutional Network, named as PP-GCN, based on weighted meta-path instance similarity and textual semantic representation as inputs, to perform fine-grained social event categorization and learn the optimal weights of meta-paths in different tasks. Third, we propose a streaming social event detection and evolution discovery framework for HINs based on meta-path similarity search, historical information about meta-paths, and heterogeneous DBSCAN clustering method. Comprehensive experiments on real-world streaming social text data are conducted to compare various social event detection and evolution discovery algorithms. Experimental results demonstrate that our proposed framework	abstract	such as social gatherings, festival celebrations, influential meetings or sports activities. Social media platforms generate a lot of real-time text information regarding public events with different topics. However, mining social events is challenging because events typically exhibit heterogeneous texture and metadata are often ambiguous. In this paper, we first design a novel event-based meta-schema to characterize the semantic relatedness of social events and then build an event-based heterogeneous information network (HIN) integrating information from external knowledge base. Second, we propose a novel Pairwise Popularity Graph Convolutional Network, named as PP-GCN, based on weighted meta-path instance similarity and textual semantic representation as inputs, to perform fine-grained social event categorization and learn the optimal weights of meta-paths in different tasks. Third, we propose a streaming social event detection and evolution discovery framework for HINs based on meta-path similarity search, historical information about meta-paths, and heterogeneous DBSCAN clustering method. Comprehensive experiments on real-world streaming social text data are conducted to compare various social event detection and evolution discovery algorithms. Experimental results demonstrate	