

## The 1<sup>st</sup> International Conference on Urban Informatics (ICUI 2017)

### Programme

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

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



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



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



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### 15<sup>th</sup> November 2017 (Wed)

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

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	<i>Session 8: Urban Planning II</i> <i>Session Chair: Dr. Zhizhao Liu, The Hong Kong Polytechnic University</i>	
13:45 – 14:15	Predicating House Price From Big Urban Data With Machine Learning (26) <i>Wei Tu, et. al, ShenZhen University, China</i>	Z503
14:15 – 14:45	Road Centrality And Urban Landscape Patterns In Wuhan City, China (13) <i>Yanfang Liu, et. al, Wuhan University, China</i>	
14:45 – 15:15	Effects of Weather Conditions on Walkability: A Review Study (33) <i>Zhizhao Liu, et. al, The Hong Kong Polytechnic University, HK</i>	
15:15 – 16:15	<b>Panel Discussion:</b> Research Initiatives in Urban Informatics <i>Moderator: Prof. Wen-zhong Shi, The Hong Kong Polytechnic University</i>	
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/](http://event.lsgi.polyu.edu.hk/ICUI2017/)

