



# 5th ACM SIGSPATIAL International Workshop on the Use of GIS in Emergency Management

Tuesday, November 5, 2019

Chicago, Illinois, USA

## Program

9:00~10:20	<b>Section 1</b>	<b>Chair: Dr. Danhuai GUO</b>
	Invited Talk	
9:00~9:20	Spatio-Temporal Characteristics and Causes Analysis of Precipitation Anomalies During Flood Season in Central China Prof. Kun QIN	
9:20~9:40	Information System and Management for Campus Safety Yiping Zeng, Hui Zhang, Xiaodong Liu, Yanyun Fu, Qing Deng and Rui Ye	
9:40~10:00	Decentralized Human Movement Control and management for Campus Safety Xiaoxue Ma, Hui Zhang, Yanyun Fu, Yiping Zeng, Danhuai Guo and Yang Gao	
10:00~10:20	Spatial and Temporal Distribution of LPG Dispersion Concentration in Small-scale Space Yang Gao, Hui Zhang, Lei Xiao, Yanyun Fu and Xiaoxue Ma	
10:20~10:40	<b>Coffee Break</b>	
10:40~12:20	<b>Section 2</b>	<b>Chair: Prof. Kun QIN</b>
10:40~11:00	Experimental Investigation into the Acoustic Characteristics of the ground surface response due to Leakage in Buried Water-Filled Pipelines Shuan Yan, Hongyong Yuan, Yan Gao, Lizheng Deng, Boao Jin and Yifan Ma	
11:00~11:20	Bridge Improvement Cost Estimation through Both Discrete and Continuous Features Zhaojun Lin, Yanyun Fu, Xinzhi Wang, Yiping Zeng and Hui Zhang	
11:20~11:40	Using Social Media to Geo-Target Emergency Management Efforts Bandana Kar, Tzee Kiu Chow, Nathaniel Dede-Bamfo and Xiaohui Liu	
11:40~12:00	Emergency Broadcasting Message Transmission Based on CDR System Xin Yu, Guofang Sheng and Xunchun Li	
12:00~12:20	Risk Prediction and Assessment of Foodborne Disease Based on Big Data Mingke Zhang, Danhuai Guo and Jinyong Hu	
12:20~13:30	<b>Lunch</b>	



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<b>13:30~15:30</b>	<b>Section 3</b>	<b>Chair: Prof. Hui ZHANG</b>
<b>13:30~13:50</b>	AI Planning Applied to GIS-based Disaster Response Charles Petrie and Agnès Voisard	
<b>13:50~14:10</b>	From Raw Sensor Data to Semantic Trajectories Frédéric Bisone, Thomas Devogele and Laurent Etienne	
<b>14:10~14:30</b>	Path Optimization of Integrating Crowd Model and Reinforcement Learning Yanyun Fu, Wenxi Shi, Hui Zhang, Xiaoxue Ma, Yang Gao and Danhuai Guo	
<b>14:30~14:50</b>	Personality Effect on Driving Behavior Lin Zhang, Qi Wang, Han Xing, Ellen Li, Yongqiang Chen and Yi Liu	
<b>14:50~15:10</b>	Unlicensed Taxi Detection Algorithm Based on Traffic Surveillance Data Yao Tian, Jiaming Yang and Pengkai Lu	
<b>15:10~15:30</b>	Study on Comfortable Distance based Car-following model with Trajectory Data Han Xing, Shuyi Wang, Zifan Yang, Yao Ren, Nan Jia and Yi Liu	
<b>15:30~15:50</b>	<b>Coffee Break</b>	
<b>15:50~17:40</b>	<b>Section 4</b>	<b>Chair: Dr. Yi LIU</b>
<b>15:50~16:10</b>	Strategy of hybrid optimization algorithms for source parameters estimation of hazardous gas in field cases Yiduo Wang, Bin Chen, Zhengqiu Zhu and Chuan Ai	
<b>16:10~16:30</b>	A Promising Searching Method 'Entrotaxis-Jump' for Seeking Hazardous Gas Source in a Chemical Cluster Yong Zhao, Bin Chen, Zhengqiu Zhu, Rongxiao Wang, Hailiang Chen and Xiaogang Qiu	
<b>16:30~16:50</b>	Determination of the Number and Distribution of Charging Stations for Electric Vehicles Mengna Zhu, Bin Chen, Yatai Ji and Jie Zhang	
<b>16:50~17:10</b>	Chemical Cluster Environmental Protection Patrolling Game Based on Cooperation Mechanism Feiran Chen, Bin Chen, Steven Zhu and Chuan Ai	
<b>17:10~17:20</b>	<b>Best Paper Voting</b>	
<b>17:20~17:40</b>	<b>Closing Remarks</b> Prof. Hui ZHANG	