## **The 27th International Conference on Geoinformatics**

Monday, 1st July 2019	
15:00 - 18:00	Registration Opens
18:00 - 20:30	Welcome Reception (Marble Bar, Hilton Hotel)

## **The 27th International Conference on Geoinformatics**

Tuesday, 2	Tuesday, 2nd July 2019	
8:30 - 9:00	Openning Ceremoney	
9:00 - 10:20	Keynote Session 1 (40 minutes each) Chairman: Changshan Wu	
	<b>Geo-Social Sensing for Urban Study and Social Management</b> Prof. Jianya Gong	
	School of Remote Sensing and Information Engineering, Wuhan University Wuhan, China	
	<b>Geographic Language Evolution and Human Geographic Studies</b> Prof. Hui Lin	
	The Chinese University of Hong Kong, Hong Kong, China	
10:20 - 10:40	Tea/Coffee Break	
	Presentation Session 1Social Sensing, GIS and TransportationChairman: Xun Shi	
10:40 -		
12:40	Paper ID: C-11053	
	The Missing Parts from Social Media Enabled Smart Cities: Who, Where, When, and What	
	Yihong Yuan, Yongmei Lu, Edwin T. Chow, Chao Ye, Abdullatif Alyaqout, and Yu Liu	
	Texas State University, USA	
	<b>Paper ID: C1105</b> Visualized Analysis of Short and Long-Distance Human Mobility on the Qinghai-Tibetan Plateau with Crowd Sourcing Data <i>Jun Xu, Chinese Academy of Sciences, China</i>	

Paper ID: C1107	
Research on Quality Evaluation Method of OpenStreet	Ian Road Network
Data Based on Remote Sensing Image	Tap Road Retwork
Haigang Sui, Wuhan University, China	
Paper ID: C11048	
Intelligent processing of social sensing data to assist rap	id disaster response
and mitigation	1
Jibo Xie, Chinese Academy of Sciences, China	
viso nie, eninese neudony of selences, enina	
Paper ID: C11013	
Modeling of Communicable Disease Transmissions with	n Real Human
Mobility and Disease Data	
Meifang Li, Yu Liu, Xia Li, Xun Shi	
Dartmouth College, USA	
Paper ID: C11029	
MindReader: A Knowledge-graph-aware Personalized	Travel
Recommendation System	
Jialing Gao, Feng Lu, Peiyuan Qiu, Chinese Academy	of Sciences China
Sunng Ouo, I eng Eu, I eryuun Qiu, Chinese Heuuemy	oj selences, enina
Paper ID: C11046	
Evaluation of Comprehensive Transport Superiority in t	he Core Area of
Changsha-Zhuzhou-Xiangtan Urban Agglomeration Ba	
Jun Fang, Chaokui LI, Wentao Yang, Keyan Xiao, Qing	
	ian Zhou
5 0 05	
12:40 Dec en ID: C11025	
Paper ID: C11035	Sen Ole ent de mar Trasffi e
<b>2 July 2019</b> Flow-weighted Graph Convolution Recurrent Network	or Short-term Traffic
Speeds Forecasting	
Jun Cao, Xuefeng Guan, Na Zhang, Huayi Wu	
Wuhan University, China	
Bonor ID: C11062	
Paper ID: C11062	CDC
Extracting Road Turns And Intersections From Low Free	equency OPS
Trajectory data	•
Caili Zhang, Longgang Xiang, Wuhan University, Ch	ina
12:40 – 13:30 Lunch break	
Keynote Session 2 (40 minutes each) Chairman: Qi	ming Zhou
	0
13:30 – Spatial Prediction and Laws of Geography	
15:30 Prof. A-Xing Zhu	
Department of Geography, University of Wisconsin-Ma	dison
Madison, Wisconsin, USA	
Smart Data for Connected Gardens	
Denise Ora	
Executive Director	
Botanic Gardens & Centennial Parklands	

	Remote Sensing and Predicting Earth's Water: Progress, Challenges and
	Opportunities Deef Mana Hang
	Prof. Yang Hong Peking University, Beijing, China
	Teking University, Deljing, China
15:30 - 15:50	Afternoon Tea/Coffee Break
	Presentation Session 2: Remote Sensing of Physical Environments Chairman: Qiming Zhou
15:50 -	Paper ID: C1103
18:05	Hydrological droughts measurement using GRACE satellite solution
2 July 2019	Aihong Cui, Jianfeng Li, Qiming Zhou, Guofeng Wu, Qingquan Li Hong Kong Baptist University, China
	Paper ID: C11016
	Study on Coordinative Observation Technology for High Altitude Barrier Lakes Xin Zhang, Chinese Academy of Sciences, China
	Paper ID: C11023
	The Continuous Monitoring and Instant Service Method for Flood Events under the Sensor Web Environment
	Wenying Du, Nengcheng Chen, Wuhan University, China
	Paper ID: C11052
	GIS Application in Watershed Processes Study
15:50 -	Shixiong Hu, Mengya Jia
<b>17:50</b>	East Stroudsburg University of PA, USA
2 July 2019	Paper ID: C11056
	UAV-based high spatial resolution monitoring and estimation of soil moisture
	status in a grape vineyard
	Tao Tang, Michael Radomski and Michael Stefan
	State University of New York - College at Buffalo, USA
	Paper ID: C11057
	Urban flood risk assessment and zoning in road environments: a case study of
	the Chang-Zhu-Tan Urban Agglomeration, China
	Shuang Yao, Nengcheng Chen, Chao Wang, Wenying Du
	Wuhan University, China
	Paper ID: C11025
	Mapping 10-m forest type area in Southern China with temporal-spatial-
	spectral features derived from Sentinel-2 time series images on the Google Earth Engine
	Kai Cheng, Juangle Wang, Chinese Academy of Sciences, China
	<u> </u>

	Paper ID: C1102
	Population Spatial Distribution Geo-simulaton in the Future to Support
	Beijing General Urban Planning (2016-2035) Based on CA-Markov Model
	Fang Liu, Weilun Sun
	Beijing University of Civil Eng. & Architecture, China
17:50 -	Break
18:30	<b>Conference Bus Departs at 18:10</b>
	Keynote and Panel Discussion Sessions, Award Function Dinner
18:30 -	
22:00	
	Keynote Speech (40 minutes)
2 July 2019	Prof. Daniel Sui
	Professor of Geography
	Vice Chancellor for Research and Innovation
	University of Arkansas, USA
	Panel Discussion Session (40 minutes)
	Topic: GIS in Higher Education
	Chairman: Professor Yongmei Lu, Texas State University, USA
	Awards Session
	<b>CPGIS Awards</b> <b>Chairman:</b> Professor Hui Lin, The Chinese University o Hong Kong
	GARF Awards Chairman: Chris Tsioulos, Director CMT Architects Australia

Wendesday, 3rd July 2019	
	Session 3: GIS and Planning Chairman: Junxiang Zhu
8:30 - 10:30	
3 July 2019	Paper ID: C1101
2	BIM/GIS Integration for Web GIS Based Bridge Management
	Junxiang Zhu, Yi Tan, Xiangyu Wang, Jun Wang
	Curtin University, Australia
	Paper ID: C11015
	Urban Expansion Simulation and Scenario Analysis in Major Cities of
	Central Asia
	Jing Qian, Qiming Zhou, Xi Chen, Shuhong Peng, Bo Sun
	Chinese Academy of Sciences, China
	Paper IDs: C11020
	Based on the energy analysis of cultivated land resource sustainable
	utilization evaluation in Wuhan city
	Lin Zhu, Huazhong Agricultural University, China
	Paper IDs: C11022
	The amenity value of of lake landscape in urban residential areas: estimates
	from a hedonic pricing model for Donghu
	Rongxuan Yang
	Huazhong Agricultural University, China
	Barrar ID: C110(5
	Paper ID: C11065
	The Spatial Pattern Study on Catering Industry based on Open Source Big
	Data in Beijing Central Urban Area
	Li Mei, Peking University, China
	Paper IDs: C11027
	Spatial-temporal Evolution and Influence Factors of Service Industry of
	Country-Level in Henan province from 2006 to 2016
	Hejia Fan
	East China Normal University, China
	Paper IDs: C11030
	Estimating Ground PM2.5 Concentration Using Spatial Varying Coefficient
	(SVC) Model
	Huangyuan Tan, Yumin Chen, Jingyi Zhang, Jiping Cao, Tao Fang
	Wuhan University, China
	Paper IDs: C11031
	Analysis of spatial disparities in health care accessibility: the comparison
	between the central part of two typical cities in China
	Meijie Chen, Yumin Chen, Fenglan Luo, Liheng Huang, Jiaxing Liao
	Wuhan University, China

	Paper IDm: C11032
	Exploring the Spatial Segregation of New Migrants Based on Activity Space:
	A Big Data Approach
	Qili Gao, Yang Yue; Qingquan Li
	Wuhan University, China
	ID C 110/2
	ID: C-11063
	A reconstruction method based on homonymy point index table of three views
	Views Hongrui Zhao, Wenjia Wu, Dongming Huang
	Tsinghua University, China
	Session 3a: ICITA
	Chairman: Errol Chopping
	Paper ID: ICITA-12011 (invited paper)
	Automated Seismic Data Processing using Deep Learning Networks
	M. Deriche, H. Nuha, M. Alfarhan, M. Mohandes, A. Maalej
	King Fahd University of Petroleum and Minerals, KFUPM, Saudi Arabia
	Paper ID: ICITA-12012
	A Concentric Cyber Security Zone Model
	Christopher J. Pavlovski, Kheli Koh, Leslie Nagy, and Andrew Gontarczyk
	Commonwealth Bank of Australia / Cyber Security, Australia
	Paper ID: ICITA-12009
	User's Intention to Purchase Mobile Games Application from Consumption
	Value Perspective
	Ili Hawa Ahmad, Ab Razak Che Hussin, and Norshidah Mohamed
	Prince Sultan University, Saudi Arabia
	Paper ID: ICITA-12010
	An Analysis of Evaluation Metrics of GANs
	Ili Hawa Ahmad, Ab Razak Che Hussin, and Norshidah Mohamed
	King Khalid University, Saudi Arabia
	ID: ICITA-12013
	Surface Region Decomposition for B-rep Model
	Dong Yan, Xu Jing, and Li Mei
	University of Shaoxing, China
10:30 - 10:40	Tea/Coffee Break
	Session 4: Remote Sensing of Physical & Urban Environments Chairman: Huiping Liu
	Paper IDs: C11044
	Calculated River Flow Attenuation Base of Ungauged Catchments in the
	Taklamakan Desert
	Juan Wang, Huiping Liu
L	Beijing Normal University, China

10:40 – 12:40 3 July 2019	<ul> <li>Paper IDs: C11061</li> <li>BeiDou satellite navigation simulation system on the CesiumJS virtual globe platform</li> <li>Xinlan Chen, East China Normal University, China</li> <li>Paper IDs: C11041</li> <li>Remote Sensing Classification Method of Vegetation Based on Mountain Altitude Belts</li> <li>Junyao Zhang, Yonghui Yao, Dongzhu Suonan Chinese Academy of Sciences, China</li> <li>Paper IDs: C11058</li> <li>How deeply the vegetation physiology effects due to increasing CO2 impact the terrestrial future hydrologic cycle over China?</li> <li>Gaoyun Shen, Nengcheng Chen, Zeqiang Chen, Wei Wang Wuhan University, China</li> </ul>
	<ul> <li>Paper ID: C1108 <ul> <li>A new dmsp/ols night time light data desaturation method based on NDBI and MNDWI</li> <li>Yuqian Wang, Chengpeng Huang, Kuan Qian, Xiaolong Li, Yongbin Tan and Penggen Cheng</li> <li>East China University of Technology, China</li> </ul> </li> <li>Paper ID: C11012 <ul> <li>A Study on the Spatial-temporal Pattern and Future Development Trend of Anthropogenic Heat Emission in Jiangsu Province</li> <li>Lingyan Weng, Xugao Han</li> <li>Nanjing University Jinling College, China</li> </ul> </li> </ul>
	<ul> <li>Paper ID: C11014</li> <li>Facade feature extraction method for buildings from three-dimensional point cloud data assisted by optical images <i>Yongzhi Wang, Yuqing Ma, A-xing Zhu, Hui Zhao, Sijing Zhu Jiangxi University of Science and Technology, China</i></li> <li>Paper ID: C-11018</li> <li>Spatial analysis of light pollution at street scale with LJ1-01 nighttime light remote sensing and mobile big data <i>Bo Sun, Qiming Zhou, Yang Zhang, Peng Wang Chinese Academy of Sciences, China</i></li> <li>Paper ID: C11067</li> <li>The research of support vector machine (SVM) based on particle swarm optimization in remote sensing image classification <i>Yi Zhang, East China Normal Universit, y China</i></li> </ul>

	Paper ID: C11028 Statistical downscaling simulation of precipitation in the data-scarce Tianshan Mountains, northwest China based on the Earth system data products Mengtian Fan, Jianhua Xu, East China Normal University, China
12:40 - 13:30	Lunch break
13:30 – 15:30 3 July 2019	Session 5: Remote Sensing of Urban EnvironmentsChairman: Qinghua Guo & Changshan WuPaper ID: C1106Understanding urban habitability in a 3D perspective based on Mobile Lidar
	data Jing Zhang, <b>QinghuaGuo</b> , Xiliang Sun, Yanjun Su Chinese Academy of Sciences, China
	Paper ID: C11037 Research on coupling and integrating Model-3 models for Air Pollution Simulation
	Lingshan Wang, Min Chen, Yongning Wen, Songshan Yue School of Geography Nanjing Normal University, China
	Paper ID: C11021Evaluation of the urban landscape structures and dynamics of Hawassa City, using satellite images and spatial metrics approaches, Ethiopia Berhanu Terfa Wuhan University, China
	Paper ID: C11054 Semi-Automatic Image Classification based on Transfer Learning Haiping Yang Zhejiang University of Technology, China
	Paper ID: C11055 A two-step scheme for mapping regional high resolution urban impervious surface <i>Min Huang, Nengcheng Chen, Xiang Zhang</i> <i>Wuhan University, China</i>
	Paper ID: C11019 Urban land use classification from very high resolution remote sensing imagery <i>Changshan Wu, University of Wisconsin-Milwaukee, USA</i>
	Paper ID: C11049 Unsupervised Representation Learning with GANs for Remote Sensing Images Wenxuan Liu, Huayi Wu, Wuhan University, China

	Paper ID: C11050 Statistical distribution of nonzero spatial autocorrelation parameter of a Simultaneous Autoregressive Model and its applications Qing Luo, Daniel A. Griffith, Huayi Wu Wuhan University, China
15:30-15:40	After tea/coffee break
	Presentation Session 6: GIS Modeling and WebGIS Chairman: Cheng-Zhi Qin
15:40 – 18:10 3 July 2019	Paper ID: C1104Automatically selecting environmental covariates for geographical variablemapping based on existing application cases – Taking digital soil mappingdomain as exampleCheng-Zhi Qin, Peng Liang, A-Xing ZhuChinese Academy of Sciences, China
	Paper ID: C11064 Research on vector tile map construction with data equalization principle <i>Mei Li, Ying Su, Ning Zhi, Yanxin Sun, Shanjun Mao</i> <i>Peking University, China</i>
	Paper ID: C11066 Mining Applications and Techniques from GIS Articles Li Yu, Li Qian, Caihong Deng, Zhipeng Dong National Science Library, Chinese Academy of Sciences, Beijing, China
	Paper ID: C11038 Preliminary Study on Network Collaboration Mode Oriented to Geographic Modeling and Simulation Yuchen Lu, Yongning Wen, Zaiyang Ma School of Geography Nanjing Normal University, China
	Paper ID: C11039A Parallel Computing Paradigm for Geo-analysis Models in the DistributedWeb EnvironmentMing Wang, Min Chen, Songshan YueSchool of Geography Nanjing Normal University, China
	Paper ID: C11036 Research on the Construction Method of the Service-Oriented Web-SWMM System Dawei Jiao, Min Chen, Yongning Wen, Songshan Yue School of Geography Nanjing Normal University, China

	Paper ID: C11068Permutation-test-based Clustering Method for Detection of DynamicPatterns in Spatio-temporal DatasetsQiLiang Liu, Wenkai Liu, Jianbo Tang, Min Deng, Yaolin LiuDepartment of Geo-informatics, Central South University, Changsha,Hunan, China
15:40 – 18:10 3 July 2010	Paper ID: C11024Knowledge-based Interactive Workflow Engine of Collaborative GeographicSimulationYuting Chen, Hui LinThe Chinese University of Hong Kong, China
3 July 2019	The Chinese University of Hong Kong, China
	Paper ID: C11034 Multi-granular POIs identification from trajectories using hierarchical GMM-RF model on Web Map Service Platforms <i>Guangsheng Dong, Rui Li, Huayi Wu, Ru Li</i> <i>Wuhan University, China</i>
	<b>ID: C-11043</b> Comparative study on the mountain elevation effect of the Tibetan Plateau and the Alps and their implications for alpine tree lines <i>Dongzhu Suonan, Yonghui Yao, Junyao Zhang</i> <i>Chinese Academy of Sciences, China</i>
	ID: C-11091
	Influence of short wave albedo on soil surface temperature of bare farmland: a case study from Nanyang Basin, China Pengcheng Qi, Rui Li, Shixiong Hu, Yan Cui Nanyang Normal University, China
18:10 - 19:00	Break
	Walking to the Gala Dinner Venue takes about 5 minutes
10.00 23.00	
19:00 - 23:00	Panel Discussion Session 2 (40 minutes each)
	<b>Chairman:</b> Professor Xun Shi, Dartmouth College, USA <b>Topic:</b> "Big" data and "small" data in geospatial analysis.
	Topic. Dig uata and sman uata in geospatial analysis.
	Conference Gala Dinner
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Thursday – Sunday, 4 – 7 July 2019	
	Field Trips
	Detail in Special Field Trips
	(Tickets are required)