

Call for Papers
Social networks, big data and transportation system analysis
Workshop for IEEE ITSC 2015

Title: Mapping the landscape of social network and big data for transportation systems analysis

Format: half-day workshop (talks may be (i) accompanied by full paper, which will be included in the conference proceedings, if accepted after submission for review via the conference system <http://itsc2015.exordo.com/>, or (ii) not accompanied by a paper, after submission of abstract - by email to the Workshop organizers)

Organizers:

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Abstract:

Data collection for transportation applications has moved in the last decades from a limited pool of traffic surveillance technologies and travel surveys to a wealth of high volume heterogeneous, opportunistic data. Being a particularly rich dataset about human behavior, the Internet has brought us several new angles to analyse. It comprises social networks, institutional, private and personal websites, crowdsourced content, and multi-platform mobility services (e.g. waze). A large number of researchers with different backgrounds have used such data to approach transportation application problems from different perspectives, resulting in a large number of potential solutions to the same problems. The objective of this workshop is to contribute towards the organization and structured mapping of this landscape, in an effort to consolidate existing data and techniques and suggest the most promising future avenues to pursue. Researchers from different backgrounds will present their views and there will be ample time for the exchange of ideas, in response to the presented material.

List of topics:

- Social network information for inference of travel behavior
- Mobility pattern recognition by Social/Public data
- Mining internet for contextual data about travel behavior

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- Internet big data analysis for anomaly/extreme events detection and prediction
- Using social networks to map urban structures
- Supplementing traffic information with social media information
- Application of heterogeneous data in traffic applications
- Natural language processing technologies for transportation applications
- Sentiment analysis and opinion mining in demand modeling

Submission procedure (for those submitting a full paper for review and inclusion in the conference proceedings and IEEEExplore):

Go to <http://itsc2015.exordo.com/>, proceed to 'Submit a Paper' -> '1. Step Track' -> 'Industry Track & Workshop Papers'

Important dates:

- Notification of interest to participate in the workshop: ASAP and certainly within April 2015
- Submission of full paper: May 15, 2015 (hard deadline)
- Submission of revised/camera-ready paper (for accepted papers): July 1, 2015
- Conference: September 15 to 18, 2015