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Special Session

Fighting Traffic Congestion: China's Experiences and Lessons in ITS 讲中国的故事，给世界听！

Due to rapid urbanization, the major cities of China are experiencing unprecedented traffic congestion, causing substantial economic losses and environment pollution. Reports show that the average speed in the major cities of China is only 11~30 km/h in peak hours; The traffic congestion produces over 40 million tons of tailpipe emissions annually and causes the economic losses equivalent to 5%~7% of total gross domestic product.

To mitigate the severe problem, the China government has taken huge efforts, such as the tremendous investment on railway infrastructure and subsidies on public transportation to encourage trips of mass transit. However, the issue of traffic congestion is far from being addressed. The recent economic development and advances in technology in China brings both challenges and potentials for reducing traffic congestion. On one hand, the wide adoption of electronic bicycles makes the traffic highly mixed than ever before; the increasing vehicle ownership increases the traffic demand substantially and brings a large number of new drivers, which add new dimensions of challenges to address the congestion issue. On the other hand, the popularity of ridesharing and bicycle-sharing, the development of subway systems, and the increasing availability of large scale traffic data may provide new solution methods to reduce the traffic load.

This special session seeks to understand the issues and challenges associated with **traffic problems in China**, and to discuss the novel and creative ideas that can leverage the advantages of emerging ITS technologies to mitigate the traffic problems in China. The research topics include but not restrict to

- Case studies for mitigating traffic congestion in China
- Spatial and temporal patterns of the multi-modal transportation system
- System planning of the car and bike sharing systems in China
- Large scale urban traffic congestion prediction and visualization
- Optimal road infrastructure deployment to enhance network capacity
- Advanced travel demand management with emerging ITS technology

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Important Dates

- Papers Submission Deadline April 15, 2018
- Acceptance Decision Letters Sending July 02, 2018
- Conference Dates November 04-07, 2018

For more information and paper submission, visit <https://www.ieee-itsc2018.org/>