International Symposium on Location-Based Big Data 2019 (LocBigData 2019)

A pre-conference Symposium of ICC 2019, Tokyo, Japan

http://lbs.icaci.org/locbigdata/

15 July 2019, Co-organized by
The ICA Commissions on Location-Based Services and Geospatial Analysis and Modelling

Background

The increasing use of location-based services, as well as the growing ubiquity of location/activity sensing technologies have led to a huge amount of location-based big data (LocBigData), such as tracking or sensing data (e.g., massive GPS trajectories of people and vehicles, and georeferenced mobile phone data), social media data (e.g., twitter), and crowdsourced geographic information. The growing availability of such location-based big data have created unprecedented opportunities for researchers from various disciplines. At the same time, it also challenges us with new theoretical, technical, ethical and social questions. This symposium will offer a common ground for researchers from various fields and perspectives to share ideas and research findings, and to discuss the open challenges and future research direction on location-based big data.

This is a pre-conference symposium associated with ICC 2019, and a follow-up of the successful previous conferences of ICLSM 2015 and LSMTD 2017.

Topics of Interest (but not limited to)

Theories and foundations of location-based big data
- Novel theoretical models of LocBigData
- Scalability issues
- Data quality and representativeness
- Privacy and ethical issues

Acquisition and management of location-based big data
- Crowdsourcing
- Internet of things
- Big data management
- Data cleaning and integration

Analytics for location-based big data
- Spatio-temporal data mining
- Big data analytics and machine learning
- Geovisualization and visual analytics
- Computational mobility and activity analysis

Applications of location-based big data
- Modelling and predicting human spatial behavior and activity
- Place modelling and understanding
- Smart cities, transportation
- Healthcare
- Autonomous cars and artificial intelligence

Submissions

You are invited to submit work-in-progress or position papers with a length of 600-1200 words according to the guideline at the symposium. All submissions will be peer reviewed. If accepted, at least one of the authors must attend the symposium to present the work. Authors of selected short papers will be invited to submit full papers for consideration in a special issue at an international journal. More details will follow.

Important Dates

Short papers Due: February 15, 2019
Acceptance notification: March 30, 2019
Full Papers for special issue: September 15, 2019