# W2GIS 2020 PROGRAM

**November 13th-14th, Wuhan City, China**

## Day 1 Friday 13th November 2020 (UTC+8)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Speaker(s)</th>
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</table>
| 9:25-9:30 | Paper Session                                                          | Introduction of Conference reviewing process and other organisation issues | Prof. dr. Sergio di Martino, University of Naples Federico II, Italy  
Prof. dr. Zhixiang Fang, Wuhan University, China |
| 9:30-12:25 | Session 1                                                            | A Social-spatial Data Approach for Analyzing the Migrant Caravan Phenomenon | Roberto Zagal Flores, Migule Felix Mata, Christophe Claramunt |
|         |                                                                      | A Mobile Trusted Path System Based on Social Network Data          | Miguel Felix Mata, Christophe Claramunt, Roberto Zagal, Jacobo Gonzalez Leon |
|         |                                                                      | Inferring Secondary Activities for Mobile Phone Users based on Travel Survey Data | Dan Zou, Qiuping Li |
|         |                                                                      | Predicting Indoor Location based on a Hybrid Markov-LSTM Model     | Hengcai Zhang, Peixiao Wang, Sheng Wu |
|         |                                                                      | Targeted content distribution in outdoor advertising network by learning online user behaviors | Meng Huang, Zhixiang Fang, Tao Zhang |
|         |                                                                      | Understanding Multilingual Correlation of Geo-tagged Tweets for POI Recommendation | Yuanyuan Wang, Panote Siriaraya, Mohit Mittal, Huaze Xie, Yukiko Kawai |
|         |                                                                      | A Focused Crawler for Web Feature Service and Web Map Service Discovering | Víctor Macêdo Alexandrino, Giovanni Comarela, Altigran Soares da Sliva, Jugurta Lísboa-Fiho |

### Lunch Break

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<tr>
<th>Time</th>
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<th>Topic</th>
<th>Speaker(s)</th>
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<tr>
<td>14:00-15:15</td>
<td>Paper Session</td>
<td>A Non-Cooperative Game Approach for the Dynamic Modeling of a Sailing Match Race</td>
<td>Belaouer Lamia, Matthieu Boussard, Patrick Bot, Christophe Claramunt</td>
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<tr>
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<td>Maximum Gap Minimization in Polylines</td>
<td>Toni Stankov, Sabine Storandt</td>
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**Tencent Meeting Room ID:** 985 523 210  
**Password:** 311102 (for reporter)  
**Live room:** [https://live.bilibili.com/10951964](https://live.bilibili.com/10951964) (for participant)
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<th>Time</th>
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<th>Chair</th>
<th>Panelists</th>
<th>Topic</th>
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<tbody>
<tr>
<td>15:15-16:30</td>
<td>3</td>
<td>Nicolas Masiov, Loic Salmon, Christophe Claramunt &amp; Fangli Guan</td>
<td>What do we actually need during self-localization in an augmented environment?</td>
<td>Towards a modelling and optimisation of the recovery of marine floating plastic</td>
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<tr>
<td>16:30-17:45</td>
<td>4</td>
<td>Sergio Di Martino, Vincenzo Norman Vitale</td>
<td>Massive Spatio-Temporal Mobility Data: An Empirical Experience on Data Management Techniques</td>
<td>Analyzing spatiotemppral characteristics of taxi drivers’ cognition to passenger resource based on trajectory data</td>
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<tr>
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<td></td>
<td>Zhihao Wang, Jun Li, Yan Zhu, Zhenwei Li, Wenle Lu</td>
<td>Location optimization of urban emergency medical service stations: a hierarchical multi-objective model with a new encoding method of genetic algorithm solution</td>
<td>Crowdsourcing Trajectory Based Indoor Positioning Multisource Database Construction on Smartphones</td>
</tr>
<tr>
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<td>Jiajia Song, Xiang Li, Joseph Mango</td>
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<td>Fan Yang, Zhixiang Fang, Fangli Guan</td>
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**Break**

**Open Ceremony & Keynote Speech**

- Tencent Meeting Room ID: 235 901 178 Password: 311102 (for reporter)
- Live room: https://live.bilibili.com/10951964 (for participant)

**Open Ceremony**

- Welcome Speech
  - Prof. dr. Bisheng Yang, Wuhan University, China

- Introduction and Opening Speech
  - Prof. dr. Zhixiang Fang, Wuhan University, China

- Previous W2GIS events
  - Prof. dr. Christophe Claramunt, Naval Academy Research Institute, France

**Keynote Speech**

- Maritime Environment and Information Systems: Current progress and research challenges
  - Prof. dr. Christophe Claramunt, Naval Academy Research Institute, France

- Big Geo-data for Urbanized China: Methods and Applications
  - Prof. dr. Yu Liu, Peking University, China

- Human-centered Space-place GIScience Framework
  - Prof. dr. Shih-Lung Shaw, University of Tennessee, Knoxville, USA
# Day 2 Saturday 14\textsuperscript{th} 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](https://live.bilibili.com/21681739) (for participant)

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

## Close Ceremony Session (UTC+8)

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

Live room: [https://live.bilibili.com/10951964](https://live.bilibili.com/10951964) (for participant)

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<tr>
<th>Time</th>
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| 14:30-15:30| **Thanks Speaking**  
**Scientific:** Prof. dr. Zhixiang Fang, Wuhan University, China  
**Scientific:** Paper Award  
**Scientific:** Prof. dr. Sergio di Martino, University of Naples Federico II, Italy  
**Scientific:** The Next Event  
**Scientific:** Konstanz Event- Prof. Sabine Storandt  
**Scientific:** Prof. dr. Christophe Claramunt, Naval Academy Research Institute, France  
**Scientific:** Prof. dr. Sergio di Martino, University of Naples Federico II, Italy  |
<table>
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<tr>
<th>Time</th>
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</table>
| 8:30-8:55 | 位置感知与泛在位置信息叠加技术  \nLocation Perception and Ubiquitous Location Information Superposition  
Prof. dr. Lin Li, Wuhan University, China |
| 8:55-9:20 | 基于格网计算的城市流分析框架: 方法与应用  
Urban flow analysis framework based on grid-code computing: methods and applications  
Prof. dr. Jun Li, China University of Mining & Technology, Beijing, China |
| 9:20-9:45 | 基于质心 Voronoi 图的全球地形自适应建模  
Adaptive Modeling of Global Terrain based on Spherical Centroidal Voronoi Tessellation  
Dr. Lei Wang, Henan Polytechnic University, China |
| 9:45-10:10 | 基于支持块地动态分裂的矢量 CA 模型的地块级城市土地利用模拟  
Splitting land parcels to simulate realistic urban land-use changes at a large scale by using vector-based cellular automata  
Associate Prof. dr. Yao Yao, China University Of Geosciences, Wuhan, China |
| 10:10-10:35 | 概率时间地理计算  
Calculation of probabilistic time geography  
Prof. dr. Zhangceai Yin, Wuhan University of Technology, China |
| 10:50-11:15 | 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  
Discussion on spatial distribution and location of earthquake buried personnel aiming at disaster prevention and emergency  
Prof. dr. Dongsheng Xiao, Southwest Petroleum University, China |
| 11:15-11:40 | 应急灾害制图  
Cartography for Emergency Disaster Services  
Prof. dr. Fu Ren, Wuhan University, China |
| 11:40-12:05 | 基于机器学习方法的灾害情景构建与分析  
Disaster scenario construction and analysis based on machine learning  
Associate Prof. dr. Qiansheng Zhao, Wuhan University, China |
| 12:05-12:30 | 建筑结构安全智慧诊断技术研究  
Smart Monitoring and Diagnosing Building Structural Health Based on Sensor Network  
Prof. dr. Jinghai Xu, Nanjing Tech University, China |
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<tr>
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<tr>
<td>14:00-14:25</td>
<td>Lunch Break</td>
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<tr>
<td>14:25-14:50</td>
<td>Mining urban economic information by night light remote sensing</td>
<td>Prof. dr. Chang Li, Central China Normal University, China</td>
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<tr>
<td>14:50-15:15</td>
<td>Do landscape amenities impact private housing rental prices?</td>
<td>Prof. dr. Shiliang Su, Wuhan University, China</td>
<td>Chair: Prof. dr. Chang Li</td>
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<tr>
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<td>A hedonic modeling approach based on semantic and sentimental analysis of online housing advertisements across five Chinese megacities</td>
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<td>Maritime network dynamics before and after international events</td>
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<td>Dr. Hongchu Yu, Nanjing University of Information Science &amp; Technology, China</td>
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<td>15:30-15:55</td>
<td>Based on mobile data, individual accessibility studies using massive mobile phone data</td>
<td>Prof. dr. Biyu Chen, Wuhan University, China</td>
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<td>15:55-16:20</td>
<td>Understanding mobility pattern and electric vehicle acceptance of ride-hailing drivers using massive vehicle trajectories</td>
<td>Associate Prof. dr. Wei Tu, Shenzhen University, China</td>
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<tr>
<td>16:20-16:45</td>
<td>Exploring the characteristics of urban human mobility using mobile phone data</td>
<td>Associate Prof. dr. Xiping Yang, Shaanxi Normal University, China</td>
<td>Chair: Prof. dr. Biyu Chen &amp; Associate Prof. dr. Wei Tu</td>
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<td>16:45-17:10</td>
<td>Exploring variability in individual home-work activity patterns using smart card data</td>
<td>Dr. Yang Zhou, Central China Normal University, China</td>
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<td>17:10-17:35</td>
<td>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</td>
<td>Dr. Zhiyuan Zhao, Fuzhou University, China</td>
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Note 1:
The online meeting room is only accessible to reporters and staff:
Please download the Tencent Meeting software by the following link:

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: