The 1st International Conference on Urban Informatics (ICUI 2017)

Programme

13th November 2017 (Mon)		
8:00 - 9:30	Registration	Z2/F podium
9:30 - 10:00	Opening Ceremony *Session Chair: Prof. Wen-zhong Shi, The Hong Kong Polytechnic University* Welcome Remarks *Ir Prof. Ping-kong Alexander Wai, Vice President (Research Development), The Hong Kong Polytechnic University* Opening Address *Mr. Kwok Wai, Paul Ng, Deputy Director / Survey and Mapping, Lands Department, The Government of the HKSAR*	Z207
10:00 - 10:30	**Keynote Speech 1**: Geoinformatics for Driverless Vehicles *Prof. Michael Goodchild, University of California, Santa Barbara, US*	
10:30 - 10:45	Group Photo	
10:45 - 11:00	Coffee Break	
11:00 - 11:30	**Keynote Speech 2**: Big Data and Urban Informatics *Prof. Anthony Yeh, The University of Hong Kong, Hong Kong*	Z207
11:30 - 12:00	**Keynote Speech 3:** Spatiotemporal big data analysis based on social sensing *Prof. Jianya Gong, Wuhan University, China*	
12:00 – 13:30	Lunch *Sponsored by: A & P Instrument Co., Ltd*	Z2/F podium
	Session 1: Urban Sensing *Session Chair: Prof. Liu Yaolin, Wuhan University*	
13:30 – 14:00	Land Surface Temperature Inversion And The Urban Heat Island Response Mechanism Of Xi'an City Based On TM/ETM+ Images (39) *Boyan Li, et. al, Wuhan University, China*	Z503
14:00 – 14:30	Discovering Urban Functional Regions Using Latent Semantic Information: Spatiotemporal Data Mining Of Floating Cars GPS Data Of Guangzhou (20) *Xuliang Li, et. al, Sun Yat-Sen University, China*	

14:30 – 15:00	Study On The Relationship Between Urban Physical Environment And Human Behavior Pattern Based On Remote Sensing And Social Media Data (17) *Fangyi Cai, et. al, The Hong Kong Polytechnic University, HK*	
15:00 - 15:30	The Application Of Change Detection Technique In Urban Area (35) *Huifang Zhang, et. al, Wuhan University, China*	
15:30 – 15:45	Coffee Break	
	Session 2: Urban Planning I *Session Chair: Dr. Christopher Higgins, The Hong Kong Polytechnic University*	
15:45 – 16:15	Accessibility, Air Pollution, And Net Land Value Uplift From Highway Infrastructure (11) *Christopher Higgins, The Hong Kong Polytechnic University, HK*	Z503
16:15 – 16:45	Spatial Representation of Solar Rights For Individual House Unit (O1) *Lei Yuan, et. al, Wuhan University, China*	
16:45 – 17:15	The Identification of Nanjing Urban Function Area Based on Point of Interest Data (POI): A Case Study of Nanjing (6) *Ge Shi, et. al, Nanjing Normal University, China*	
17:15 – 17:45	Impact Of Location Based Social Network On Business Site Selection (31) *Xiaolin Zhou, et. al, The Hong Kong Polytechnic University, HK*	
18:00 - 20:00	Conference Banquet	Staff Club, PolyU

14th November 2017 (Tue)		
9:00 - 9:30	**Keynote Speech 4**: Urban Informatics and the High Frequency City *Prof. Michael Batty, University College London, UK*	Z206
	Session 3: Geospatial Data Management, 3D GIS And Deep Learning *Session Chair: Dr. Bo Wu, The Hong Kong Polytechnic University*	
9:30 – 10:00	Combining High Resolution Optical And SAR Data For Urban Land Cover Classification Using A Deep Convolutional Network (5) *Hongsheng Zhang, et. al, The Chinese University of Hong Kong, HK*	
10:00 – 10:30	Building Classification Based On LiDAR And High-Resolution Image (22) *Qingli Shi, et. al, Sun Yat-Sen University, China*	
10:30 – 11:00	Integration Of Aerial Oblique Imagery And Ground Mobile Mapping Data For Improved 3d Mapping And Modelling In Urban Areas (36) *Bo Wu, The Hong Kong Polytechnic University, HK*	Z206
11:00 – 11:30	Three Dimensional Digital City Based On Hololens (21) *Xingxing Wu, et. al, Wuhan University, China*	
11:30 - 11:45	Coffee Break	
	Session 4: Uncertainty & Contexts In Urban Data Analytics *Session Chair: Prof. May Yuan, The University of Texas at Dallas*	
11:45 – 12:15	**Session Keynote Speech**: Experiential Cities *Prof. May Yuan, The University of Texas at Dallas, USA*	
12:15 – 12:45	Understanding The Effect Of The Modifiable Areal Unit Problem On Self-Containment Of Employment And Jobs-Housing Balance Using Big Data (12) *Joseph Xingang Zhou, et. al, The University of Hong Kong, HK*	Z206
12:45 – 13:15	Mining Significant Spatial Association Rules with Genetic Algorithm (32) *Anshu Zhang, The Hong Kong Polytechnic University, HK*	
13:15 – 14:30	Lunch	Chinese Garden
	Session 5: Health, Well-Being And Governance *Session Chair: Prof. Qingquan Li, Shenzhen University*	
14:30 – 15:00	**Session Keynote Speech**: Research and Education on Urban Informatics - Innovations at Shenzhen University *Prof. Qingquan Li, et. al, Shenzhen University, China*	Z206

15:00 – 15:30	Bigger Is Better? An Empirical Analysis Of City Compactness And Spatial Autocorrelation In Guangdong Province (16) *Qian Xu, Jinan University, China*	
15:30 – 16:00	Identification Of Typical Diurnal Patterns For Clear-Sky Climatology Of Surface Urban Heat Island (18) *Jiameng Lai, et. al, Nanjing University, China*	
16:00 – 16:15	Coffee Break	
	Session Chair: Prof. Zhu Qing, Southwest Jiaotong University	
16:15 – 16:45	Augmented Spatial Participation: Role Of Facebook And Twitter In Protests (9) *Seungho Yoo, University College London, UK*	Z206
16:45 – 17:15	Pollution Characteristics of Atmospheric Particulate Matter in Cities of China (30) *Yuanyuan Huang, et. al, China University of Mining and Technology, China*	
17:15 – 17:45	An Urban Policy Evaluation Tool For Improving Urban Governance And Well-Being (15) *Jian Yi, et. al, The Hong Kong Polytechnic University, HK*	

15th November 2017 (Wed)		
	Session 6: Transportation & Human Dynamics I *Session Chair: Prof. Mei-po Kwan, University of Illinois at Urbana-Champaign*	
9:00 – 9:30	**Session Keynote Speech**: Big Data and Algorithmic Uncertainty in Human Mobility Research *Prof. Mei-po Kwan, University of Illinois at Urbana-Champaign, US*	Z503
9:30 – 10:00	Understanding the Impacts of Human Mobility on Accessibility using Massive Mobile Phone Tracking Data (24) *Bi-yu Chen, et. al, Wuhan University, China*	
10:00 – 10:30	Visual Analytics of Micro Moving Behaviour based on GPS Trajectories (25) *Min Lu, ShenZhen University, China*	
10:30 – 10:45	Coffee Break	
	Session 7: Transportation & Human Dynamics II *Session Chair: Prof. Shih-lung Shaw, The University of Tennessee*	
10:45 – 11:15	**Session Keynote Speech**: Human Dynamics Research with Urban Informatics - Some Lessons Learned *Prof. Shih-lung Shaw, The University of Tennessee, US*	Z503
11:15 – 11:45	A Network-Based Linear Tessellation For Automatically Identifying Urban Street Patterns (27) *Yakun He, et. al, Wuhan University, China*	
11:45 – 12:15	Precise Space-Time Interventions On Intra-Urban Dengue Outbreaks Using Large-Scale Mobile Phone Tracking Data (37) *Ling Yin, et. al, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China*	
12:15 – 12:45	MPDA: A Method of Detecting Mixed Periodic Patterns From Moving Object Data (38) *Jun Li, et. al, China University of Mining and Technology, China*	
12:45 – 13:45	Lunch	

	Session 8: Urban Planning II *Session Chair: Dr. Zhizhao Liu, The Hong Kong Polytechnic University*	
13:45 – 14:15	Predicating House Price From Big Urban Data With Machine Learning (26) *Wei Tu, et. al, ShenZhen University, China*	
14:15 – 14:45	Road Centrality And Urban Landscape Patterns In Wuhan City, China (13) *Yanfang Liu, et. al, Wuhan University, China*	Z503
14:45 – 15:15	Effects of Weather Conditions on Walkability: A Review Study (33) *Zhizhao Liu, et. al, The Hong Kong Polytechnic University, HK*	
15:15 – 16:15	**Panel Discussion**: Research Initiatives in Urban Informatics *Moderator: Prof. Wen-zhong Shi, The Hong Kong Polytechnic University*	
16:15 - 16:30	Best Paper Award Presentation & Closing	

*The conference will be broadcasted simultaneously at ZN607.

The programme is subject to change.

More information can be found at http:// event.lsgi.polyu.edu.hk/ICUI2017/