

## The Second International Conference on Urban Informatics (ICUI 2019) Rundown

Location: 2/F, Block Z, PolyU

24 June 2019 (Mon) AM		
Time	Activity	location
8:30 - 9:15	Registration @ Z2/F podium, Block Z, PolyU	
9:15 - 9:30	<p>Opening Ceremony <i>Session Chair: Prof. John SHI</i></p> <p>Welcome Remarks  <i>Ir Prof. You-Lin XU, Dean of Faculty of Construction and Environment;                      Chair Professor of Structural Engineering, The Hong Kong Polytechnic University</i></p> <p>Opening Address  <i>Mr. Kin-wah Ray LEUNG, JP, Deputy Director, Lands Department, HKSAR Gov't</i></p> <p>Introduction  <i>Prof. Wen-zhong John SHI, Chair of Organizing Committee, ICUI 2019</i></p>	Z209
9:30 - 10:00	<p><b>Keynote Speech 1:</b> Urban Analytics and Smart Cities  <i>Prof. Michael BATTY, University College London, UK</i></p>	
10:00 - 10:30	Group Photo & Coffee Break @ Z2/F podium	
10:30 - 11:00	<p><b>Keynote Speech 2:</b> Senseable Cities <i>Session Chair: Prof. Michael Goodchild</i></p> <p><i>Prof. Carlo RATTI, Director, MIT Senseable City Lab, Massachusetts Institute of Technology, USA</i></p>	
11:00 - 11:30	<p><b>Keynote Speech 3:</b> A New Approach to Mapping Spatial Variations in Travel Choices  <i>by Dr. Ying JIN, University Reader; Director of the Martin Centre for Architectural and Urban Studies, University of Cambridge, UK</i></p>	Z209
11:30 - 12:00	<p><b>Keynote Speech 4:</b> Research Progress and Challenges in Pan-Space Information System  <i>Prof. Chenghu ZHOU, Academician of Chinese Academy of Sciences; Director of the State Key Laboratory of Resources and Environment Information System, China</i></p>	
12:00 - 13:30	Lunch @ Chinese Restaurant, 4/F, Communal Building	

24 June 2019 (Mon) PM

	<p><b>1) Smart Governance</b> <i>Session Chairs: Mr. Tony WONG &amp; Prof. John SHI</i>  13:30 – 13:50: &lt;TBC&gt; by Mr. Tony WONG, Office of the Government Chief Information Officer, HKSAR Gov't  13:50 – 14:10: Digital Reality to support Smart Nation by Dr. Victor KHOO, Singapore Land Authority  14:10 – 14:30: Reflections and Exploration on the Progress in Geographic Information Systems (GIS): An Urban Perspective by Mrs. Wei SUN, Shenzhen Municipal Planning &amp; Land &amp; House Information Center, China  14:30 – 14:50: Urban Geospatial Data Platforms by Mr. Carsten ROENSDORF, Ordnance Survey, UK  14:50 – 15:10: Map Application Programming Interfaces, a Building Block of Common Spatial Data Infrastructure for Urban Informatics by Mr. Samuel NGAN, Lands Department, HKSAR Gov't  15:10 – 15:30: 3D Planning and Design System: A New Planning Tool in the Digital Era by Mr. Rico TSANG, Planning Department, HKSAR Gov't  15:30 – 15:50: Automatic Meter Reading (AMR) by Mr. Kin-bong HO, Water Supplies Department, HKSAR Gov't</p>	Z207
13:30 - 16:00	<p><b>2.1) Transports System I</b> <i>Session Chairs: Dr. Yaoli WANG &amp; Dr. Lilian Pun</i>  13:30 – 13:50: Investigating Local Travel Speed with Spatial Network Structures and Properties by Dr. Yaoli WANG, Peking University, China  13:50 – 14:10: Investigating Relationships between Bike-sharing and Public Transit: A Spatial-Temporal Approach by Mr. Yuchuan HUANG, University of Minnesota, Twin Cities, US  14:10 – 14:30: A Heuristic Roulette Gambling Method for Bus Line Planning Based on Trajectories Data of Large-scale Floating Cars by Dr. Haixia MAO, Shenzhen Polytechnic, China  14:30 – 14:50: An Approach for Filter Divergence Refraining in Sequential Data Assimilation and its Application in Short-term Traffic Flow Prediction by Ms. Runjie WANG, The Hong Kong Polytechnic University, HK  14:50 – 15:10: Study On the Quantitative Relationship Between Urban Traffic Congestion Point and its Adjacent Environment by Mr. Sheng YE, Chongqing Geomatics Centre, China  15:10 – 15:30: Quantifying the Shared Mobility Pattern and Electrification Potential in Beijing Using Massive GPS Trajectories by Prof. Wei TU, Shenzhen University, China</p>	Z206
(Parallel Sessions)	<p><b>3) Urban Metabolisms</b> <i>Session Chairs: Prof. Changbin WU &amp; Dr. Charles WONG</i>  13:30 – 13:50: Spatiotemporal Characteristics and Mechanism Analysis of Urban Multi-Year Real Estate Registration: A Case Study of Suzhou, China by Prof. Changbin WU, Nanjing Normal University, China  13:50 – 14:10: Study on the Transformation Path of Brownfield from the Perspective of Urban Renewal by Dr. Haobing WANG, Southeast University, China  14:10 – 14:30: Analysis on the Spatiotemporal Changes of the Coastline of Hainan Island from 1975 to 2018 by Ms. Wanlu QIAN, Wuhan University, China  14:30 – 14:50: How Does Assessor-Based Land Value Changes from 1972 – 2015: An Assessment Study of Land Valuation Practices in Baybay City, Philippines by Mrs. Jannet BENCURE, Asian Institute of Technology, Thailand  14:50 – 15:10: Multi-Scale Evaluation of Factors of Coastline Change in Hainan Island based on the Improved Weighted Apriori Algorithm by Mrs. Xin WANG, Wuhan University, China</p>	Z208
	<p><b>4.1) Urban Spatial Structure I</b> <i>Session Chairs: Prof. Bo-sin TANG &amp; Dr. Xintao LIU</i>  13:30 – 13:50: Measuring Walking Accessibility to Public Open Space in a Multi-level Urban Environment by Prof. Bo-sin TANG, The University of Hong Kong, HK  13:50 – 14:10: Discovering City Functional Region and Human Mobility Patterns Using Mobile Phone Data by Prof. Yuanyuan QIAO, Beijing University of Posts and Telecommunications, China  14:10 – 14:30: An Empirical Study on 3D Space Syntax Using Wi-Fi Big Data by Dr. Xintao LIU, The Hong Kong Polytechnic University, HK  14:30 – 14:50: Modelling Spatial Non-Stationary Relationships in Housing Market with Incorporating Night-Time Light Data: A Case Study in Wuhan by Ms. Jiayi XIE, Wuhan University, China  14:50 – 15:10: A Study about Urban Space Vitality Characteristics in Shenzhen Based on Public Transportation Data by Mr. Guangzhou WU, The Smart City Research Institution of China Electronic Technology Group Corporation, China  15:10 – 15:30: The Influence of Spatial Evolution of Road Network Nodes on Urban Consumption Centers by Ms. Yan HUANG, Wuhan University, China</p>	Z204

Session Chair



25 June 2019 (Tue) AM			
9:00 - 9:30	<b>Keynote Speech 5:</b> Enhancing Urban Mobility <i>Prof. Michael GOODCHILD, University of California, Santa Barbara, US</i>	<i>Session Chair: Prof. John SHI</i>	
9:30 - 10:00	<b>Keynote Speech 6:</b> Transport GIS for Future Smart Cities <i>Prof. Anthony YEH, The University of Hong Kong, Hong Kong</i>	Z207	
10:00 - 10:30	<b>Keynote Speech 7:</b> Smart Cities and New Urban Science <i>Prof. Renzhong GUO, Academician of Chinese Academy of Engineering; Dean of Research Institute for Smart Cities, Shenzhen University, China</i>		
10:30 - 10:45	<i>Coffee Break</i>		
10:45 - 12:00 (Parallel Sessions)	<b>5.2) Smart Cities and Urban Science II</b> 10:45 – 11:05: Follow The Law of Nature: Understanding Smart City by <i>Prof. Lixin WU, Central South University, China</i> 11:05 – 11:25: Let's Talk About Digital Twins and Future Cities by <i>Dr. Gerhard SCHROTTER, City of Zurich/ Public Administration, Switzerland</i> 11:25 – 11:45: Take a Look Around: Geographic Knowledge Discovery for the Case Study of London Streetviews by <i>Dr. Stephen LAW, The Alan Turing Institute and University College, UK</i>	<i>Session Chairs: Prof. Lixin WU &amp; Prof. ZL LI</i>	Z207
	<b>7) Smart Mobility</b> 10:45 – 11:05: Flow Patterns Indoor and Their Reasons both for Group and for Individual: Inferences from Positioning Data by <i>Prof. Tao PEI, Institute of Geographic Sciences and Natural Resources Research, China</i> 11:05 – 11:25: Unravel the Landscape and Pulses of Cycling Activities from a Dockless Bike-sharing System by <i>Dr. Yang XU, The Hong Kong Polytechnic University, HK</i> 11:25 – 11:45: A Novel Map Matching Algorithm for Low Sampling Rate Trajectory Data with the Hidden Markov Model by <i>Mr. Yigong HU, Wuhan University, China</i>	<i>Session Chairs: Prof. Tao PEI &amp; Dr. Yang XU</i>	Z206
	11:45 – 12:05: A Review of the Application of Data-Driven Human Mobility Research in Smart City Development by <i>Dr. Anqi WANG, The Hong Kong Polytechnic University, HK</i>		
	<b>8) Housing</b> 10:45 – 11:05: The Spatio-Temporal Accessibility of Comprehensive Service Facilities of Residential Areas Based on Internet Map by <i>Dr. Xinxin ZHOU, Nanjing Normal University, China</i> 11:05 – 11:25: Developing Multi-Detail Residential Building Typologies. A Case Study in Ningbo by <i>Ms. Polina TROFIMOVA, University of Nottingham (Ningbo), China</i> 11:25 – 11:45: Impact of The Hong Kong-Zhuhai-Macao Bridge on Second-hand Housing Prices in Zhuhai by <i>Mr. Nianhua LIU, Sun Yat-Sen University, China</i> 11:45 – 12:05: Development of Land Valuation Model for Mass Appraisal: A Case Study in Baybay City, Philippines by <i>Mrs. Jannet BENCURE, Asian Institute of Technology, Thailand</i>	<i>Session Chairs: Prof. Lingkui MENG (WHU) &amp; Dr. Tony ZHUGE</i>	Z208
	<b>9.1) Spatial Data Infrastructure (SDI) I</b> 10:45 – 11:05: Large Scale Underground Utility Mapping Using Mobile Ground Penetrating Radar: A Case Study in Singapore by <i>Dr Siow Wei JAW, Singapore-ETH Centre, Singapore</i> 11:05 – 11:25: Development of Spatial Big Data Analysis Platform for Smart City in Korea by <i>Dr. Soohyun KIM, Yonsei University, Republic of Korea</i> 11:25 – 11:45: Research on 3D Scene Modeling Method of Residential Area Based on Construction Drawing by <i>Mr. Pengxiang WANG, Nanjing Normal University, China</i>	<i>Session Chairs: Prof. Jing Wang &amp; Dr. Matthew Pang</i>	Z204
	12:15 - 14:00	<i>Lunch @ Chinese Restaurant, 4/F, Communal Building</i>	

25 June 2019 (Tue) PM

	<p><b>10.1) Urban Remote Sensing I</b> <i>Session Chairs: Prof. Jianjun ZHU &amp; Dr. Xu Wenbin</i></p> <p>14:00 – 14:20: Sub-Canopy Topography Estimation from Polinsar Data with Complex Adjustment Method by <u>Prof. Jianjun ZHU</u>, <i>Central South University, China</i></p> <p>14:20 – 14:40: Remotely Sensed Imagery Classification Using a Spatially Constrained Fuzzy C-means Clustering Algorithm by <i>Prof. Hua Zhang, China University of Mining and Technology, China</i></p> <p>14:40 – 15:10: Potentiality of Using Luojia 1-01 Nighttime Light Imagery to Estimate Urban Community Housing Price by <i>Dr. Chang LI, Central China Normal University, China</i></p> <p>15:10 – 15:30: Elevation Data Generation from Earth Observations for Urban Morphology Classification by <i>Dr. Lei ZHANG, The Hong Kong Polytechnic University, HK</i></p> <p>15:30 – 15:50: Fast Topographical Mapping at 1:500 Scale in Mountain Cities Using UAV-Based Oblique Photogrammetry and Laser Point Cloud by <i>Mr. Yuqi HE, Chongqing Survey Institute, China</i></p>	Z207
14:00 - 15:50 (Parallel Sessions)	<p><b>11) A.I. &amp; Urban Model I</b> <i>Session Chairs: Ms. Ruijun LIU &amp; Dr. Xintao LIU</i></p> <p>14:00 – 14:20: Apply Computer Vision and Machine Learning to Measures Human Perception of Street Design Quality by <u>Ms. Ruijun LIU</u>, <i>Harvard University, US</i></p> <p>14:20 – 14:40: A New Landslide Detection Approach Based on Deep Convolutional Neural Network by <i>Dr. Min ZHANG, The Hong Kong Polytechnic University, HK</i></p> <p>14:40 – 15:10: UrbanAI - Developing Machine Learning Approaches and Interfaces to Support the Planning and Delivery of Transport and Housing in Sydney by <i>Mr. Oliver LOCK, UNSW Sydney, Australia</i></p> <p>15:10 – 15:30: Multi-Scenarios Simulation of Urban Land-use Change in Shanghai Based on Random Forest and CA-Markov Model by <i>Ms. Xuewei DANG, Lanzhou Jiaotong University, China</i></p> <p>15:30 – 15:50: Prognosis for Location for Affordable Housing for Pune Using Artificial Neural Network by <i>Mr. Harshil Panka MUTHA, Pandit Deendayal Petroleum University, China</i></p>	Z206
	<p><b>13) Transport and Urban Ecology</b> <i>Session Chairs: Prof. Wujiao Dai &amp; Dr. George LIU</i></p> <p>14:00 – 14:20: Forecasting Ridership to Plan New Public Transport by Using Smartphone Data by <i>Prof. Tao CHENG, University College London, UK</i></p> <p>14:20 – 14:40: Zero Emission Mobility Campus by <i>Ms. Rebecca HECKMANN, University of Applied Sciences, Stuttgart, Germany</i></p> <p>14:40 – 15:10: Understanding The Interplay Patterns Between Bus, Metro and Taxi Before and After the Chinese Spring Festival by <i>Mr. Jianwei HUANG, The Hong Kong Polytechnic University, HK</i></p> <p>15:10 – 15:30: Unraveling the Disparity of Service Accessibility through Commuter-based Two-step Floating Catchment Area Method Using Cellphone Big Data by <i>Mr. Zifeng CHEN, The University of Hong Kong, HK</i></p>	Z208
	<p><b>9.2) Spatial Data Infrastructure (SDI) II</b> <i>Session Chairs: Prof. Qunming WANG &amp; Dr. Tony ZHUGE</i></p> <p>14:00 – 14:20: Spatial-temporal Evolution and Completeness Analysis of OpenStreetMap Building Data in China from 2012 to 2017 by <i>Dr. Qi ZHOU, China University of Geosciences, China</i></p> <p>14:20 – 14:40: Temporal and Spatial Pattern Evolution of Nanjing Urban Water System in the Near Hundred Years Under the Framework of Time and Space by <i>Ms. Wanrong JIN, Nanjing Normal University, China</i></p> <p>14:40 – 15:00: Topological Modelling for Multidimensional Cadastral Objects Based on Ordered Topological Model by <i>Dr. Yuan DING, Hohai University, China</i></p>	Z204
15:50 - 16:05	<i>Coffee Break</i>	

	<p><b>10.2) Urban Remote Sensing II</b> <i>Session Chairs: Prof. Bijun LI &amp; Dr. Xu Wenbin</i></p> <p>16:05 – 16:25: Clustering Based OCC with Auxiliary Social Media to Classify Impervious Surface Area from SAR Data by <i>Dr. Zelang MIAO, Central South University, China</i></p> <p>16:25 – 16:45:</p> <p>16:45 – 17:05: Classification of Hyperspectral Data from Urban Areas Based on Weighted Logistic Metric Learning by <i>Dr. Yanni DONG, The Hong Kong Polytechnic University, HK</i></p> <p>17:05 – 17:25: Utilization of Remote Sensing and Social Sensing Data for Land Use Classification by <i>Ms. Adillah ALFATINAH, National Cheng Kung University, Taiwan</i></p> <p>17:25 – 17:45: Super-Resolution Research on Remote Sensing Images in the Megacity Based on Improved SRGAN by <i>Mr. Zhipeng LI, Shanghai Institute of Surveying and Mapping, China</i></p> <p>17:45 – 18:05: A Semi-Interactive Indoor 3D Reconstruction Method Based on Image Partition by <i>Mr. Niaotao LIU, Nanjing Normal University, China</i></p>	Z207
25 June (Tue)	<p><b>12) A.I. &amp; Urban Model II</b> <i>Session Chairs: Dr. Ding MA &amp; Dr. Xintao LIU</i></p> <p>16:05 – 16:25: How Similar or Different Are Streets Among Cities? Urban Street Network Analysis Using Graph Convolutional Neural Network by <i>Dr. Ding MA, University of Gavle, Sweden</i></p> <p>16:25 – 16:45: Spatio-Temporal Modeling Between Nighttime Light Intensity and GDP for Wuhan Metropolitan Area by <i>Dr. Chang LI, Central China Normal University, China</i></p> <p>16:45 – 17:05: Regional Scene Risk Analysis Based on Convolutional Neural Networks and Decision Tree by <i>Mr. Zhipeng XIONG, Wuhan University, China</i></p> <p>17:05 – 17:25: Computing Sequential Experiences of an Urban Street Using Deep Learning Technique by <i>Dr. Perry P J Yang, Georgia Institute of Technology, USA</i></p>	Z206
16:05 - 18:05 (Parallel Sessions)	<p><b>14) Urban Positioning</b> <i>Session Chairs: Prof. Yu LIU &amp; Dr. George LIU</i></p> <p>16:05 – 16:25: Applications of Low Cost RGB-D Sensor for SLAM by <i>Prof. Wu CHEN, The Hong Kong Polytechnic University, HK</i></p> <p>16:25 – 16:45: Improved Robust Kalman Filter in GPS/UWB/MEMS-IMU Tightly Coupled Navigation and Indoor Positioning by <i>Prof. Zengke LI, China University of Mining and Technology, China</i></p> <p>16:45 – 17:05: Optimization Estimation of Indoor Motion Trajectory of RGB-D Camera Based on Depth Calibration by <i>Ms. Xuan LIAO, Wuhan University, China</i></p> <p>17:05 – 17:25: Sensing Traffic Congestion at the Turn Level from Taxis' GPS Trajectory Data by <i>Ms. Zihan KAN, Wuhan University, China</i></p>	Z208
	<p><b>15) Human Health and Well-being</b> <i>Session Chairs: Prof. Huan XIE &amp; Dr. Tony ZHUGE</i></p> <p>16:05 – 16:25: Identification of Typical Annual and Diurnal Patterns for Clear-Sky Climatology of Surface Urban Heat Island by <i>Dr. Zihan LIU, Nanjing University, China</i></p> <p>16:25 – 16:45: Spatio-Temporal Pattern Analysis of Ambulance Demand in Tokyo via the Bayesian Approach by <i>Mr. Tianqi XIA, The University of Tokyo, Japan</i></p> <p>16:45 – 17:05: A New Evaluation Approach to The Impact of Rising Density on the Pattern of Urban Open Space by <i>Ms. Wei SHI, The University of Hong Kong, HK</i></p> <p>17:05 – 17:25: Analysis of Spatial Disparities in Health Care Accessibility: The Comparison Between the Central Part of Two Typical Cities in China by <i>Ms. Meijie CHEN, Wuhan University, China</i></p> <p>17:25 – 17:45: Environment and Perceived Restorativeness: A Comparative Study Between Urban Cemeteries and Parks Among Users with Different Mental Conditions in Edinburgh by <i>Ms. Ka Yan LAI, The University of Hong Kong, HK</i></p> <p>17:45 – 18:05: Mapping of Health Risk as Air Pollution Used by Open Source Software by <i>Ms. Uyanga ANKHBAYAR, Land Administration Department of Capital City, Mongolia</i></p>	Z204
18:15	<i>The First General Assembly of ISUI</i>	Z208

26 June 2019 (Wed) AM		
9:00 - 9:30	<b>Keynote Speech 8:</b> Some Thoughts on Undergraduate Education & Research in Urban Informatics <i>Prof. Qingquan LI, President, Shenzhen University, China</i>	<i>Session Chair: Prof. Michael Batty</i>
9:30 - 10:00	<b>Keynote Speech 9:</b> Towards Urban Informatics <i>Prof. John SHI, Director of Laboratory for Smart City and Spatial Big Data Analytics; Head &amp; Chair Professor of LSGI, PolyU</i>	Z207
	10:00 – 10:30 <b>Dialogue with International Journal Editors</b> <i>Session Chair: Prof. John SHI</i>	
	<b>16.1) Urban Technologies and Principles I</b> <i>Session Chairs: Prof. Min DENG &amp; Dr. Bo WU</i> 10:35 – 10:55: Zero Velocity Interval Detection based on CHMM in Micro Inertial Pedestrian Navigation by <i>Prof. Wei SUN, Liaoning Technical University, China</i> 10:55 – 11:15: Urban Multi-Source POI Data Fusion by Controlling the Uncertainty of Location and Attribute by <i>Dr. Chang LI, Central China Normal University, China</i> 11:15 – 11:35: Spatiotemporal Visualization Method of Road Waterlogging for Urban Flood Warning by <i>Mr. Kaiyue ZANG, Nanjing Normal University, China</i>	Z207
	<b>16.2) Urban Technologies and Principles II</b> <i>Chairs: Prof. Roberto Ponce LOPEZ &amp; Dr. Chris HIGGINS</i> 10:00 – 10:20: A Systematic Tracing of Temporal and Spatial Boundaries of Places with High Concentration of Human Activity to Identify Popular Non-Work Destinations by <i>Prof. Roberto Ponce LOPEZ, Tecnologico de Monterrey, Mexico</i> 10:20 – 10:40: Exploring the Evolution of Urban Road Networks from Fractal Perspectives by <i>Dr. Hong ZHANG, Southwest Jiaotong University, China</i> 10:40 – 11:00: HoloCity - Visual Analytics of Real-Time and Massive Passively-Collected Spatiotemporal Urban Sensor Data in Augmented Reality by <i>Mr. Oliver LOCK, UNSW, Australia</i>	Z208
10:00 – 11:20 (Parallel Sessions)	<b>17) Urban Big Data and Cloud Computing</b> <i>Session Chairs: Prof. Qingming ZHAN &amp; Dr. Shuo WANG</i> 10:00 – 10:20: Multi-Source Big Data Based Spatial Analysis on Cultural and Tourist Influence of Wuhan City, China by <i>Prof. Qingming ZHAN, Wuhan University, China</i> 10:20 – 10:40: SigSTMiner: Mining Interesting and Significant Sequential Patterns from Semantic Trajectories by <i>Dr. Anshu ZHANG, The Hong Kong Polytechnic University, HK</i> 10:40 – 11:00: Using Data Mining Methods to Explore the Spatial and Temporal Dynamics of Perceived Service Quality of Metro Systems: Evidence from Shenzhen by <i>Ms. Shuli LUO, The Chinese University of Hong Kong, HK</i>	Z206
	<b>10.3) Urban Remote Sensing III</b> <i>Session Chairs: Prof. Shuisen CHEN &amp; Dr. Xiaolin ZHU</i> 10:00 – 10:20: Remote Sensing Evaluation of Total Suspended Solids Dynamic under River Chief System of China: A Case Study of Drinking Water Sources Heidi Reservoir in Zhanjiang of Western Guangdong by <i>Prof. Shuisen CHEN, Guangzhou Institute of Geography, China</i> 10:20 – 10:40: Linear Spectral Mixture Analysis (LSMA) for Sub-Pixel Built-up Area (BUA) Fraction Estimation Based on MODIS and DMSP-OLS Data by <i>Ms. Xue WANG, The Chinese University of Hong Kong, HK</i> 10:40 – 11:00: A Method for Extracting Building Area from Photogrammetric DSM by Automatic Selecting Samples Using Historical DLG Data by <i>Dr. Yunsheng ZHANG, Central South University, China</i> 11:00 – 11:20: Improve Satellite Image Quality to Support Urban Studies by <i>Dr. Xiaolin ZHU, The Hong Kong Polytechnic University Kung University, HK</i>	Z204
11:20 ~	Coffee Break	

	<p><b>16.3) Urban Technologies and Principles III</b> <i>Session Chairs: Prof. Hao WU &amp; Dr. Chris Higgins</i></p> <p>11:35 – 11:55: On the Spatial Scale Effect of Modifiable Areal Unit Problem from Topology Perspective by <i>Prof. Haifeng LI, Central South University, China</i></p> <p>11:55 – 12:15: Spatial Context-based Local Toponym Extraction and Address Segmentation from Urban Point-of-Interests Data by <i>Dr. Xi KUAI, Shenzhen University, China</i></p> <p>12:15 – 12:35: Automatic Localizing and Controlling the Elevator Button Allowing Service Robot Moving Among the Floors by <i>Mr. Shenlu JIANG, The Hong Kong Polytechnic University, HK</i></p> <p>12:35 – 12:55: A 4D Spatio-Temporal Approach to Modelling Land Value Uplift from Rapid Transit in High Density and Topographically-Rich Cities by <i>Dr. Christopher Donald HIGGINS, The Hong Kong Polytechnic University, HK</i></p>	Z208
26 June(Wed)	<p><b>18) Pollution</b> <i>Session Chairs: Prof. Qingfeng GUAN &amp; Dr. Shuo WANG</i></p> <p>11:35 – 11:55: Spatio-Temporal Profiling of PM<sub>2.5</sub> Distribution through the Integration of Observations Collected by Mobile Sensors and Ground-Based Stations by <i>Prof. Yee LEUNG, The Chinese University of Hong Kong, HK</i></p> <p>11:55 – 12:15: Under the Dome: a 3D Urban Texture Model and its Relationship with Urban Land Surface Temperature by <i>Prof. Qingfeng GUAN, China University of Geoscience, China</i></p> <p>12:15 – 12:35: Solar Capacity of Three-Dimensional Cities by <i>Dr. Rui ZHU, Singapore-MIT Alliance for Research and Technology (SMART), Singapore</i></p>	Z206
11:35 - 13:35 (Parallel Sessions)	<p>12:35 – 12:55: A Multi-Scale, Web-Based Interface for Strategic Planning of Low-Carbon City Quarters by <i>Ms. Alexandra MITTELSTAEDT, University of Applied Sciences, Stuttgart, Germany</i></p> <p>12:55 – 13:15: A Machine Learning Approach to Model Spatial Variations of Daily Fine Particulate Matter (PM<sub>2.5</sub>) and Nitrogen Dioxide (NO<sub>2</sub>) Concentrations in Shanghai, China by <i>Ms Xinyi SONG, Shanghai Jiao Tong University, China</i></p> <p>13:15 – 13:35: Distribution of Air Pollution Risks from Vehicle Emission Based on High Spatio-Temporal Resolution TCI Shanghai under ANSYS Simulation by <i>Dr. Jiatian BU, Tongji University, China</i></p>	Z206
	<p><b>19) Urban Risks and Resilience</b> <i>Session Chairs: Prof. Guangcai FENG &amp; Prof. XL Ding</i></p> <p>11:35 – 11:55: Surface Deformation Monitoring of the Pearl River Delta Using TM-InSAR by <i>Prof. Guangcai FENG, Central South University, China</i></p> <p>11:55 – 12:15: An Integration of Seismic Deformation into WebGIS for Real-time Disaster Evaluation and Emergency Response by <i>Mr. Zhao RUI, The Hong Kong Polytechnic University, HK</i></p> <p>12:15 – 12:35: City's Bearing Capacity of Bottled Gas Supply Station by <i>Ms. Xin TAN, Wuhan University, China</i></p> <p>12:35 – 12:55: Online Decision-Support Infrastructure for the Integration of Spatial Planning and Flood Risk Management Policies by <i>Dr. Jing RAN, Hunan University, China</i></p> <p>12:55 – 13:15: Dynamic Estimation of Emergency Supplies Demand For Urban Flood Disaster Using Baidu Heat Map by <i>Ms. Anqi LIN, Central China Normal University, China</i></p>	Z204
13:35 – 14:00	<i>Light lunch @ 2/F, Block Z</i>	
14:00 – 14:30	<b>Awards Presentation &amp; Closing</b>	Z207
15:00 – 18:30	<p>Social Event to the Peak (register by 14:00, 24 June at registration counter)</p> <p><i>Gather at 14:45 @ outside Z207</i></p> <p><i>Coach returns at 18:30 (Arrived PolyU at around 19:15)</i></p>	

More information: <https://www.polyu.edu.hk/lsgi/icui2019/programme>