16th International Conference on Computers in Urban Planning and Urban Management



July 08-12 Wuhan, China



CUPUM 2019







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Preface

The past thirty years since the first CUPUM conference witnessed tremendous progress in the applications of computing technologies in both urban development and urban life itself. Thirty years after, advances in computing, information, communication and webbased technologies have reached into every facet of daily life, reshaping urban life as we know it. Massive and pervasive data generation with the universal adoption of networked computing technologies, on the other hand, offers unparalleled solutions for planning and managing urban futures.

It is under these unprecedented circumstances that after fifteen successful conferences around the globe we are brought here back in China, where e-commerce, social network services, wireless communication techniques, intelligent image processing and other emerging technologies have immensely changed retails, transportation, logistics, etc., impacting industries and academia alike. And here in Wuhan University, we enjoy not only the magnificence in landscape and culture, but also a quarter-century history of exploring digital and intelligent planning with combined efforts of remote sensing, land surveying and geoinformatics.

We sincerely welcome you to this grand event, and wish you a wonderful stay here in Wuhan.

CUPUM2019 Local Organizing Committee









Keynote Speakers

Michael Batty

FBA, FAcSS, FRS, Professor, University College London, UK **Deren Li**

Member of CAS, Professor, Wuhan University, China

Anthony G. O. Yeh

Member of CAS, Professor, The University of Hong Kong, China

Jianya Gong

Member of CAS, Professor, Wuhan University, China

Zhiqiang Wu

Member of CAE, Professor, Vice-president, Tongji University, China

Zhenjiang Shen

Member of Japanese Academy of Engineering Professor, Kanazawa University, Japan

Qingquan Li

Member of International Eurasian Academy of Sciences Professor, President, Shenzhen University, China

Xia Li

Member of International Eurasian Academy of Sciences, Professor, East China Normal University, China

Xinchang Zhang

Member of International Eurasian Academy of Sciences,

Professor, Guangzhou University, China

Stan Geertman

Professor, Utrecht University, The Netherlands

Joseph Ferreira

Professor, Massachusetts Institute of Technology, USA







Invited Speakers

Andrew Allen

Professor, University of South Australia, Australia

Anrong Dang

Professor, Tsinghua University, China

Qingyun Du

Professor, Dean, Wuhan University, China

Bo Huang

Professor, Chinese University of Hong Kong, China

Zhengdong Huang

Professor, Shenzhen University, China

Yan Liu

Professor, The University of Queensland, Australia

Ying Long

Distinguished researcher, Tsinghua University, China

Qisheng Pan

Professor, Texas Southern University, USA

Christopher Pettit

Professor, University of New South Wales (Australia)

John Wenzhong Shi

Professor, The Hong Kong Polytechnic University, China

Nelson Rodrigues da Silva

Professor, University of Sao Paulo, Brazil

Paul Waddell

Professor, University of California, Berkeley, USA

De Wang

Professor, Tongji University, China







Donggen Wang

Professor, Hongkong Baptist University, China

Huayi Wu

Professor, Wuhan University, China

Ray Wyatt

Professor, University of Melbourne, Australia

Perry Pei-Ju Yang

Professor, Georgia Institute of Technology, USA

Xiaobai Yao

Professor, The University of Georgia, USA

Ming Zhang

Professor, University of Texas at Austin, USA

Feng Zhen

Professor, Nanjing University, China

Suhong Zhou

Professor, Sun Yat-Sen University, China









Tentative Conference Schedule

Date	Time	Session	
	09:00-20:00	Registration @ Lobby of Nanyuan Building	ı
		ture Cities Masterclass (Presentations – part I) eeting Room No.4 of Nanyuan Building (4 th floor)	Speaker
	09:30-10:00	Analytics for Future Cities	Micheal Batty
	10:00-10:30	City Analytics and Smart Cities	Chris Pettit
	10:30-11:00	Foresighting Future Cities	Hoon Han
8 July,	11:00-11:30	Panel 1 Future Cities – Challenges and Opportunities	Micheal Batty, Chris Pettit, Hoon Han
Monday		ture Cities Masterclass (Presentations – part II) eeting Room No.4 of Nanyuan Building (4 th floor)	Speaker
	13:30-14:00	Urban accessibility and urban growth	Duncan Smith
	14:00-14:30	Big data analytics in London	Chen Zhong
	14:30-15:00	From transport data to transport design	Oliver Lock
	15:00-15:30	Panel 2 – Big Data, Analytics and Data Infrastructures	Duncan Smith, Chen Zhong, Oliver Lock
	19:00-20:00	Reception @ Garden Hall of Nanyuan Building (2	2 nd floor)







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	@ Co	Opening Ceremony onference Center of Nanyuan Building (4 th floor)	Moderator
	09:00-09:10	President's Welcome Address President or Vice-president of Wuhan University	
	09:10-09:20	Address Prof. Stan Geertman, Chair of CUPUM Board	Prof. Zhigang Li
	09:20-09:30	Address Prof. Qingming Zhan, Chair of CUPUM-2019 Organizing Committee	
	09:30-09:45	Group Photo @ Entrance stair of Nanyuan Building (1 st floor)	Prof. Qingming Zhan
	0.0	Keynote Session	
	@ Co	onference Center of Nanyuan Building (4 th floor)	
9 July, Tuesday	09:45-10:15	Problems and solutions for megacities Prof. Deren Li, Wuhan University	
racoday	10:15-10:45	Big Data Supported Urban Planning for Intelligent City	
		Prof. Zhiqiang Wu, Tongji University	Prof.
	10:45-11:00	Coffee Break & Poster Sessions	Anthony G.O.
	11:00-11:30	Planning as Conflict Resolution: Opinion Pooling Across Networks to Generate Physical Plan Design Prof. Michael Batty, UCL	Yeh
	11:30-12:00	Some Thoughts on Undergraduate Education & Research in Urban Informatics Prof. Qingquan Li, Shenzhen University	
	12:00-14:00	Buffet Lunch & Poster Sessio @ Garden Hall of Nanyuan Building (2	_
	14:00-17:30	Parallel Sessions @ Meeting Room No.1-5 of Nanyuan Build	ding (4 th floor)







CUPUM			
	Keynote Speeches @ Conference Center of Nanyuan Building (4 th floor		Moderator
	09:00-09:30	Past, Present and Future of Computers in Urban Planning and Urban Management: From ICT to Super Smart Cities Prof. Anthony G.O. Yeh, The University of Hong Kong	
	09:30-10:00	Planning Support Science: Past, Present, Future Prof. Stan Geertman, Utrecht University	
	10:00-10:30	Towards Urban Informatics Prof. John, Wenzhong Shi, The Hong Kong Polytechnic University	Duck
	10:30-10:45	Coffee Break & Poster Sessions	Prof. Michael
10 July, Wednes- day	10:45-11:15	Smart Steps: behavioral ensemble as foundation of spatial planning Zhoutian Tao Vice President, CTO, Smart Steps Digital Technology Co., Ltd.	Batty
	11:15-11:45	Spatiotemporal data analytics for evidence- based spatial planning Prof. Bo Huang, Chinese University of Hong Kong	
	11:45-12:15	Decoding Spatial Scaling Structure of Cities Prof. Xiaobai Yao, The University of Georgia	
	12:15-14:00	Buffet Lunch & Poster Sessions @ Garden Hall of Nanyuan Building (2 nd	floor)
	14:00-18:00	Parallel Sessions @ Meeting Room No.1-5 of Nanyuan Building	y (4 th floor)
	19:00-21:00	Conference Banquet @ Yang Chun Tang of Yingbin Building (4 ^t	^h floor)







	09:00-12:00	Parallel Sessions @ Meeting Room No.1-5 of Nanyuan Building	ı (4 th floor)
11 July, Thursday	12:00-14:00	Buffet Lunch & Poster Sessions @ Garden Hall of Nanyuan Building (2 nd floor)	
	14:00-18:00	Parallel Sessions @ Meeting Room No.1-5 of Nanyuan Building	j (4 th floor)
	@0	Keynote Session Conference Center of Nanyuan Building (4 th floor)	Moderator
	09:00-09:30	Developing smart cities: from urban management to social governance Prof. Jianya Gong, Wuhan University	
	09:30-10:00	Connecting Big Data and Urban Science to Planning Support Systems Prof. Joseph Ferreira, MIT	
	10:00-10:30	Urban diagnosis: the planning issue of evacuation accommodation areas in Kanazawa urban area Prof. Zhenjiang Shen, Kanazawa University	Prof.
	10:30-10:45	Coffee Break & Poster Sessions	Stan Geertman
	10:45-11:15	Global projection of future urban land expansion and its consequence under shared socioeconomic pathways Prof. Xia Li, East China Normal University	
12 July, Friday	11:15-11:45	Research and application of data integration and cascade updating of basic map in spatial planning of natural resources Prof. Xinchang Zhang, Guangzhou University	
	@0	Closing Ceremony Conference Center of Nanyuan Building (4th floor)	
	11:45-11:55	Best Poster Awards	Prof. Qingming
12:05	11:55-12:05	Selection of CUPUM-2021 Hoster	Zhan
	12:05-12:15	Closing Remark	
	12:15-13:30	Buffet Lunch @ Garden Hall of Nanyuan Building (2 nd	floor)
	13:30-17:30	Technical Visits (1) The State Key Laboratory of Information E Surveying, Mapping and Remote Sensing (LIESM (2) Wuhan Urban Planning Exhibition Hall (WUPEH) (3) Wuhan Land Use and Urban Spatial Planning Res (WLSP) (4) Wuhan Planning and Design Institute (WPDI)	ARS)







Schedule of Parallel Sessions

Parallel sessions on the first conference day (Afternoon, 9 July)

Parallel Sess	Parallel Session 1: Smart City		
2019-07-09	14:00-18:00	Location: Meeting Room No.1 at fourth floor of Nanyuan Building	
Chair: Prof. 2	Zhixiang Fang, Co-C	hair: Prof. Andrew Allan	
14:00-14:30	Assignment and Ro	Process for Emergency Evacuation Planning: Shelter outing of. Andrew Allan, University of South Australia	
(25+5)	•	an, Ali Soltani, Mohammad Heydari	
14:30-15:00 (25+5)		r Automata Modelling: Where Do We Go from Here? of. Yan Liu, The University of Queensland	
15:00-15:20 (15+5)	Space Experimenta	Vaiting Behavior in a Public Square by Using a Virtual al System Kino, Satoshi Ohasi, Toshiyuki Kaneda	
15:20-15:40 (15+5)	Title: Social Media-based Analysis in Spatial Distribution of Gay Men and Its Relationship with Built Environment Author: Zhenyu Zhang		
15:40-16:10	Coffee Break & Poster Exhibition		
16:10-16:30 (15+5)	of-travel: a proposa	ive regional accessibility model based on actual routesal with multiple online data	
16:30-16:50 (15+5)	·	of Transport Network Companies on Urban Mobility	
16:50-17:10 (15+5)		n-street parking on urban heat island and human thermal Seoul residential neighborhood during summer en Jige Quan	
17:10-17:30 (15+5)	Title: Analysing the Author: Joel Dearde	e dynamics of urban development using state space en	
17:30-18:00		Poster Exhibition	







	Parallel Session 2: International Review for Spatial Planning and Sustainable Development	
2019-07-09	14:00-18:00 Location: Meeting Room No.2 at fourth floor of Nanyuan Building	
Chair: Prof.	Yan Ma, Co-Chair: Prof. Ray Wyatt	
14:00-14:30 (25+5)	Title: Generational differences in attitudes towards car, car ownership and car use in Beijing Invited Speaker: Prof. Donggen Wang, Hong Kong Baptist University	
14:30-15:00 (15+5)	Title: How are the air pollutants distributed? – a case study of Beijing Authors: Xiaobai Yao, Liding Chen, Ye Tian	
15:00-15:20 (15+5)	Title: The network analysis of urban streets of China cities Authors: Lobsang Tashi, Feng Zhen, Shanqi Zhang	
15:20-15:40 (15+5)	Title: Research on Spatial Expansion of Urban Agglomeration of Wuhan, Ezhou, Huanggang and Huangshi Based on DMSP_OLS Night Light Data Authors: Meiqi Shao, Yifan Zhu	
15:40-16:10	Coffee Break & Poster Exhibition	
16:10-16:30 (15+5)	Title: Cellular Automata Model Optimization and Its Application in Urban Planning Authors: Jinying Du, Jiangang Xu	
16:30-16:50 (15+5)	Title: Dubai Expo 2020: The Investigation and Planning of Route 2020 of Dubai Metro to Facilitate Smart Urbanism Authors: Bashar Taha, Andrew Allan	
16:50-17:10 (15+5)	Title: Correlating Household Travel Carbon Emissions, Travel Behavior and Land Use: Case Study of Wuhan, China Authors: Jingnan Huang, Ningrui Du, Ming Zhang	
17:10-17:30 (15+5)	Title: An immersive 3D virtual environment to support collaborative learning and teaching. Authors: Aida Afrooz, Christopher Pettit, Lan Ding	
17:30-18:00	Poster Exhibition	







Chair: Prof. Huayi Wu, Co-Chair: Prof. Nelson Rodrigues da Silva Title: Commuting Models in Shanghai Based on Cellular Signaling Data: Methods and Application Invited Speaker: Prof. De Wang, Tongji University Authors: De Wang, Jiahuan Gu Title: Temporal and Spatial Evolution Characteristics of Rail Transit and Land Use and Their Relationship: A Case Study of Shenzhen, China Invited Speaker: Prof. Zhengdong Huang, Shenzhen University Author: Xinlei Tang, Zhengdong Huang, Mu Lin 15:00-15:20 (15+5) Authors: Wencong Cui, Jianyi Li, Wangtu Xu, Burak Güneralp 15:20-15:40 (15+5) Title: Two-dimensional simulation of urban flood based on geographic information system and HEC-RAS model Authors: Yan Zhou, Lei Fang, Yang Yu 15:40-16:10 Coffee Break & Poster Exhibition 16:30-16:50 (15+5) Title: An analysis of Factors Influencing Disaster Mobility using Location Data From smartphones: Case study of Western Japan Flooding Authors: Joo Soohyun, Kashiyama. T, Sekimoto, Y, Seto, T, Na Gao 16:50-17:10 (15+5) Title: A Preliminary Study on Micro-Scale Planning Support System Authors: Daosheng Sun, Xiaochun Huang, Lianna He, Tengyun Hu, Yilong Rong 17:10-17:30 (15+5) Title: Research on dynamic Information recording and Art Activation of Industrial Heritage based on tilting Photography Author: Ming Zhang 17:50-18:00 Poster Exhibition	Parallel Sess	Parallel Session 3: Geo-Spatial Information Science	
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Data From smartphones: Case study of Western Japan Flooding Authors: Joo Soohyun, Kashiyama. T, Sekimoto, Y, Seto, T, Na Gao 16:50-17:10 (15+5) Title: A Preliminary Study on Micro-Scale Planning Support System Authors: Daosheng Sun, Xiaochun Huang, Lianna He, Tengyun Hu, Yilong Rong 17:10-17:30 (15+5) Title: Exploring Shared-Bike Travel Patterns Using Big Data: Evidences in Chicago and Budapest Authors: Ali Soltani, Tamas Matrai, R. Camporeale 17:30-17:50 (15+5) Title: Research on dynamic Information recording and Art Activation of Industrial Heritage based on tilting Photography Author: Ming Zhang		Dockless Bike-Sharing System	
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17:30-17:50 (15+5) Title: Research on dynamic Information recording and Art Activation of Industrial Heritage based on tilting Photography Author: Ming Zhang		Chicago and Budapest	
(15+5) Industrial Heritage based on tilting Photography Author: Ming Zhang	,		
		Industrial Heritage based on tilting Photography	
	17:50-18:00		







Parallel Sess	Parallel Session 4: Cities		
2019-07-09	14:00-18:00 Location: Meeting Room No.4 at fourth floor of Nanyuan Building		
Chair: Prof.	Joe Ferreira, Co-Chair: Prof. Ming Zhang		
14:00-14:30	Title: Smart Planning		
(25+5)	Invited Speaker: Prof. Feng Zhen, Nanjing University		
14:30-15:00 (25+5)	Title: A cloud-service based Planning Support System for small towns in remote mountainous regions		
	Invited Speaker: Prof. Ming Zhang, University of Texas at Austin		
15:00-15:20	Title: Cluster Analysis and Characteristic Analysis of Shanghai Metro Stations Based on Metro Card and Land Use Data		
(15+5)	Authors: Ping Shen , Linxin Ouyang, Chong Wang, Yin Shi, Yiheng Su		
15:20-15:40	Title: An Index-to-Form Generation Tool Applied in Performance-Oriented Urban Design Optimization		
(15+5)	Authors: Chengyu Sun, Jian Rao , David Liang		
15:40-16:10	Coffee Break & Poster Exhibition		
16:10-16:30 (15+5)	Title: Explore the Relationship between Diversity and Density of Urban Activities by POI-based Measurements: Case Studies of Three Typical Chinese Cities		
	Authors: Haochen Shi, Yufeng Yue		
16:30-16:50	Title: An agent-based model simulation of human mobility based on mobile phone data: how commuting relates to congestion		
(15+5)	Authors: Hao Wu , Lingbo Liu, Yang Yu, Zhenghong Peng, Hongzan Jiao, Qiang Niu		
16:50-17:10	Title: Taxi Behavior Simulation and Improvement with Agent-Based Modeling		
(15+5)	Authors: Saurav Ranjit , Apichon Witayangkurn, Masahiko Nagai, Ryosuke Shibasaki		
17:10-17:30	Title: Toward a better understanding of urban sprawl: linking spatial metrics and landscape networks dynamics		
(15+5)	Authors: Tengyun Hu , Xiaochun Huang, Xuecao Liu, Lu Liang, Xue Fei		
17:30-17:50 (15+5)	Title: The Relationship between Employment Polycentric Spatial Structure and Jobs-housing Matching and Its Influencing Mechanism——A Case Study of Hangzhou City Based on Cellphone Signaling Data		
	Authors: Juan Zhu, Xinyi Niu		
17:50-18:00	Poster Exhibition		







Parallel Sess	Parallel Session 5: Smart and Intelligent City	
2019-07-09	14:00-18:00 Location: Meeting Room No.5 at fourth floor of Nanyuan Building	
Chair: Prof. 0	Qingming Zhan, Co-Chair: Prof. Christopher Pettit	
14:00-14:30 (25+5)	Title: Geodesign - A Tale of 3 Cities Invited Speaker: Prof. Christopher Pettit, University of New South Wales Authors: Christopher Pettit, Scott Hawken, Carmela Ticzon, Hitomi Nakanishi	
14:30-15:00 (25+5)	Title: Progress and Trends of Smart City Development in China Invited Speaker: Anrong Dang, Tsinghua University	
15:00-15:20 (15+5)	Title: Mobile Phone Signaling Data Based Development Model of Jobs-Housing Space Characteristics of Guangzhou Authors: Lang Yang, Lina Zhou	
15:20-15:40 (15+5)	Title: Making and evaluating scenarios of future population distribution based on multiple evaluation in the city with population decreasing Authors: Shota Tamura, Takahiro Tanaka	
15:40-16:10	Coffee Break & Poster Exhibition	
16:10-16:30 (15+5)	Title: Research and Practice on Dimensional Ascension and Descension of Spatiotemporal Data in Spatial Planning Authors: Qing Lu, Huihui Nan, Qian Zhao, Zhiheng Zhang, Caixia Kang	
16:30-16:50 (15+5)	Title: Sustainable Development Mode of Spatial Structure of Urban Center in Guiyang, China: A Dynamic "Multi-Center" Development Structure Authors: Zijiang Yang, Xiong He, Kun Zhang, Xin Shan	
16:50-17:10 (15+5)	Title: Uncovering Characteristics of Intercity Commuting between Shanghai and its Surrounding Cities with Mobile Phone data Author: Jiawei Liu	
17:10-17:30 (15+5)	Title: Urban Land Use Layout Agent-based Model Research Based on Baidu POI Data Authors: Wenhan Feng, Bayi Li, Lingda Kong	
17:30-18:00	Poster Exhibition	







Parallel sessions on the second conference day (Afternoon, 10 July)

Parallel Session 1: Smart City	
2019-07-10	14:00-18:00 Location: Meeting Room No.1 at fourth floor of Nanyuan Building
Chair: Prof. 2	Zhixiang Fang, Co-Chair: Prof. Joseph Ferreira
14:00-14:30 (25+5)	Title: Spatio-temporal Geographic Environmental Exposure and Healthy City Planning Invited Speaker: Prof. Suhong Zhou, Sun Yat-sen University
14:30-15:00 (25+5)	Title: Data Augmented Design: Embracing New Data for Urban Sustainable Design and Planning Invited Speaker: Dr. Ying Long, Tsinghua University
15:00-15:20 (15+5)	Title: Efficient Regional Travel for Rescue and Relief Activities in a Disaster Authors: Toshihiro Osarag i, Masashi Kimura, Takuya Oki
15:20-15:40 (15+5)	Title: Proposal of the Method to Evaluate the Location of Aged Care Facilities in Urban Areas Using Median Share Ratio Authors: Koya Tsukahara, Kayoko Yamamoto
15:40-16:10	Coffee Break & Poster Exhibition
16:10-16:30 (15+5)	Title: Meida People and Cities: Social Sensing for Urban Planning Based on Semantic Computing Authors: Wencheng Yu, Qizhi Mao, Yilong Rong, Songmao Zhang, Na Gao
16:30-16:50 (15+5)	Title: Spatiotemporal Information System Using Mixed Reality for Area-Based Learning and Sightseeing Authors: Ryuhei Makino, Kayoko Yamamoto
16:50-17:10 (15+5)	Title: A Simulation Platform for Transportation Land Use and Mobile Source Emissions Authors: Liyuan Zhao, ZhongRen Peng
17:10-17:30 (15+5)	Title: The comparison between two different algorithms of spatio-temporal forecasting for traffic flow prediction Authors: Haochen Shi, Yufeng Yue, Yunqi Zhou
17:30-18:00	Poster Exhibition



17:10-18:00





	Parallel Session 2: International Review for Spatial Planning and Sustainable Development	
2019-07-10	14:00-18:00 Location: Meeting Room No.2 at fourth floor of Nanyuan Building	
Chair: Prof. I	Miaoyi Li, Co-Chair: Prof. Qingming Zhan	
14:00-14:20 (15+5)	Title: A new approach for detecting urban centers and their spatial structure with nighttime light remote sensing Authors: Zuoqi Chen, Bailang Yu, Kaifang Shi, Jianping Wu, Wei Song, Hongxing Liu, Qiusheng Wu	
14:20-14:40 (15+5)	Title: Analysis of PM2.5 Spatial Distribution Pattern at Urban Scale Based on Multi-source Data: A Case Study of Wuhan Authors: Zhiyu Fan, Qingming Zhan, Wei Xue, Jiaqi Wu, Xuan Zhao, Muhammad Bilal	
14:40-15:00 (15+5)	Title: Method for Simulating a MATSim Multi-Agent Activity-Based Transport Model in Developing Countries Authors: Daniele F. Miranda, F. S. de Arruda	
15:00-15:20 (15+5)	Title: An approach to urban natural ventilation potential analysis with GIS hydrological simulation Authors: Ziyu Tong, Yu Luo, Tan Wang, Juelun Zhou	
15:20-15:50	Coffee Break & Poster Exhibition	
15:50-16:10 (15+5)	Title: A multi-index approach for classification of urban land use intensity based on remote sensing Authors: Chenghan Xie, Angela Lausch	
16:10-16:30 (15+5)	Title: A Parametric Computer Experiment on Urban Form, Microclimate and Human Comfort in Downtown Atlanta Author: Steven Jige Quan	
16:30-16:50 (15+5)	Title: Data Protection Law and City Planning: Role of open data in climate resilience and governance of National Capital Territory of Delhi, India Author: Mahak Agrawal	
16:50-17:10 (15+5)	Title: Functional Recognition and Structural Optimization of Residential Areas Based on the Mobile Phone Traffic Big Data Authors: Yang Cao, Feng Zhen	

Poster Exhibition







Parallel Session 3: Geo-Spatial Information Science	
2019-07-10	14:00-18:00 Location: Meeting Room No.3 at fourth floor of Nanyuan Building
Chair: Prof.	Huayi Wu, Co-Chair: Prof. Weifeng Li
14:00-14:30 (25+5)	Title: Extracting News Location of Best Spatial Scale based on Toponymic Tree Invited Speaker: Prof. Huayi Wu, Wuhan University Authors: Huayi Wu, Shili Shu, Rui Li
14:30-14:50 (15+5)	Title: Bridging the information and physical space: Measuring flow from geo-located social media data on the street network Authors: Alireza Karduni, E. Sauda
14:50-15:10 (15+5)	Title: Comparing Smart Governance Projects in China: A Contextual Approach Authors: Huaxiong Jiang, Stan Geertman, Patrick Witte
15:10-15:30 (15+5)	Title: Analysis of Shopping Behavior Characteristics in the Keihanshin Metropolitan Area in Japan Based on a Person Trip Survey Authors: Takashi Yamada, Takumi Hayashida
15:30-16:00	Coffee Break & Poster Exhibition
16:00-16:20 (15+5)	Title: Can social media play a role in urban planning? A literature review Authors: Yanliu Lin, Stan Geertman
16:20-16:40 (15+5)	Title: Identifying changes in critical locations for transportation networks using centrality Authors: Nazli Yonca Aydin, Ylenia Casali, H. Sebnem Duzgun, Hans R. Heinimann
16:40-17:00 (15+5)	Title: A New Approach to Spatial Analysis with the Social Phenomenon – Colocation, from Social Media Data Authors: Yao Shen, Shi Zeng, Chen Zhong
17:00-17:20 (15+5)	Title: Road Network Structure and Ride-sharing Accessibility Authors: Mingshu Wang , Zheyan Chen
17:20-18:00	Poster Exhibition







Parallel Session 4: Cities	
2019-07-10	14:00-18:00 Location: Meeting Room No.4 at fourth floor of Nanyuan Building
Chair: Prof.	Christopher Pettit, Co-Chair: Prof. Andrew Allan
14:00-14:20 (15+5)	Title: Data for Informal Cities: Land Use Classification Using Twitter Data in Nairobi
(10.0)	Authors: Chen Zhong, Faith Taylor, Wei Tu, Yao Shen
14:20-14:40 (15+5)	Title: Online Transportation Data Based Clustering Analysis of Chinese Cities for Transportation-Economy Coordination
, ,	Authors: Huizi Zhang , Qingming Zhan, Yuli Fan, Yao Si
14:40-15:00 (15+5)	Title: Research on Risk Management and Control of Incidents in Xicheng District of Beijing Based on Big Data
(10.0)	Authors: Wei Huo, Yannan Chen
15:00-15:20	Title: Social Insurance Data-Based Research on Jobs-Housing Spatial Relationships and Commuting Features in Wuhan
(15+5)	Authors: Wen Liu , Qingming Zhan, Zhengdong Huang, Jun Zhou, Haiyan Zhou, Quanyi Liu
15:20-15:50	Coffee Break & Poster Exhibition
15:50-16:10	Title: The Spatial Distribution Characteristics and Influencing Factors of Convenience Stores in Wuhan Based on POI data
(15+5)	Authors: Kaiyuan Sun , Jin Zhang, Lian Chen, Lin Zhou, Zi Wang
16:10-16:30 (15+5)	Title: Evaluating the Walkability of Urban Sprawl Areas in the Future Using Scenario Planning: Smart Decline for Ibaraki City in the Northern Osaka Metropolitan Area
,	Authors: Haruka Kato , Kiyoko Kanki
16:30-16:50	Title: Development of Variables for Mode Choice Behavior Using Multinomial Logit Model; A Case Study in Lahore, Pakistan
(15+5)	Authors: Asna Ahmed , Yoshihide Sekimoto
16:50-17:10 (15+5)	Title: Evaluating Locational Preference of Activities with the Time/Mode- Dependent Accessibility Using Integrated Spatial Economic Models Authors: Asif Raza, Ming Zhong
17:10-18:00	Poster Exhibition







Parallel Sess	Parallel Session 5: Smart and Intelligent City	
2019-07-10	14:00-18:00 Location: Meeting Room No.5 at fourth floor of Nanyuan Building	
Chair: Prof.	Qingyun Du, Co-Chair: Prof. Ray Wyatt	
14:00-14:30 (25+5)	Title: Re-Construction of Spatial Computing Framework for Double Assessments Invited Speaker: Prof. Qingyun Du, Wuhan University	
14:30-14:50 (15+5)	Title: Pentagram Sustainability Model: Framing of a holistic sustainability dimension model for assessment of Neighbourhood level Urban Communities (NLUCs) using a semi-automated systematic literature review Authors: Sudeshna Kumar, Anirban Santara, Haimanti Banerji	
14:50-15:10 (15+5)	Title: A Planning Support Toolkit Authors: Richard Klosterman, Kerry Brooks	
15:10-15:30 (15+5)	Title: A Novel Urban Road Management System Based On Data Mining Author: Guanlin Chen	
15:30-16:00	Coffee Break & Poster Exhibition	
16:00-16:20 (15+5)	Title: Carbon Emission Intensities of Each Building Typology: Towards a Standardized Framework Authors: Takahiro Yoshida, Tobey Michael, Soowon Chang, Yoshiki Yamagata	
16:20-16:40 (15+5)	Title: Deep learning Model for Urban Land Use Classification using Call Det ail Records Authors: Hongzan Jiao, Zhihao Sun	
16:40-17:00 (15+5)	Title: Measuring and validating walkable environments using Google Street View and computer vision Authors: Subhrajit Guhathakurta, Bonwoo Koo, Nisha Botchwey	
17:00-17:20 (15+5)	Title: Using multi-agent simulation to predict natural crossing points for pedestrians and choose locations for mid-block crossings Authors: Sergei Kudinov, Egor Smirnov, Sergei Dunaenko	
17:20-18:00	Poster Exhibition	







Parallel sessions on the third conference day (Forenoon, 11 July)

Darallal Casa	sion 1: Smort City
Parallel Sess	sion 1: Smart City
2019-07-11	09:00-12:10 Location: Meeting Room No.1 at fourth floor of Nanyuan Building
Chair: Prof. 2	Zhixiang Fang, Co-Chair: Prof. Nelson Rodrigues da Silva
09:00-09:20 (15+5)	Title: Construction and Application of Diagnosis Index of Urban Grid Signs Based on Multi-source Data Authors: Yanwei Chai, Yibo Duanmu
09:20-09:40 (15+5)	Title: Utilisation of knee replacement in NSW, Australia: a population-based study Authors: Yingyu Feng, David John Hunter
09:40-10:00 (15+5)	Title: Urban systems design applicability case study: Applying Urban Systems Design Framework to North Sumida Ward Tokyo Authors: Michael B. Tobey, Robert B. Binder, Takahiro Yoshida, Yoshiki Yamagata
10:00-10:20 (15+5)	Title: Quality of Service Prediction Model for Signalized Intersections Based on Deep Learning Authors: Xinqi Yu, Inhi Kim
10:20-10:50	Coffee Break & Poster Exhibition
10:50-11:10 (15+5)	Title: Urban Systems Design Conceptual Framework: Modeling, Design, and Emergent Iterative Smart Communities Authors: Michael B. Tobey, Robert B. Binder, Soowon Chang, Takahiro Yoshida, Yoshiki Yamagata, Perry Yang
11:10-11:30 (15+5)	Title: A study on Spatial and Temporal Patterns of Travel Behavior of Urban Population in Wuhan City based on LBS and POI Data Authors: Yinghui Xiao, Peipei Shi, Qingming Zhan
11:30-11:50 (15+5)	Title: Conflict-Detecting and Early-Warning System for Multi-Plan Integration in Small Cities and Towns Based on Cloud Platform Author: Ningrui Du
11:50-12:10 (15+5)	Title: How Artificial Intelligence Makes Home Smart: Review on the Application of Artificial Intelligence in Smart Home Authors: Xiao Guo, Zhenjiang Shen, Yajing Zhang, Teng Wu
12:10-14:00	Lunch Break & Poster Exhibition







	Parallel Session 2: International Review for Spatial Planning and Sustainable Development	
2019-07-11	09:00-11:50 Location: Meeting Room No.2 at fourth floor of Nanyuan Building	
Chair: Prof.	Yan Ma, Co-Chair: Prof. Andrew Allan	
09:00-09:30 (25+5)	Title: Equity issues and the PeCUS index: an indirect analysis of community severance Invited Speaker: Prof. Nélson Rodrigues da Silva, University of Sao Paulo	
	Authors: Daniela Vanessa Rodriguez Lara, Antônio Nélson Rodrigues da Silva	
09:30-10:00 (15+5)	Title: Megaregion Truck Flow Estimation Model Invited Speaker: Prof. Qisheng Pan, Texas Southern University Authors: Qisheng Pan, Bumseok Chun, Zhonghua Jin	
10:00-10:20 (15+5)	Title: Public Bicycle Trips Differences among Land Use Authors: Qiang Liu, Riken Homma, Kazuhisa Iki	
10:20-10:50	Coffee Break & Poster Exhibition	
10:50-11:10 (15+5)	Title: Deep Learning Architect Authors: Yuji Yoshimura, Bill Cai, Zhoutong Wang, Carolo Ratti	
11:10-11:30 (15+5)	Title: Identification and Mapping of Urban Spatial Structure of Wuhan Yangtze River Main Axis Based on Spatial Coupling between Nighttime Light Data and POI Authors: Tongxi Gao, Chi Gao	
11:30-11:50 (15+5)	Title: Quantitative Space Development Choice Strategies: A Case Study of the PECAS Wuhan Demonstration Model Authors: Ming Zhong, Luoheng Zheng	
11:50-14:00	Lunch Break & Poster Exhibition	







Parallel Session 3: Geo-Spatial Information Science	
2019-07-11	09:00-12:10 Location: Meeting Room No.3 at fourth floor of Nanyuan Building
Chair: Prof. I	Huayi Wu, Co-Chair: Prof. Weifeng Li
09:00-09:20 (15+5)	Title: Quantitative Measurement, Analysis of Land Use Change through Spatio-Temporal Pattern and Modelling Authors: Chandan Gisnitk, Bharath Haridas Aithal
09:20-09:40 (15+5)	Title: Quantification of the openness of urban external space through urban section Authors: Huawu Yang, Liu Chen, Tingting Xu
09:40-10:00 (15+5)	Title: Research on Spatial Coupling Mechanism of Urban Road Traffic and Land Use Based on BP Neural Network Authors: Yu Wang, Jiangang Xu, Fei Shi
10:00-10:20 (15+5)	Title: A Preliminary Study on Visual Features of Urban Street Vitality Using a Convolutional Neural Network Authors: Yi Qi, Suonanquzhenzhuoma, Xiang Zhang, Jing Liang, Haibing Jiang, Jiangang Xu, Tianhua Ni
10:20-10:50	Coffee Break & Poster Exhibition
10:50-11:10 (15+5)	Title: UHIADSS: An application framework of urban heat island analysis and decision support system Authors: Wei Wang, Di Wang
11:10-11:30 (15+5)	Title: Geo-Spatiality of Urban Museums: Social, Cultural and Political Implications Authors: Jing Ying, Yaolin Liu
11:30-11:50 (15+5)	Title: Analyzing the Spatial and Temporal Variation of the Potential Hotspots in Wuhan from a Local Scale Authors: Chen Yang, Qingming Zhan, Huimin Liu
11:50-12:10 (15+5)	Title: Monitoring and analyzing impervious surfaces based on geographical conditions: a case study in Wuhan, China Authors: Minghai Luo, Jiangping Chen, Bo Tan, Qi Cheng, Minghua Fu
12:10-14:00	Lunch Break & Poster Exhibition







Parallel Sess	Parallel Session 4: Cities	
2019-07-11	09:00-12:10 Location: Meeting Room No.4 at fourth floor of Nanyuan Building	
Chair: Prof. 2	Zhengdong Huang, Co-Chair: Prof. Ray Wyatt	
09:00-09:20 (15+5)	Title: Sejong Smart City: on the Road to be a City of the Future Author: Hoon Han	
09:20-09:40 (15+5)	Title: Impact of the mosque on the urban space Author: Mohamed El Boujjoufi	
09:40-10:00 (15+5)	Title: How Location Affects Innovation: Incubators, Accelerators, and Coworking Spaces' Spatial Distribution in San Francisco Authors: Zhuangyuan Fan, Yonghui Chen, Tianyu Su	
10:00-10:20 (15+5)	Title: Evaluation of Mobile-based Public Participation in China's Urban Planning – A Case Study of PinStreet Program Authors: Xuan Wang, Xiaoyi Yao, Yulin Chen, Zhiyuan Han, Peiqin Gu	
10:20-10:50	Coffee Break & Poster Exhibition	
10:50-11:10 (15+5)	Title: Research and Implementation of Data-driven Planning and Quantitative Analysis Platform Framework Authors: Xiao Wu, Lei Wang, Bo Zhou, Mei Tang, Zhigao Chen, Jinbang Liu	
11:10-11:30 (15+5)	Title: An Open-source Tool for School Catchment Planning Authors: Yiqun Chen, Soheil Sabri, Abbas Rajabifard, Julian Szafraniec	
11:30-11:50 (15+5)	Title: Evaluating personal spatial exposure of greenness based using wearable camera Authors: Zhaoxi Zhang, Ying Long	
11:50-12:10 (15+5)	Title: Using Luojia Nighttime Image and DiDi Data to Identify the Structure of Polycentric Urban Regions in China Authors: Kang Wu, Xiaonan Wang	
12:10-14:00	Lunch Break & Poster Exhibition	







Parallel Sess	Parallel Session 5: Environment and Planning B	
2019-07-11	09:00-12:00 Location: Meeting Room No.5 at fourth floor of Nanyuan Building	
Chair: Prof.	Stan Geertman, Co-Chair: Prof. Brian Deal	
09:00-09:30 (25+5)	Title: Data-driven Campus Design Support System Invited Speaker: Prof. Perry Pei-Ju Yang, Georgia Institute of Technology Authors: Perry Pei-Ju Yang, Helen W. Chen, Soowon Chang, Nirvik Saha	
09:30-10:00 (15+5)	Title: Adapting open-source technology for use in local planning: A case study in Stockholm County, Sweden Author: Jessica Page	
10:00-10:20 (15+5)	Title: Urban analytics in the era of shared mobility and big data: experience from Seattle's new mobility service experiment Authors: Yiyuan Wang, Qing Shen, Feiyang Sun, Jan Whittington, Casey Gifford	
10:20-10:40 (15+5)	Coffee Break & Poster Exhibition	
10:40-11:00 (15+5)	Title: Urban Modelling focusing on streets: Opportunities and Progresses Authors: Ying Long, Guowei Lyu	
11:00-11:20 (15+5)	Title: Revisiting Kevin Lynch: Analysis of urban perception by deep convolutional neural network Authors: Yuji Yoshimura, Ian Seiferling, Ruixian Ma, Fabio Duarte, Carlo Ratti, Zhoutong Wang, Gary Hack	
11:20-11:40 (15+5)	Title: Understanding commuting changes as a science of planning: A collaborative use of mobile phone data and planning-support model Authors: Tianren Yang, Ying Jin, Zhenxuan Yin, De Wang	
11:40-12:00 (15+5)	Title: Does the PSS Discourse Have Something to Offer to the Smart Governance Debate? Authors: Huaxiong Jiang, Stan Geertman, Patrick Witte	
12:00-14:00	Lunch Break & Poster Exhibition	







Parallel sessions on the third conference day (Afternoon, 11 July)

Parallel Ses	Parallel Session 1: Smart City	
2019-07-11	14:00-18:00 Location: Meeting Room No.1 at fourth floor of Nanyuan Building	
Chair: Prof.	. Zhixiang Fang, Co-Chair: Prof. Ray Wyatt	
14:00-14:20 (15+5)	Title: A framework for the design and evaluation of effective participatory urban data platforms - twelve key components Authors: Oliver Lock, Simone Leao, Tomasz Bednarz, Chris Pettit	
14:20-14:40 (15+5)	Title: West Lake Tourist: Spatio-Temporal Visualization and Visual Analysis Based on Taxi Data Authors: Yunliang Jiang, Junjie Cao, Yong Liu, Jing Fan	
14:40-15:00 (15+5)	Title: Opportunities and Challenges for the Construction of a Digital City Geospatial Framework in a Small Urban Area in Central China Authors: Huini Wang, Ming Zhang, Ming Zhong	
15:00-15:30	Coffee Break & Poster Exhibition	
15:30-15:50 (15+5)	Title: Integration of microclimate into the multi-agent system simulation in urban open space Authors: Tingting Xu, Ziyu Tong, Yu Luo, Huawu Yang	
15:50-16:10 (15+5)	Title: Application of Deep Learning to Transport Predicting: A Systematic Literature Review Authors: Xinqi Yu, Inhi Kim	
16:10-16:30 (15+5)	Title: Population Spatio-temporal Aggregation Pattern of Small City: A Case Study on Shehong County Based on Baidu Heat Map Authors: Deyi Feng, Lingli Tu, Zhongwei Sun	
16:30-16:50 (15+5)	Title: Understanding the Modifiable Areal Unit Problem on Employment Self- containment and Jobs-housing Balance Using Big Data Authors: Xingang Zhou, Anthony G. O. Yeh	
16:50-17:10 (15+5)	Title: Design of Remote Expert Evaluation System in Remote Mountainous Area Based on Cloud Service Platform Authors: Zhuo Yu, Wenjuan Cheng, Li Lin	
17:10-18:00	Poster Exhibition	







	Parallel Session 2: International Review for Spatial Planning and Sustainable Development	
2019-07-11	14:00-18:00 Location: Meeting Room No.2 at fourth floor of Nanyuan Building	
Chair: Prof	. Miaoyi Li, Co-Chair: Prof. Yan Ma	
14:00-14:20 (15+5)	Title: Planning for safer road facilities for bicycle users at junctions Authors: Li Meng , Li Luo, Yanchi Chen, Branko Stazic	
14:20-14:40 (15+5)	Title: Unpacking a Geospatial Model for Rurban Planning: Inputs from Computer Science Authors: Arpita Banerjee, Aayan Kumar, Mahavir, Kusum Lata	
14:40-15:00 (15+5)	Title: Uncovering Social Class from Building Footprints: A Case Study of Residential Areas in Massachusetts using Computer Vision Authors: Zhoutong Wang, Qianhui Liang	
15:00-15:20 (15+5)	Title: Visual Communication and the Mediatized City: From Street Billboards to Offices of Urban Planning in Cairo Author: Mennatullah Hendawy	
15:20-15:50	Coffee Break & Poster Exhibition	
15:50-16:10 (15+5)	Title: Mapping Urban Farming in Chinese Cities: Depicting a social phenomenon via on-line news Author: Longfeng Wu	
16:10-16:30 (15+5)	Title: Quantitative Research on Urban Space Publicity with Urban Network AnalysisTake Nanjing As A Case Authors: Chen Liu, Ziyu Tong, Chuanjia Gong, Huawu Yang	
16:30-16:50 (15+5)	Title: How do pedestrian choose their routes? Predict the pedestrian route choice pattern round Redline Central Station, Cambridge, MA Authors: Longfeng Wu, Yonghui Chen, Seung Kyum Kim, Jung Hyun Woo	
16:50-17:10 (15+5)	Title: Summary of the Construction and Application of Qingdao Multi-Plan Integration and Spatial Planning Information Platform Authors: Zhongyuan Sun, Qing Han, Chengmiao Sun, Yang Li, Huiling Lu	
17:10-17:30 (15+5)	Title: An Approach to Individual Public Transport Passenger Trip Destination Estimation Using Smart Card Data Authors: Mona Mosallanejad, Sekhar Somenahalli, David Mills Speaker: Li Meng	
17:30-17:50 (15+5)	Title: Quantitative Analysis of the Interactions between Urban Spatial Structure and Air Quality Authors: Liyuan Zhao, Fatang Liu, Zhongren Peng	
17:50-18:00	Poster Exhibition	







Parallel Ses	Parallel Session 3: Geo-Spatial Information Science	
2019-07-11	14:00-18:00 Location: Meeting Room No.3 at fourth floor of Nanyuan Building	
Chair: Prof	. Weifeng Li, Co-Chair: Prof. Andrew Allan	
14:00-14:30	Title: Commuting Modal Shift and Its Potential for Sustainable Transport: The Case Study of Adelaide	
(25+5)	Invited Speaker: Prof. Andrew Allan, University of South Australia	
	Authors: Ali Soltani, Andrew Allan, H.A. Nguyen	
14:30-14:50	Title: Spatial Analysis of Real Estate Registration in A Big Data Perspective	
(15+5)	Authors: Tao Nie , Xin Huang, Shiwei Shao, Hui Liu	
14:50-15:10 (15+5)	Title: How to Make Dockless Bikeshare Good for Cities: Curbing Oversupplied Bikes	
(15+5)	Authors: Yuanjie Tu , Peng Chen, Jiawen Yang	
15:10-15:30 (15+5)	Title: Construction and Application of "3S" Model for Demarcation of Urban Development Boundary	
(13+3)	Authors: Ying Zheng , Xiang Zhang, Jiangang Xu	
15:30-16:00	Coffee Break & Poster Exhibition	
16:00-16:20	Title: A Grid-Based Method to Understand the Influence of Spatial Factors on Pedestrian Fatalities: A Case Study of Curitiba, Brazil	
(15+5)	Authors: Cassiano Bastos Moroz, Jorge Tiago Bastos	
16:20-16:40	Title: Virtual activity and physical mobility: an exploratory investigation	
(15+5)	Authors: Licaiqi Zhu , Longxu Yan, De Wang	
16:40-17:00	Title: The Spherical Panorama Epipolar Geometry Used in 3D modelling	
(15+5)	Authors: Shuai Liu , Lingli Zhao, Xiang Wei	
17:00-17:20 (15+5)	Title: Delineation of Melbourne Global City Region's Boundary and the Implications to Wuhan City Circle Development	
()	Authors: Haijuan Zhao , Sunsheng Han, Liang Hu	
17:20-17:40 (15+5)	Title: Research on Evolution and Characteristics of Commercial Facilities in Wuhan Based on Big Data	
	Authors: Yilin Chen , Xuanxuan Xu, Jiahuan Qian	
17:40-18:00	Poster Exhibition	







Parallel Session 4: Cities	
2019-07-11	14:00-18:00 Location: Meeting Room No.4 at fourth floor of Nanyuan Building
Chair: Prof	. Nelson Rodrigues da Silva, Co-Chair: Prof. Qingming Zhan
14:00-14:20 (15+5)	Title: Design for Social Capital: Improve Community Welfare for Left-behind Children in Rural China Authors: Siqing Chen, Yang Li
14:20-14:40 (15+5)	Title: Quantifying the Pedestrian Distribution of Special Events based on Pedestrian Count Data Authors: Sunyong Eom, Yasuhide Nishihori
14:40-15:00 (15+5)	Title: Discerning spatial-temporal differentiation of daily activities among different social groups by combining cell phone data and survey data Authors: Junwen Lu, Suhong Zhou
15:00-15:30	Coffee Break & Poster Exhibition
15:30-15:50 (15+5)	Title: Spatial arrangement of the quantity and diversity of basic urban public facilities—a case study of Wuhan by using POI data Authors: Helin Liu, Tianming Zheng, Jun Wang
15:50-16:10 (15+5)	Title: Research on the Accessibility of Educational Facilities in the Central Urban Area of Laibin Based on the New Standard of Urban Residential District Planning and Design – A Perspective of Big Data and Network Analysis
	Authors: Xiaoting Yang , Jiao Liu, Wenjun Wei, Jinping Zhang
16:10-16:30 (15+5)	Title: Evaluation of Leisure and Sports Facilities Service Level in Suzhou City Based on Transportation Network Author: Jun Zhang
16:30-16:50 (15+5)	Title: Optimizing and rebalancing heat-related utility assistance provider- client system of the Salvation Army in Phoenix, Arizona Authors: Qunshan Zhao, Chelsea Dickson, Jowan Thornton, Chuyuan Wang, Patricia Solis, Elizabeth Wentz
16:50-17:10 (15+5)	Title: Computational urban transport performance monitoring - visualisation of high-volume, longitudinal transport sensor data with rapid 3D web graphics libraries Authors: Oliver Lock, Tomasz Bednarz, Chris Pettit
17:10-18:00	Poster Exhibition







Parallel Session 5: Environment and Planning B					
2019-07-11	14:00-18:20 Location: Meeting Room No.5 at Fourth Floor of Nanyuan Building				
Chair: Prof	Chair: Prof. Stan Geertman, Co-Chair: Prof. Haozhi Pan				
14:00-14:30 (25+5)	Title: Predicting plans' popularity to facilitate sensitive management of the rural-urban fringe Invited Speaker: Prof. Ray Wyatt, University of Melbourne				
	Title: A Rapid Analytics Scenario Planning Tool				
14:30-15:00	Invited Speaker: Prof. Christopher Pettit, University of New South Wales				
(25+5)	Authors: Christopher Pettit, Vivien Shi, Markus Rittenbruch, Marcus Foth, Hoon Han, Scott Lieske, Ryan van de Nouwelant, Carmela Ticzon, Peta Mitchell, Aida Afrooz, Simone Zarpelon Leao, Bryce Christensen, Murad Jamal				
15:00-15:30	Title: A Comparison of Statistical and Machine Learning Algorithms for Predicting Rents in the San Francisco Bay Area				
(25+5)	Invited Speaker: Prof. Paul Waddell, University of California Bekerley				
15:30-15:50	Title: A microsimulation framework to evaluate the impact of car-lite policies on household vehicle availability				
(15+5)	Authors: Rounaq Basu, Joseph Ferreira				
15:50-16:10 Title: Spatial Dynamic Modeling for Urban Planning of Nanjing,					
(15+5)	Authors: Zipan Cai , Vladimir Cvetkovic				
16:10-16:40	Coffee Break & Poster Exhibition				
16:40-17:00 (15+5)	Title: Social Media as Planning Supports for Collaborative Planning Authors: Yanliu Lin				
17:00-17:20	Title: An Agent-based Model for Allocations of Renewable Energy Sources in Urban Area				
(15+5)	Authors: Qi Han , B. de Vries, B. Glumac				
17:20-17:40	Title: Assessment of landscape changes under different urban dynamics based on a multiple-scenario modeling approach				
(15+5)	Authors: Chao Xu, Dagmar Haase, Meirong Su, Yutao Wang , Stephan Pauleit				
17:40-18:00 (15+5)	Title: An Urban Informatics Approach to Understanding Residential Mobility in Metro Chicago				
(1010)	Authors: Haozhi Pan , Yizhao Gao, Si Chen, Brian Deal				
18:00-18:20 (15+5)	Title: A multi-objective optimization model of urban design for facilitating air pollution removal and thermal comfort				
(10.0)	Authors: Yihan Wu , Qingming Zhan				







Schedule of Poster Exhibitions

Poster exhibition on first conference day (9 July)

No	ID	Title	Author
1	799353	Geographical generalisation of convolutional	Stephen Law, Shen Yao
		neural networks	
2	799249	A Compact City for the Wealthy?	Duncan Smith
		Gentrification and Employment Accessibility	
		Inequalities in the London Metropolitan	
		Region	
3	799143	Suburbanisation controls: Case Study of	Ahmed Mustafa, Jacques
		Wallonia, Belgium	Teller
4	799133	Spatial differences of residents' tourism	Yuan Li, Xiaohan Gao
		perceptions in World Heritage site based on	
		SEM—— a case study of Kulangsu, China	
5	799119	Indicator Framework for the Assessment of	Jingxia Wang
		Multifunctional Green Infrastructure (AMGI)	
		Exemplified in an European City	
6	799113	The Urbanization of Abu Dhabi City through	Rim Meziani, Wided Batita
		time Towards a Smart City	
7	799103	Use of Common Areas and Their	Soumi Muhuri,
		Association with the Physical Environment in	Sanghamitra Basu
		a High-Rise Housing	
8	799091	Quantifying natural hazards' perturbation on	Ruoxi Wang, Yan Wang,
		human mobility for returners and explorers:	Nan Li, Jing Li
		A case study of Typhoon Mangkhut	
9	799083	Urban network externalities and economic	Yin Huang
		growth	
10	799075	A Pedestrian Network Analysis Considering	Wonjun No, David Lee
		Crosswalk Delay: A Case Study for	
		Elementary School Commute in Songpa-gu,	
		Seoul	







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11	799071	Temporal and spatial variation of ecosystem	Yue Sun, Tianyu Zhao
		capacity spatial pattern in rural region under	
		township scale	
12	799059	Quantification of sunshine duration in street	Chuanjia Gong, Ziyu Tong,
		space based on street view	Chen Liu
13	799049	Research on spatial position accuracy of	Qiaoyang Zhang, Wei Zhu,
		mobile phone signaling data	Jiazhi Yang
14	799021	Dimensions of Child Health-oriented	Yu Pei, Anrong Dang
		Community Design: Dongcheng District of	
		Beijing as an Example	
15	799019	Methodological Exploration of Urban	Boshu Cui, Teng Wang,
		Intelligence Planning	Mingrui Mao
16	799013	Influencing Factors of Pedestrians' Travel	Yucheng Zhang, Yu Wang,
		Mode Around Metro Station: A Case Study of	Yannan Liu, Jie He
		Yingkoudao Metro Station in Tianjin	
17	799011	Optimum Locational Patterns of Regional	Ryo Shimaura, Eiji Satoh,
		Hubs by Minimizing Travel Time with Public	Tatsuya Suzuki,
		Transport Usage	Yasuhiro Nohara
18	799003	Analysis on Spatiotemporal Characteristics	Wei Xue, Qingming Zhan,
		of Hourly PM2.5 Observations in Xiangyang,	Jiaqi Wu, Zhonghua Wu
		China	
19	798997	Flood management method for underground	Eizo Hideshima
		facilities using construction information	
		modeling	
20	798987	Analyzing the Cooling Effect of Cold Air	Kaoru Matsuo, Osaka
		Drainage from the Mountains on the Urban	Prefecture University
		Area in Summer Night: For Making Urban	
		Planning With Local Climate	
21	798982	The spatiotemporal non-stationarity of the	Sihang Gao, Qingming
		relationship between land cover and surface	Zhan, Huimin Liu, Chen
		temperature of urban heat island in multiple	Yang
		time series	
22	798979	A comparison of statistical and machine	Paul Waddell, Arezoo







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			learning algorithms for predicting rents in the	Besharati-zadeh
			San Francisco Bay Area	
	23	798967	Housing stock transition model for urban microsimulation	Yusuke Murata, Nao Sugiki, Kojiro Matsu
	24	798951	A Spatial Equilibrium Model for Home-work Separation in Megacity: A Case Study in Beijing	Zijun Xu, Yuhao Kang, Teng Fei
	25	798947	Study on the Spatial Distribution Fairness of Parks in Guangzhou City	Ye Wang, Dailin Zhou, Siqi Dai
	26	798945	Evaluation of sustainability for regeneration of old housing complex with household based urban micro-simulation model	Atsushi Suzuki, Suguru Hiranuma
	27	798931	Revealing the uncertainty of road usage from perspective of vehicle velocity	Jianwei Huang, Pengxiang Zhao, Junwei Zhang
	28	798923	City planning and Web-based Technologies: Misalignments, Convergences and Potential Future Directions	Lucia Lupi, Alessio Antonini
	29	798919	A Study on Farmland Change with Flood Disaster Mitigation	Kojiro Watanabe
	30	798917	Evolution Analysis of Historic Urban Landscape Elements Based on Genetic Algorithms: A Case Study of Changting, Fujian Province	Jiangang Xu, Chenkun Zheng, Min Yin, Jiweng Tang
	31	798907	Assessing urban landscape using Sentinel- 2A images and Baidu street View	Ye Wang, Dailin Zhou
	32	798903	Pedestrian Walkway Evaluation by VR Tool in Bangkok	Varameth Vichiensan, Sathita Malaitham, Kazuki Nakamura, Kazuaki Miyamoto
	33	798901	The Characteristics of Main Built-up Areas in Small and Medium-sized Cities in Shaanxi Province	Haizhao Hao, Xiaojian Chen
	34	798895	Optimization of Regulation Zones in	Yasmin Bhattacharya,







CUPUM			
		Tsunami-prone Areas with Consideration of	Chaitanya Gadagamma,
		Short- and Long-term Impacts	Takaaki Kato
3	798893	The Impact of Autonomous Vehicles on	Peng Wang, Mengyi Sun,
		Cities: Analysis Based on The Development	Cheng Lei
		Vision of Sharing Mode	
30	798889	Detecting, Modelling and Predicting Vertical	Yuanyuan Huang, Yan Liu,
		Urban Growth: A Systematic Review	Scott Lieske
37	7 798875	The relationship between visual enclosure	Ye Liu, Ruoyu Wang, Yi Lu,
		for neighborhood street walkability and	Penghua Liu, Yao Yao
		elders' mental health in China: Using street	
		view images	
38	798871	Do different mobility datasets reveal a	Shanqi Zhang, Feng Zhen,
		similar city structure?	Yu Yang
39	797947	City Diagnosis with the City Intelligence	Xingang Zhou
		Quotient (CITY Q) Evaluation System	
4(798857	A Study on Types of Settlements from the	Nozomi Kuzuhara, Eiji
		Viewpoint of Population Dynamics	Satoh
4	1 798841	Quantitative assessment and improvement	Yuan Li, Zeyang Wang,
		of water security in World Heritage sites——	Jun Yang
		Case Study of Kulangsu, China	
42	798837	Evaluation and Analysis of Resources and	Yuan Li, Zexing Yan
		Environment Carrying Capacity Based on	
		Remote Sensing Technology: A Case Study	
		of Xiamen	
43	798831	Residential Satisfaction in Relation to	Shuhei Oya, Kazuki
		Walkability for QOL Outcomes	Nakamura
44	4 798815	Exploring Association between Urban Form	Lan Wang, Kaichen Zhou
		and Cycling from the Perspective of Space	
		Syntax: An Empirical Research of Yangpu	
		District of Shanghai	







Poster exhibition on second conference day (10 July)

No.	ID	Title	Author
1	798813	Initial household micro-data estimation system using mesh-based open-data	Nao Sugiki, Shogo Nagao, Kojiro Matsuo
2	798801	A Quantitative Method of Urban Form: Spatial Frequency Analysis	Yi Zhang, Pei Zhang, Xiaoli Yang
3	798799	Construction and Exploration of Public Planning Platform "Zhonggui Wuhan"	Zhou Bo, Wei Xiong, Yao Zhang
4	798773	Assessment of Solar Road Capacity to Power Electronic Vehicles – A New Method to Calculate Road Solar Radiation with Street View	Ziyu Liu, Anqi Yang, Mengyao Gao, Hong Jiang, Yuhao Kang, Teng Fei
5	798771	The Relationship between Commercial Agglomeration and Road Structure Based on Space Syntax	Qing Zhai
6	798767	Study on the geographical factors of building damages caused by the heavy rain event of July 2018Case study of Kure, Hiroshima prefecture-	Taikioryoji, Hisanoriyagi, Shotatamura, Takahirotanaka
7	798737	Hierarchical Structural Analysis of Urban Population in Hinterland Areas of Chinese Cities	Yuemeng Zhang, Qingming Zhan, Yuli Fan
8	798731	Spatial-temporal patterns of urban vitality: Analysis from mobile phone data	Zhong Zheng, Suhong Zhou, Xingdong Peng, Huiming Huang
9	798711	Research on urban spatial structure optimization analysis system based on nonlinear Lowry model	Binxue Zhou, Jinshe Liang, Teqi Dai, Hua Zhang
10	798699	A study of childcare service combination of provincial cities where the number of children is decreasing	Yuki Nakai, Nozomi Kuzuhara, Eiji Satoh
11	798671	Walkability Evaluation with VR for International Street Boundary-Space Design	Kenji Morita, Kazuki Nakamura, Varameth Vichiensan
12	798651	Research on the development situation of Day Service after School in provincial city	Rina Suzuki, Eiji Satoh, Mayumi Hsegawa, Masayoshi Koga, SatokoShiraishi, Fumiko Sakamoto







CUPUM			
13	798649	A study on the trend of setting the facility with nursing and medical in Japan according to the provision of medical and nursing care services	Misaki Sato, Eiji Satoh
14	798647	Evaluation of Urban Public Space Vitality Based on Big Data: A Case Study of Shanghai Waterfront public space	Siqi Lai, Song Liu
18	798641	Spatial explicit management for the water sustainability	Xiyin Zhou
16	798639	Rethink on the Development of Guangzhou-Foshan Metropolitan Area from the Perspective of Guangdong-Hong Kong- Macao Greater Bay Area Based on GIS & Big Data Analysis	Jiaxin Gu, Xiaoxuan Cen, Yijie Huang, Chengfang Wang, Yun Zhuang
17	798631	The division of jobs-housing connection units in central of Wuhan based on Community Detection Algorithm	Qiang Niu, Xuerui Niu, Yongxiong Zhang, Lixian Huang, Jindian Yang, Anyi Li
18	798629	Research On The Spatial Characteristics Of Wuhan Metropolitan Area Based On Urban Connectivity	Qingming Zhan, Yushan Wang
19	798627	Designing Support of Island-type Tourism Resort Center Based on Artificial Intelligence Technology	Yifei Lin, Miaoyi Li, Zhenjiang Shen
20	798615	A Study of Freight Connectivity, Impedance and Distribution Pattern of Inland Water Transport along Yangtze River Economic Belt using Ship Visa and AIS Big Data	Guihua Deng, Ming Zhong, John Douglas Hunt, Yiming Zhang
21	798609	Urban Spatial Structure and Population Flow analysis in Hubei Province: based on position data and online traffic data	Zihao Mi, Qingming Zhan, Yuliu Fan, Kun Xiao
22	798539	Understanding geodesign through past practice: 50 years of urban and landscape design in Noosa, Queensland, Australia	Scott Lieske, Jeffrey Hamerlilnck
23	798531	Simulation on Urban Form and Land Use Change Using WUDAPT-CA Method - A Case Study of Dongguan City	Feihao Chen
24	798515	Big Data Analysis of Sports Behavior and Built Environment ——An Empirical study in Beijing	Xie Pan
2	798483	Refined Feasibility Prediction on Urban	Huiyan Chen, Yuheng Cai,







CUPUM			
		Land Development: A Case Study on Liangjiang New Area	Nawei Wu, Qiao Chu, Yuqing Liu, Jiayi Liu, Xie Pan, Rongjun Zeng
2	798481	Refined Feasibility Prediction on Urban Land Development: A Case Study on Liangjiang New Area	Yuheng Cai, Huiyan Chen, Nawei Wu, Qiao Chu, Yuqing Liu, Jiayi Liu, Pan Xie, Rongjun Zeng
2	798473	Pedestrian Choice Simulation of Commercial Square Based on Big Data of Consumers' feedback	Haitao Lian, Yujiao Huo, Zhenbao Wang
2	798469	The Impact of Autonomous Driving on City: A Literature Review	Lingli Tu, Zhongwei Sun, Deyi Feng
2	798443	Exploring city-informative scenes and objects using street view images	Fan Zhang, Wenzhe Peng, Carlo Ratti
3	798377	Daily Activity-Pattern Recognition Model: A Case Study of Wuhan, China	Yunes Almansoub
3	798333	Improvement of Students' Small-Scale Spatial Cognition by Microsoft Hololens	Ningjun Tang, Zhenjiang Shen, Yan Ma
3	798317	Analysis for a Relationship between Risk of Burglary and Urban Space Composition: Case Study Focusing on 23 Wards and Urban Area of Tokyo	Tomoki Ishii, Tatsuya Kishimoto
3	798303	The Optimization of Geographic Recognition Method of High - Definition Remote Sensing Image Based on Deep Learning	Fang Xu
3	798293	Estimation of Pedestrian Density and Speed on Street Network Using Smartphone Spatio-Temporal Data	Koki Shimizu, Hiroaki Nishi, Tatsuya Kishimoto
3	798287	The study of the Wind Environment in the Old City Reconstruction, In the case of Pozi Street in Changsha	Junpeng Wu, Fang Zou
3	798263	Impacts of Three-Dimensional Urban Spatial Patterns on Urban Thermal Environment in Hangzhou, China	Weiwei Sun, Fei Li, Huimin Lu, Gang Yang
3	798255	Urban Form Study for Wind Potential Evaluation in Beijing	Biao Wang, Shuai Sun, Sandrine Geoffory
3	798249	Functional visibility graph analysis with spatial network and social media data	Yao Shen, Stephen Law







798247	Measuring traveling exposure with a flow- based spatial interaction model	Yao Shen, Shi Zeng, Chen Zhong
798237	Boundary Identification Method for Core Area of Changsha-Zhuzhou-Xiangtan Urban Agglomeration Based on Spatial Syntax theory	Chaokui Li, Kaihua Wu
798235	Walkability condition for pedestrians' route choice: a study based on the questionnaire survey of choice behaviors and preferences to transit station	Wataru Kosako, Tatsuya Kishimoto
798227	Modelling pedestrian preferences of crossing facilities from face-to-face interview	Monalisa Patra, Perumal Vedagiri, K. V. Krishna Rao
798217	Long-term Management System for Multiple Bridges Considering Road User Cost	Hidetoshi Tanida, Masashi Okushima
798225	Spatial Configuration and Density: How Building Density Affects Spatial Arrangement of Different Neighborhoods?	Sahar Soltani, Ning Gu, Jorge Ochoa, Alpana Sivam, Tim McGinley, Xuyang Sun
	798237 798235 798227 798217	Boundary Identification Method for Core Area of Changsha-Zhuzhou-Xiangtan Urban Agglomeration Based on Spatial Syntax theory 798235 Walkability condition for pedestrians' route choice: a study based on the questionnaire survey of choice behaviors and preferences to transit station 798227 Modelling pedestrian preferences of crossing facilities from face-to-face interview 798217 Long-term Management System for Multiple Bridges Considering Road User Cost 798225 Spatial Configuration and Density: How Building Density Affects Spatial

Poster exhibition on third conference day (11 July)

No.	ID	Title	Author
1	798199	An empirical study on travel demand	Kai Liu, Zhiju Chen, Xinchao
		spatiotemporal patterns of dynamic	Peng
		internet-based ride-hailing	
2	798191	Multi-source Data Based TOD Monitoring	Jian Zhai
		and Evaluation System Research	
3	798189	Research on Quantitative Assessment	Jian Zhai
		Method of Urban Community Vitality	
4	798187	Research on Vulnerability Assessment of	Junkai Fan, Jiangang Xu,
		Urban Agglomeration Development from	Yihuan Zhou
		the Perspective of Complex System: A	
		Case Study of the Urban Agglomeration	
		in Central Yunnan	
5	798185	Data Driven Exploration of Detailed-	Jian Zhai







CUPUM				
			oriented Evaluation Method	
	6	798179	ResConstruction Suitability Evaluation of	Junkai Fan, Hong Hu,
			Sponge City Based on Its Comprehensive	Jiangang Xu
			Bene-fits: A Case of Changting, China	
	7	798167	Research on Distributed Computing	Han Xu, Jingjiao Chen, Xiang
			Model and Technology Implementation of	Zhang, Jiangang Xu
			Watershed Outlet Runoff in Sponge City	
			Planning	
	8	798161	The Inter-generational Effects of Job-	Xuemei Liang, Wei Zhu, Zhao
			housing Relationship Optimization based	Gui, Yongheng Feng, Jia Yan,
			on Excess Commuting: A Case Study of	Yan Zhang, Nan Zhang
			Beijing and Shanghai	
	9	798157	Construction and Application of 3S Model	Ying Zheng, Xiang Zhang,
			for Demarcation of Urban Development	Jiangang Xu
			Boundary	
	10	798147	The Factors influencing School Children's	Baoxin Zhai, Wei Zhu
			Physical Activities: A Multi-Stage Decision	
			Interpretation	
,	11	798131	New Technology of Culture Heritage	Xue Wang, Zhiqing Zhao,
			Conservation Planning Based on UAV	Weiguang Li, Yao Wang
			Tilted Photogrammetry Technology	
	12	798095	Understanding the Usage of Bike Sharing	Xiao Qin, Feng Zhen
			and Its Determinants in China: A Case	
			Study of Nanjing	
	13	798061	Research on Land Use Evaluation of	Shuhong Zhou
			Villages and Towns Based on Matter	
			Element Model: Taking Yongchuan	
			District of Chongqing as an example	
	14	797973	Study on the impact of road pricing policy	Haixiao Pan, Yi Cui
			on traffic emissions based on	
			microsimulation	
	15	797965	Technology contributions to a conceptual	Inaian Pignatti Teixeira,







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				Silva,
	16	797963	Construction and Exploration of " Public	Bo Zhou, Wei Xiong, Yao
			planning Wuhan" Platform	Zhang
	17	797961	Research on a Watermarking Algorithm	Xiao Wang, Jiangang Xu,
			for Remote Sensing Images Resist	Yiming Yin
			Screen Capture Attacks in Urban	
			Planning Information Management	
	18	798869	How Regional Accessibility Influences	Zhou Sun, Yinghui Xiao,
			Tourist Attraction – Case Study of	Qingming Zhan, Yuli Fan
			Huangshan, China	
	19	797943	Construction and Application Research of	Jidong Liu
			Economic Evaluation System Model in	
			Urban Renewal Project——Taking Zhuhai	
			City Urban Renewal Application as an	
			Example	
	20	797941	Evaluation method for rationality of public	Jidong Liu
			toilet layout based on big data	
	21	797903	The Smart Urban Land & Property Index	Eric Nyembezi Makoni,
			(SULPi) as a Planning Support Systems	Baleseng TlholoheloMokoena,
			to foster Local Economic Development in	Thembani Moyo, Rebone
			South Africa	Tshesane
	22	797891	Mapping urban network through inter-firm	Zherui Li
			investment relationship—a case study of	
			Yangtze River Delta	
	23	797865	Research on Web Celebrity Urban	Xiang Jin
			Development Based on Weibo Data A	
			Case Study of Xi 'An	
	24	797843	A Study on Restructuring Method of	Yohei Toyama, Eiji Satoh
			Traffic based on Traffic Estimation in	
			Provincial Cities: a case of Sakura city in	
			Tochigi, Japan	
	25	797817	Investigating the impacts of Three-	Weiwei Sun, Fei Li, Huimin
			Dimensional Urban Spatial Patterns on	Lu, GangYang







	Urban Thermal Environment in	
	Hangzhou, China	
6 797777	Identification and extraction of "ghost	Shuai Liu, Jiansi Yang,
	town" in urban area	Mingsheng Liao, Yandong
		Wang
7 797775	The Research on Distribution of Urban	Haiyun Jian, Junxia Shen,
	Residential Space Value in Kunming	Yingbin Li
	under the Mode of EOD —— Based on	
	the Big Data of Housing Price	
8 797735	The Impact Analysis of China's PPP	Xiaolu Dou, Lin Sen, Pengkun
	•	Huang
	•	
9 797703	A Responsive Landscape Design Process	Chris Landau, Nick Mitchell,
		Zhuangyuan Fan
o 797665	•	Yan Ma, Feng Xue
	·	
1 797645	•	Ming Zhang
	· ·	
2 797639		Zhangchun Ming
	3 1 <i>3</i>	
		
3 797575		Heyi Wei, Zhengdong Huang,
	•	Xuejun Liu
	•	
	, ,	5
4 797487	•	Pengfei Jia
	·	
5 797279	Performance Evaluation of High Speed	Meng Li, Xinyi Niu
	7 797775 8 797735 9 797703 0 797665 1 797645 2 797639 3 797575	Hangzhou, China 7 797777 Identification and extraction of "ghost town" in urban area 7 797775 The Research on Distribution of Urban Residential Space Value in Kunming under the Mode of EOD —— Based on the Big Data of Housing Price 8 797735 The Impact Analysis of China's PPP Project Expenditure on Local Financial Affordability 9 797703 A Responsive Landscape Design Process 1 797665 Analysis of Urban Network Structure of the Economic Zone on the West Coast of the Taiwan Straits——A study through the lens of functional contact network and innovation cooperation network 1 797645 Research on Conservation Planning of Traditional Settlement in Dali Zhonghe Village 2 797639 Research on Visualization of Urban Construction based on tilt Photography Technology 3 797575 UP-DSS: A decision support system for landscape plant selection and community configuration based on the sunshine adaptability 4 797487 A systematic evaluation of accessibility measures by the two-step floating catchment area (2SFCA) methods







CUPUN				
			Rail in Shanghai Metropolitan Area from	
			the Perspective of Urban Integration Base	
			on Internet Map API	
	36	797261	Clustering of creative industries and the	Ruoyu Chen, Haiwen Long,
			spatial drivers: An empirical study of	Man Yuan
			Wuhan	
	37	797259	A directional transmission method of	Sheng Wei, Jiangang Xu
			urban traffic congestion source	
			information by using complex network	
			theory	
	38	797195	A study on the urban time accessibility of	Li Zhang
			railway passenger traffic flows in China	
	39	797031	Changes in Jobs-Housing Relationship of	Ligao Qi, Yang Yue, Qingquan
			Public Transit Commuters: A Case Study	Li
			of Shenzhen, China	
	40	766017	Daily transport and depression among	Yong Yang
			older adults: examine England's free bus	
			policy	
	41	766015	Exploring the relationship between	Qi Zhou
			density and completeness of urban	
			building data in OpenStreetMap for	
			quality estimation	
	42	763538	Residential interrelationship, communal	Shlomit Flint
			competition and spatial distribution: The	
			case study of the Sylheti and Dhaka	
			communities of Whitechapel	
	43	763476	Data Protection Law and City Planning	Mahak Agrawal
	44	763430	Ecological Land-use Variety and Security	Jiulin Li, Jiangang Xu
			Pattern Construction: A Case Study From	
			Anqing, China	

TECHNICAL VISITS









Technical Visits

Venue: Zhongnan Garden Hotel Parking Lot Time: 13:30 on July 12 (Friday)

No.1 The State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS)

1. LIESMARS at a glance

The State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University (LIESMARS) is the first state key laboratory in the field of surveying and mapping in China. In evaluations conducted by the Ministry of Science and Technology, LIESMARS was consecutively ranked "Excellent" in 2000, 2005, 2010, and 2015. The director of LIESMARS is Prof. Chen Ruizhi. The chairman of the academic committee of LIESMARS is Prof. Li Deren, who is an academician of the Chinese Academy of Sciences and Engineering.



Figure 1 LIESMARS

2. Arrangements

14:00	Arrival at LIESMARS
14:00-14:10	Group photo at the gate
14:10-14:30	Exploration of LIESMARS
	45







- Scientific achievements exhibition (2nd floor)
- Laboratory visit (3rd floor)

14:30- 16:30 Academic communication (4th floor-Leisure Hall, 20mins speech and 10mins discussion for each topic)

- 14:30-15:00 Topic1: Luojia -1 remote sensing satellite, Prof. Guo Zhang
- 15:00-15:30 Topic2: Urban land subsidence, Prof. Mingsheng Liao
- 15:30-16:00 Topic3: Driverless cars, Prof. Bijun Li
- 16:00-16:30 Topic4: Urban big data, Prof. Xinyan Zhu







No.2 Wuhan Urban Planning Exhibition Hall (WUPEH)

1. Wuhan Planning Exhibition Hall at a glance

Located to the east of the Wuhan Citizens Home, the Wuhan Urban Planning Exhibition Hall (WUPEH) opened in October 2012. It was built to high standards and arranged at a high starting point according to the "First in China and first-class in the world" standard in order to achieve the all-in-one construction goal of "City Parlor, Service Hall and Exhibition Center" that was set by the Wuhan CPC Municipal Committee and Government. It is serving as a vital platform for the all-around display of Wuhan City's urban development history, construction achievements and future development blueprints. So far, WUPEH has been rated as a National Class AAAA Tourist Attraction. It has also been officially accredited as a "Wuhan City Field Teaching Base for Cadre Education and Training", "Patriotic Education Base" and "Popular Science Education Base", and was honored as a municipal-level "Youth Civilization Unit".

Today, WUPEH serves as a vital platform for citizens to learn about and participate in urban planning, a brilliant business card for Wuhan to display its city charms, and the preferred window for the promotion of Wuhan's city image.



Figure 2 Wuhan Urban Planning Exhibition Hall







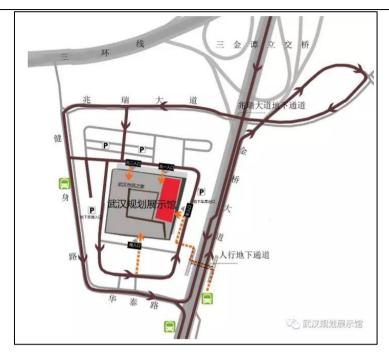


Figure 3 Location of WUPEH

2. Arrangements

14:30 Arrival at WUPEH

14:30-15:30 Exploration of WUPEH

15:30-16:30 Introduction to Information Systems (Multiple-Plan Integration and Intelligent Spatio-temporal Information Cloud Platform)

16:30-17:00 Symposium and Exchange







No.3 Wuhan Land Use and Urban Spatial Planning Research Center (WLSP)

1. WLSP at a glance

Wuhan Land Use and Urban Spatial Planning Research Center (WLSP), a public institution subordinated to Wuhan Municipal Land Resources and Planning Bureau, is a research institute specialized in public welfare services honored of dual A-class qualifications for land use planning and urban & rural planning formulations. WLSP mainly undertakes relevant studies on national, provincial and municipal land use, intensive land-use and classification and grading researches, formulation and amendment of urban planning at different levels, land use planning for construction projects and spatial planning demonstration as well as feasibility studies on urban redevelopment projects and policy studies for relevant planning implementations. Moreover, it is also engaged in handling businesses and affaire at municipal land institute.

WLSP is brave in exploration with holding the concepts of "Urban Sustainable Development" and "Integration of Plan and Land", to construct Five Technology Platforms for the research on land use, plan for execution, general management of land use, demonstration of land use and spatial planning, and policies etc., which has been appreciated highly by public opinion.



Figure 4 Wuhan Land Use and Urban Spatial Planning Research Center







2. Arrangements

14:30-16:40 Subforum Report (Room 1012, WLSP, 55 Sanyang Road, Jiangan District)

- 14:30-14:50 Topic1: Development and Application of Wuhan Land Use and Spatial Planning Information Platform
- 14:50-15:10 Topic2: Towards a Quantifiable Evaluation of Urban Prosperity
- 15:10-15:30 Topic3: The Compact Heterogeneity of Urban Spatial Form and Its Environmental Effects
- 15:30-15:40 Rest between Meetings
- 15:40:16:00 Topic4: Application of Homotopy Method to Surveying Space Resection
- 16:00-16:40 Keynote Speech or Discussion







No.4 Wuhan Planning and Design Institute (WPDI)

1. WPDI at a glance

Founded in 1979, Wuhan Planning and Design Institute (WPDI) is affiliated to the Wuhan Land Resource and Planning Bureau. It is one of the most senior planning institutes with abundant technique potence, as well as the most important planning consultant authorities for urban construction in Wuhan. The institute has the A-grade qualification in urban planning, land planning, architecture construction, and the B-grade qualification in civil public industry (drainage and transportation). There are 363 technological experts and 325 professional employees working in 17 departments. It had worked for many significant projects in the field of urban construction. It had finished many statutory planning projects such as Wuhan municipality master plan, land use master plan and controlling detailed plan etc. Based on those statutory planning projects, WPDI had conducted many planning research and design consultation works during the process of construction of urban major function districts, preservation of historical and cultural districts, renovation of old towns, and development of new towns, and had achieved outstanding reputation within the professional industry.

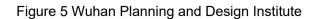
It also regards the integration between international vision and local experience. In many major governmental implementing projects and prospective innovative field, WPDI has deeply cooperated with many renowned international organizations and universities. Its cooperative partners include approximate 30 international organizations such as Forster & Partners and Arup from UK, Aria from France, ARCDIS from Netherlands, HOK and SOM from USA. The international cooperation enhanced our planning skills and standards.











2. Arrangements

14:30-14:40	Introduction of WPDI
14:40-15:30	Introduction of Territorial Spatial Planning (Master Planning) of Wuhan
15:30-16:30	The Works of Planning Informatization
16:30-17:30	The Research on Application of Big Data









Additional Information

Instructions for Conference Participants

- Please keep quiet during oral sessions, and keep clear from fellow participants' line-ofsight.
- Try not to be late for oral sessions as session halls are not big enough to tolerate disturbances.
- All oral presenters shall arrive 20 minutes prior to their designated session (8:40/13:40)
 to copy their PPT to the session computer and comply with the time limit.
- All posters should be submitted to conference staff on July 8, the day of registration.
 All posters will be displayed by the conference staff according to the schedule of poster exhibitions. (For detailed information regarding poster sessions & poster submission, please contact Dr. Wen Liu 626578894@qq.com)







Routes

- Tianhe Airport → Zhongnan Garden Hotel-Nanyuan Building
 Taking metro line 2 from Tianhe Airport Station to Baotong Temple Station, exiting from A.
- Wuhan Railway Station → Zhongnan Garden Hotel-Nanyuan Building
 Taking metro line 4 from Wuhan Railway Station to Zhongnan Road Station, exiting from C2 or D2.
- Wuchang Railway Station → Zhongnan Garden Hotel-Nanyuan Building
 Taking metro line 4 from Wuchang Railway Station to Zhongnan Road Station, exiting from C2 or D2.
- Hankou Railway Station → Zhongnan Garden Hotel-Nanyuan Building
 Taking metro line 2 from Tianhe Airport Station to Baotong Temple Station, exiting from A.

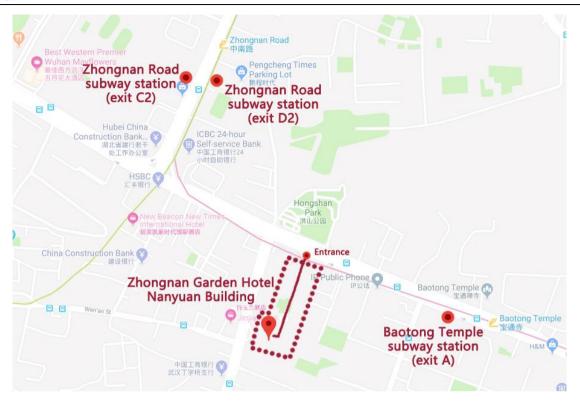
Location of Zhongnan Garden Hotel







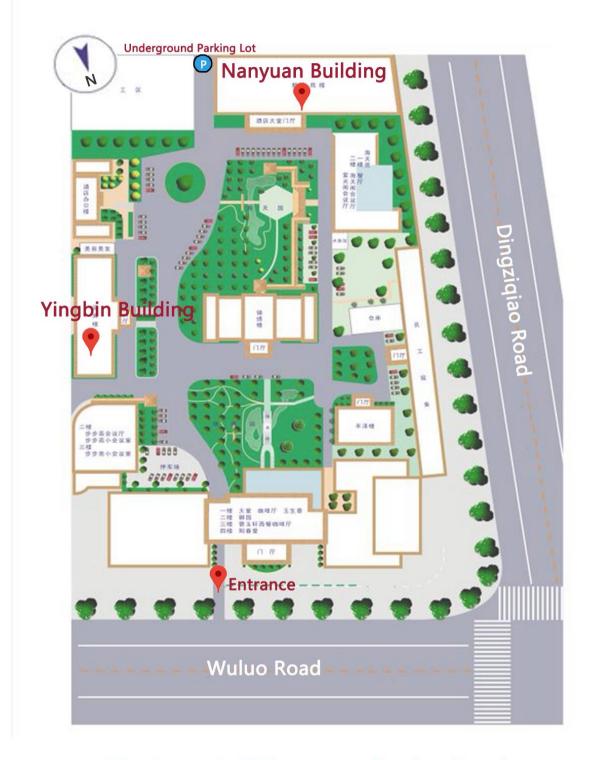












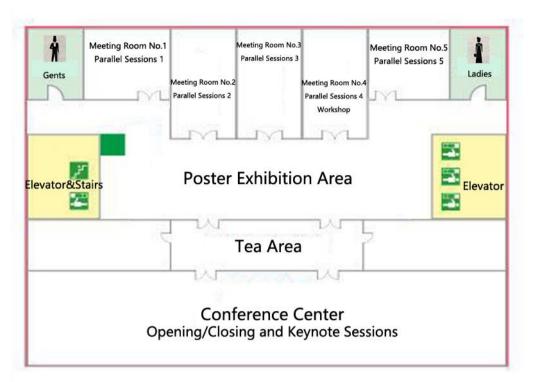
The Layout of Zhongnan Garden Hotel







Venue Floors



The 4th Floor, Nanyuan Building, Zhongnan Garden Hotel



'Population +', People-Things-Enterprises connection

Holistic data and intelligent technology service provider

聚焦"人口+" 连接人-物-企 全域数据智能科技服务商

以"人口+"数据为核心,构建全域数据资源版图



用戶屬性,上約90世,白葉拉達, 終期到可靠数据



交通、统计、地理、学历、环境、气象数据



卫皇高栋、GPS、WFL 按针等位置数据

人口+消费+产业



中国联通4亿+匿名数据



线上线下消费数据 消费损失, 编环, 购买人群 运维等数据



网上行为,APP应用物数据



全业注册信息、资本构成、勤劳情况、矢信情况等数据

Smart Steps Digital Technology Co., Ltd. is a professional big data and Intelligent technology company controlled by China Unicom, with shares held by JD Digits and Telefónica.

The company focuses on 'Population+' big data, successfully connected People-Things-Enterprises, and is a holistic data intelligent technology service provider based on China Unicom's data resources, Telefônica world-leading Smart Steps mature technology, JD Digits powerful cutting-edge technologies such as big data, artificial intelligence, Internet of Things, and 'Industry × Technology' capabilities.

As for now, the company has built the world's most powerful mobile signaling processing platform and has independently developed 10 major product platforms. The company is the No.1 Population big data service provider in City Planning Industry in China. Its business covers Urban planning, Governments, Finance, Commercial enterprise and other sectors. The company has provided services for hundreds of head customers such as State Ministries, Local provincial/municipal governments, over 300+city planning. Well-known enterprises and Universities, state-owned and joint-stock banks and large internet finance companies.

智慧足迹数据科技有限公司是中国联通控股, 京东数字科技和西班牙电信参股的专业大数据及智 能科技公司。公司依托中国联通卓越的数据资源,全 球领先Smart Steps成熟技术,京东数字科技强大的 大数据、人工智能、物联网等技术和"产业X科技"能 力,聚焦"人口+"大数据,连接人-物-企,成为全域数 据智能科技服务商。

截至目前,公司已建成全球最强大的手机信令 处理平台,自主研发10大产品平台。公司业务覆盖城 市、政府、金融、商企等领域,服务国家多个部委及省 市政府、300+城市规划、知名企业和高校、国有及股 份制银行和大型互金等数百家头部客户,是中国城 市规划人口大数据第一服务商。









Local Information

Wuhan

Wuhan is one of the largest cities in mainland China and the biggest city in the central part of China. It is also a major transportation hub in central China. Wuhan is the capital city of Hubei province and has a population of 10 Million. The city of Wuhan has over 3500-year-long history and is the birth place of the Chu culture. Wuhan has also played a very important role in the modern history of China as Wuhan people did the first uprising to end the Qing dynasty before the Republic of China.

Wuhan is aside by Yangtze River, and it is often called "city of rivers & lakes". It is divided by Yangtze river and Han river into three main districts: Hanyang (汉阳), Hankou (汉口) and Wuchang (武昌). Hanyang is mainly famous for industry, Hankou is the commercial center and Wuchang is full of universities. It is worthy to mention that Wuhan as a city has greatest number of college students in China.

Wuhan is in fast development, and the slogan of Wuhan is "Wuhan, different everyday", which is proposed by one of the professors from Central China Normal University.







Travel Tips



⊘Wi-Fi

In the airport you can connect to Wuhan public Wi-Fi "iWuhan-free".

After registration with your mobile phone number, you can enjoy the high-quality and safe wireless Internet.

¥ Money Exchange

You can find money exchange counter on F2 and F4:

On arrival: F2

On departure: F4

Metro

You can buy the tickets with cash, Alipay, Wechat Pay or Wuhan Transportation Card.

You can use 1 Yuan coins, or 5, 10 or 20 Yuan notes for the ticket vending machines. The ticket is a round plastic coin. Use it when you go in and go out of the stations.



Power Plugs / Sockets in China

There are three types of plugs used in China: three-pronged angled pins, two flat pins (the most common) or two narrow round pins. Electricity is 220 volts, 50 cycles AC.

(c) Emergency Numbers

Police (Calling)	110
Police (Text Message)	12110
First-aid Ambulance	120
Fire	119
Traffic Accidents	122
SOS in Water	12395

Contact

Donald Dan, +86-18971599764, Room 80503 of Nanyuan Building (The organizing committee is here to help during the conference)

Website: https://cupum2019.aconf.org/index.html







CUPUM 2019