International Symposium on Location-Based Social Media and Tracking Data

July 1-2, 2017, Washington DC, USA

Preliminary Program

July 1, 2017	
13:30 – 13:40	**Welcome**
13:40 -15:20	**Session 1 Theories and Data Models** Session chair:
	Bin Jiang , University of Gävle, Sweden *A Topological Representation for Predicting Human Activities using Big Data* Haiyun Ye and Keith Clarke *Spatial, Temporal, and Thematic Structure of Volunteered Geographic Information in Social Media Following Different Catastrophic Events* Thomas Gründemann and Dirk Burghardt *Event-Oriented Taxonomy of Users in Location Based Social Networks* Paul Goodhue and Ioannis Delikostidis *Modelling Information Quality and Source Reliability to Improve the Trust Of Volunteered Geographic Information*
15:20 – 15:50	**Coffee break**
15:50 – 17:55	**Session 2. Participation and User Tasks** Session Chair:
	Hua Liao and Weihua Dong Identifying User Tasks in Map-based Pedestrian Navigation from Eye Tracking Data Matthew Tenney, G, B. Hall and Renee Sieber *Machines Learning to Engage: Citizens' Geosocial Media to City Participation* Ayberk Kocatepe, Mehmet Baran Ulak Ulak, Javier Lores, Eren Erman Ozguven and Anil Yazici *Assessing the Factors that Affect the Public Engagement with Department of Transportation Twitter Accounts* Jayakrishnan Ajayakumar *Spatio-temporal analysis of public response through Social media during extreme events* Marcela Suarez and Keith Clarke

	Leveraging Spatio-Temporal Information to Enrich Thematic Clustering of Twitter Posts
18: 30 – as your wish	**Optional Group Dinner (at one's own expense)**
July 2nd, 2017	
8**:30 – 10:10**	**Session 3. Traffic Modelling** Session chair:
	Yi Cheng, Haosheng Huang, Oliver Burkhard and Robert Weibel *Does Considering the Underlying Geographic Context Help to Improve the Accuracy of Passenger Flow Forecasting? A Case Study with Spatially-Extended Graph Neural Network and Location-Based Passenger Counting Data* Hai-Ping Zhang, Guo-An Tang, Li-Yang Xiong and Xing-Xing Zhou *Big data analysis for resident mobility characteristics by using multi-source urban traffic tracking data* Andreas Keler, Jukka Krisp and Linfang Ding *Towards detecting travel-mode- and commuter-specific destination hotspots – comparing the boro taxi service with Citi Bike in NYC* Qiulei Guo and Hassan Karimi *Human Mobility Prediction Through Trajectory Distribution Simulation*
10:10 – 10:40	**Coffee Break**
10:40 – 12:20	**Session 4. Analyzing Human Dynamics** Session Chair:
	Caglar Koylu *Integrating Topic Modeling and Network Smoothing to Uncover Space-Time Semantics of Interpersonal Communication: An Analysis Of Twitter User Mentions* Xuebin Wei and Xiaobai Yao *Analyzing Human Activities in Spatial-Social Dimension* Robert Olszewski *Digital Agora – Using Spatial Data Mining Algorithms to Process Geographic Information and Social Media Data* Hyunwoo Hwangbo, Jonghyuk Kim and Soyean Kim *Customer Movement Pattern Analysis Using Location-Based*

12:20 – 14:00	**Lunch Break**
14:00 - 15:40	**Session 5. Research Applications Using Location-based Big Data** Session Chair:
	Jie Shen, Mi Wan, Haosheng Huang, Kaiyue Zang and Yiqiu Tan *Assessing and Mapping of Road Surface Roughness based on GPS and Accelerometer Sensors on Bicycle-Mounted Smartphone* Huina Mao, Gautam Thakur, Kevin Sparks, Jibonananda Sanyal and Budhendra Bhaduri *Mapping Real-time Power Outage from Social Media* Lei Zou, Nina Lam, Heng Cai and Yi Qiang *Visualizing and Mining Social Media Data for Improved Understanding of Disaster Resilience* Haibo Ma, Manman Wang, Zhijun Gao and Di Wang *Location Analysis of Terminal Logistics Distribution Center Based On Geographic Spatial Suitability*
15:40-16:10	**Coffee Break**
16:10-17:50	**Session 6. Understanding Places with Location-based Big Data** Session Chair:
	Rui Zhu, Krzysztof Janowicz and Song Gao *Quantifying the Attractiveness of Destinations for Modeling Travel Patterns Using Location-Based Social Media Data* Morteza Tayebi and Farid Karimipour *Recognizing Social Land Use by Clustering Temporal Variations of Users' Activities in Location-based Social Networks* Yingjie Hu, Huina Mao and Grant McKenzie *A NLP and Geospatial Workflow for Harvesting Local Place Names from Geotagged Social Web* Myeong Lee, Grant McKenzie and Rajat Aghi *Exploratory Cluster Analysis of Urban Mobility Patterns to Identify Neighborhood Boundaries*
17:50 – 18:00	**Closing**