

# W2GIS 2020 PROGRAM

November 13<sup>th</sup>-14<sup>th</sup>, Wuhan City, China

**Day 1 Friday 13<sup>th</sup> November 2020 (UTC+8)**

**Paper Session (UTC+8)**

**Tencent Meeting Room ID: 985 523 210 Password: 311102 (for reporter)**

**Live room: <https://live.bilibili.com/10951964> (for participant)**

<p><b>9:25-9:30</b></p>	<p><b>Introduction of Conference reviewing process and other organisation issues</b>  <b>Prof. dr. Sergio di Martino, University of Naples Federico II, Italy</b>  <b>Prof. dr. Zhixiang Fang, Wuhan University, China</b></p>	
<p><b>9:30-12:25</b>            Session 1</p> <p><b>Chair:</b>  <b>Prof. dr. Hengcai Zhang,</b>  <b>&amp; Dr. Zhiyuan Zhao</b></p>	<p>A Social-spatial Data Approach for Analyzing the Migrant Caravan Phenomenon  <b>Roberto Zagal Flores, Migule Felix Mata, Christophe Claramunt</b></p> <p>A Mobile Trusted Path System Based on Social Network Data  <b>Miguel Felix Mata, Christophe Claramunt, Roberto Zagal, Jacobo Gonzalez Leon</b></p> <p>Inferring Secondary Activities for Mobile Phone Users based on Travel Survey Data  <b>Dan Zou, Qiuping Li</b></p> <p>Predicting Indoor Location based on a Hybrid Markov-LSTM Model  <b>Hengcai Zhang, Peixiao Wang, Sheng Wu</b></p> <p>Targeted content distribution in outdoor advertising network by learning online user behaviors  <b>Meng Huang, Zhixiang Fang, Tao Zhang</b></p> <p>Understanding Multilingual Correlation of Geo-tagged Tweets for POI Recommendation  <b>Yuanyuan Wang, Panote Siriaraya, Mohit Mittal, Huaze Xie, Yukiko Kawai</b></p> <p>A Focused Crawler for Web Feature Service and Web Map Service Discovering  <b>V ́rtor Mac ęlo Alexandrino, Giovanni Comarela, Altigran Soares da Sliva, Jugurta Lisboa-Fiho</b></p>	<p>Crowdsourcing,            Volunteered            Geographic            Information and            Social Network</p>
<p style="text-align: center;"><b>Lunch Break</b></p>		
<p><b>Tencent Meeting Room ID: 933 425 788 Password: 311102 (for reporter)</b>  <b>Live room: <a href="https://live.bilibili.com/10951964">https://live.bilibili.com/10951964</a> (for participant)</b></p>		
<p><b>14:00-15:15</b>            Session 2</p> <p><b>Chair:</b>  <b>Prof. dr. Zhixiang Fang</b></p>	<p>A Non-Cooperative Game Approach for the Dynamic Modeling of a Sailing Match Race  <b>Belaouer Lamia, Matthieu Boussard, Patrick Bot, Christophe Claramunt</b></p> <p>Maximum Gap Minimization in Polylines  <b>Toni Stankov, Sabine Storandt</b></p>	<p>Spatial Algorithms</p>

<b>&amp; Hongchu Yu</b>	Towards a modelling and optimisation of the recovery of marine floating plastic <b>Nicolas Masiov, Loic Salmon, Christophe Claramunt</b>	
<b>15:15-16:30</b> Session 3 <b>Chair:</b> <b>Prof. dr. Christophe Claramunt &amp; Fangli Guan</b>	What do we actually need during self-localization in an augmented environment? <b>Fan Yang, Zhixiang Fang, Fangli Guan</b>	Indoor/Outdoor Localization and Navigation
	How to extend IndoorGML for Points of Interest <b>Tachoon Kim, Kyoung-Sook Kim, Jiyeong Lee, Ki-Joune Li</b>	
	Crowdsourcing Trajectory Based Indoor Positioning Multisource Database Construction on Smartphones <b>Xing Zhang, Tao Liu, Qingquan Li, Zhixiang Fang</b>	
<b>Break</b>		
<b>16:30-17:45</b> Session 4 <b>Chair:</b> <b>Prof. dr. Sergio Di Martino, &amp; Associate Prof. dr. Xiping Yang</b>	Massive Spatio-Temporal Mobility Data: An Empirical Experience on Data Management Techniques <b>Sergio Di Martino, Vincenzo Norman Vitale</b>	GeoSensor Data, Smart Environments, IoT, and Ambient Spatial Intelligence
	Analyzing spatiotemporal characteristics of taxi drivers' cognition to passenger resource based on trajectory data <b>Zihao Wang, Jun Li, Yan Zhu, Zhenwei Li, Wenle Lu</b>	
	Location optimization of urban emergency medical service stations: a hierarchical multi-objective model with a new encoding method of genetic algorithm solution <b>Jiajia Song, Xiang Li, Joseph Mango</b>	
<b>Open Ceremony &amp; Keynote Speech (UTC+8)</b>		
<b>Tencent Meeting Room ID: 235 901 178 Password: 311102 (for reporter)</b> <b>Live room: <a href="https://live.bilibili.com/10951964">https://live.bilibili.com/10951964</a> (for participant)</b>		
<b>18:30-19:00</b>     <b>Chair:</b> <b>Prof. dr. Feng Lu</b>  <b>19:00-19:40</b>  <b>19:40-20:20</b>  <b>20:20-21:00</b>	<b>Open Ceremony</b>	
	<b>Welcome Speech</b> <b>Prof. dr. Bisheng Yang, Wuhan University, China</b>	
	<b>Introduction and Opening Speech</b> <b>Prof. dr. Zhixiang Fang, Wuhan University, China</b>	
	<b>Previous W2GIS events</b> <b>Prof. dr. Christophe Claramunt, Naval Academy Research Institute, France</b>	
	<b>Keynote Speech</b>	
	<i>Maritime Environment and Information Systems: Current progress and research challenges</i> <b>Prof. dr. Christophe Claramunt, Naval Academy Research Institute, France</b>	
	<i>Big Geo-data for Urbanized China: Methods and Applications</i> <b>Prof. dr. Yu Liu, Peking University, China</b>	
<i>Human-centered Space-place GIScience Framework</i> <b>Prof. dr. Shih-Lung Shaw, University of Tennessee, Knoxville, USA</b>		

**Day 2 Saturday 14<sup>th</sup> November 2020 (UTC+8)**

**Online Invited Session (UTC+8)**

**Tencent Meeting Room ID: 693 932 611 Password: 411102 (for reporter)**

**Live room: <https://live.bilibili.com/21681739> (for participant)**

<b>08:30-09:45</b>  <b>Chair:</b> <b>Prof. dr. Xiang Li</b>	A Novel Organized Evacuation Plans with Dynamic Programming Routing <b>Associate Prof. dr. Tao Xu, Henan University, China</b>
	A Hilbert Curve and Cassandra technology-based indexing and storing approach for large-scale spatiotemporal data <b>Prof. dr. Buyang Cao, Tongji University</b> <b>Prof. dr. Xiang Li, East China Normal University, China</b>
	Trajectory Data Drift Point Processing Method Based on Distance between Sampling Points and Aggregation Degree <b>Di Zhang, East China Normal University, China</b>
<b>09:45-11:00</b>  <b>Chair:</b> <b>Prof. dr. Min Deng</b> <b>Prof. dr. Yu Liu</b> <b>Research Assistant.</b> <b>Xuexi Yang</b>	Discovering situational profiles of crime occurrences using spatial association pattern mining <b>Dr. Zhanjun He, China University Of Geosciences, Wuhan, China</b>
	Extracting activity patterns from taxi trajectory data: a two-layer framework using spatio-temporal clustering, Bayesian probability and Monte Carlo simulation <b>Research Assistant. Shuhui Gong, University of Nottingham, UK</b>
	Detecting statistically significant geographical anomalous regions from spatial sampling points by coupling Gaussian function and multidirectional optimization <b>Research Assistant. Xuexi Yang, Peking University, China</b>
<b>11:00-12:15</b>  <b>Chair:</b> <b>Prof. dr. Jianping Pan</b>	Precursors of large rockslides from multi-temporal remote sensing images <b>Associate Prof. dr. Weile Li, Chengdu University of Technology, China</b>
	Research on Multi-scale Highway Risk Prediction and Assessment in Banan District <b>Prof. dr. Fengyun Mu, Chongqing Jiaotong University, China</b>
	Registration of multi-scan forest terrestrial laser scanning data integrated with smartphone <b>Dr. Maolin Chen, Chongqing Jiaotong University, China</b>

**Close Ceremony Session (UTC+8)**

**Tencent Meeting Room ID: 364 402 736 Password: 411102 (for reporter)**

**Live room: <https://live.bilibili.com/10951964> (for participant)**

<b>14:30-15:30</b>	<b>Thanks Speaking</b> <b>Prof. dr. Zhixiang Fang, Wuhan University, China</b>
	<b>Paper Award</b> <b>Prof. dr. Sergio di Martino, University of Naples Federico II, Italy</b>
	<b>The Next Event</b> <b>Konstanz Event- Prof. Sabine Storandt</b> <b>Prof. dr. Christophe Claramunt, Naval Academy Research Institute, France</b> <b>&amp; Prof. dr. Sergio di Martino, University of Naples Federico II, Italy</b>

**Physical Invited Session (UTC+8)**

**Tencent Meeting Room ID: 312 782 759 Password: 411102**

**Live room: <https://live.bilibili.com/10951964> (for participant)**

<b>8:30-8:55</b>	位置感知与泛在位置信息叠加技术 李霖教授, 武汉大学 Location Perception and Ubiquitous Location Information Superposition <b>Prof. dr. Lin Li, Wuhan University, China</b>	<b>Spatial Algorithm and Application</b>  <b>Chair:</b> <b>Prof. dr. Jun Li</b>
<b>8:55-9:20</b>	基于格网计算的城市流分析框架: 方法与应用 李军教授, 中国矿业大学(北京) Urban flow analysis framework based on grid-code computing: methods and applications <b>Prof. dr. Jun Li, China University of Mining &amp; Technology, Beijing, China</b>	
<b>9:20-9:45</b>	基于质心 Voronoi 图的全球地形自适应建模 王磊博士, 河南理工大学 Adaptive Modeling of Global Terrain based on Spherical Centroidal Voronoi Tessellation <b>Dr. Lei Wang, Henan Polytechnic University, China</b>	
<b>9:45-10:10</b>	基于支持地块动态分裂的矢量 CA 模型的地块级城市土地利用模拟 姚尧副教授, 中国地质大学(武汉) Splitting land parcels to simulate realistic urban land-use changes at a large scale by using vector-based cellular automata <b>Associate Prof. dr. Yao Yao, China University Of Geosciences, Wuhan, China</b>	
<b>10:10-10:35</b>	概率时间地理计算 尹章才教授, 武汉理工大学 Calculation of probabilistic time geography <b>Prof. dr. Zhangcai Yin, Wuhan University of Technology, China</b>	
<b>Break 15mins</b>		
<b>10:50-11:15</b>	以为防灾应急为目标的地震压埋人员空间分布和定位研究问题探讨 肖东升教授, 西南石油大学 Discussion on spatial distribution and location of earthquake buried personnel aiming at disaster prevention and emergency <b>Prof. dr. Dongsheng Xiao, Southwest Petroleum University, China</b>	<b>Urban Disaster Analysis, Early Warning and Emergency Response</b>  <b>Chair:</b> <b>Prof. dr. Jinghai Xu</b>
<b>11:15-11:40</b>	应急灾害制图 任福教授, 武汉大学 Cartography for Emergency Disaster Services <b>Prof. dr. Fu Ren, Wuhan University, China</b>	
<b>11:40-12:05</b>	基于机器学习方法的灾害情景构建与分析 赵前胜副教授, 武汉大学 Disaster scenario construction and analysis based on machine learning <b>Associate Prof. dr. Qiansheng Zhao, Wuhan University, China</b>	
<b>12:05-12:30</b>	建筑结构安全智慧诊断技术研究 徐敬海教授, 南京工业大学 Smart Monitoring and Diagnosing Building Structural Health Based on Sensor Network <b>Prof. dr. Jinghai Xu, Nanjing Tech University, China</b>	

<b>Lunch Break</b>		
<b>Tencent Meeting Room ID: 650 705 371 Password: 411102 (for reporter)</b> <b>Live room: <a href="https://live.bilibili.com/10951964">https://live.bilibili.com/10951964</a> (for participant)</b>		
<b>14:00-14:25</b>	利用夜光遥感挖掘城市经济信息 李 畅 教授, 华中师范大学 Mining urban economic information by night light remote sensing <b>Prof. dr. Chang Li, Central China Normal University, China</b>	Smart Sensing and Spatial Analysis  <b>Chair:</b> <b>Prof. dr. Chang Li</b>
<b>14:25-14:50</b>	绿地景观能否影响城市房租? 基于房租广告的语义和情感分析 苏世亮 教授, 武汉大学 Do landscape amenities impact private housing rental prices? A hedonic modeling approach based on semantic and sentimental analysis of online housing advertisements across five Chinese megacities <b>Prof. dr. Shiliang Su, Wuhan University, China</b>	
<b>14:50-15:15</b>	重大事件前后的海洋运输网络动态的研究 余红楚 博士, 南京信息工程大学 Maritime network dynamics before and after international events <b>Dr. Hongchu Yu, Nanjing University of Information Science &amp; technology, China</b>	
<b>Break 15mins</b>		
<b>15:30-15:55</b>	基于手机大数据的个体可达性研究 陈碧宇 教授, 武汉大学 Individual accessibility studies using massive mobile phone data <b>Prof. dr. Biyu Chen, Wuhan University, China</b>	Spatial-Temporal Data Management and Mining  <b>Chair:</b> <b>Prof. dr. Biyu Chen &amp; Associate Prof. dr. Wei Tu</b>
<b>15:55-16:20</b>	利用轨迹大数据分析出行模式与电动化潜力 涂 伟 副教授, 深圳大学 Understanding mobility pattern and electric vehicle acceptance of ride-hailing drivers using massive vehicle trajectories <b>Associate Prof. dr. Wei Tu, Shenzhen University, China</b>	
<b>16:20-16:45</b>	基于手机数据的城市居民出行行为特征分析:以西安市为例 杨喜平 副教授, 陕西师范大学 Exploring the characteristics of urban human mobility using mobile phone data: A case study of Xining <b>Associate Prof. dr. Xiping Yang, Shaanxi Normal University, China</b>	
<b>16:45-17:10</b>	基于地铁刷卡大数据的个体职住活动模式差异性探索与分析 周 洋 博士, 华中师范大学 Exploring variability in individual home-work activity patterns using smart card data <b>Dr. Yang Zhou, Central China Normal University, China</b>	
<b>17:10-17:35</b>	顾及用户轨迹相似性特征的 LSTM+GCN 个体位置预测算法——以手机数据为例 赵志远 博士, 福州大学 A location prediction algorithm based on LSTM+GCN by considering the inter-user similarity of trajectories: A case study of using mobile phone location data <b>Dr. Zhiyuan Zhao, Fuzhou University, China</b>	

Note 1:

The online meeting room is only accessible to reporters and staff:

Please download the Tencent Meeting software by the following link:

<https://intl.cloud.tencent.com/product/tvm?lang=en&pg=>

Note 2: Live broadcast platform of W2GIS for participant – bilibili

Please click the link below to enter the live room:

<https://live.bilibili.com/10951964>

<https://live.bilibili.com/21681739>

Or scan the QR-code:

