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Technical Committee on:

" Social Transportation"

TC Report

2017

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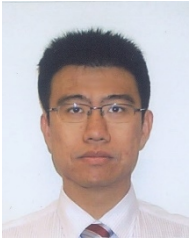

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Organized Events and Activities

1. Conferences

Year	Conference name	Organizers & functions
2017	The Ninth Chinese Conference on Social Computing (www.caa.org.cn)	Chinese Association of Automation

2. Workshops and Tutorials

Year	Workshop/tutorial title	At Conference	Organizers (TC members)	Participants (estimated #)
2017	Transportation 5.0	ITSC 2017	Dr. Yisheng Lv Dr. Xiao Wang	200

3. Organized Sessions

Year	Invited/special technical session title	Conference Host	Organizers/ Moderator

4. Special Issues in Journals or Editor of Other Publications

Year	Title	Journal	Editor
2017	A traffic sensing and analyzing system using social media data	Acta Automatica Sinica	Prof. Fei-Yue Wang

5. Book and Book chapters

Year	Title	Journal/ Publisher	Editors or Guest-Editors
2017	Data, Methods, and Applications of Traffic Source Prediction	Springer	Prof. Satish Ukkusuri Prof. Chao Yang

6. Competitions

Year	Title	Object	Organizer

7. Other Activities

Practical application of social transportation techniques:

Social media data, which encapsulate abundant traffic status information, have gradually become an important data source for sensing traffic status. The information is recorded by human language, and contains a large amount of causality analysis and multi-angle descriptions of traffic condition, acting as a powerful supplement to traditional traffic information collecting methods. Employing Sina Weibo as a main data source, we apply SVM algorithm, CRF algorithm and events extracting model to the classification, named entity recognition and events extraction of microblogs. We developed a traffic sensing and visualizing system, which can collect public opinion, situations, scales and even origins of traffic incidents for transportation agency. Furthermore, this system can provide traffic information for transportation department in the areas which are lack of traffic detectors.

The traffic information collecting system based on social media message data is going to be put into practice in Shenzhen (a major city of China) this year. Figure 1 is a snapshot of the social transportation information collecting system that will be implemented in Shenzhen.

Figure 1. A snapshot of the social transportation information system

CALL FOR VOLUNTEERS:

Please, make a list of available positions for volunteers for the organization of the technical activities of this TC

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