

数学与系统科学研究院

计算数学所学术报告

报告人: 周学松 教授

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报告题目:

**Problem Decomposition based on an
Alternating Direction Method of
Multiplier framework Applications in
Transportation Systems Optimization**

邀请人: 袁亚湘 院士

报告时间: 2018 年 12 月 26 日(周三)

下午 16:00-17:00

报告地点: 科技综合楼三层

311 报告厅

Abstract:

Beijing is a mega-city with an enormous population, large traffic volume and complicated traffic network. It is an important problem to address the congestion issue and improve the quality of public transportation. With the development of advanced technologies, such as big data and artificial intelligence, there are new opportunities for researchers to handle the corresponding issues. Dr. Xuesong Zhou's team cooperated with many universities and research institutes to tackle difficult traffic problems. This presentation contains their recent research about the applications of an Alternating Direction Method of Multiplier (ADMM) based framework in transportation systems optimization. They aim to apply the ADMM based framework to construct an interconnected, collaborative and efficient modern intelligent transportation service computing platform, and further optimize and coordinate the integrated transportation service network.

Bio:

Xuesong Zhou is serving as the invited Chief Scientist of Beijing Municipal Commission of Transport, an Associate Professor of Transportation Systems in the School of Sustainable Engineering and the Built Environment at Arizona State University (ASU). Dr. Zhou is currently an Associate Editor of Transportation Research Part C, an Associate Executive Editor-in-Chief of Urban Rail Transit, an Associate Editor of Networks and Spatial Economics, an Editorial Board Member of Transportation Research Part B. He was the formal Chair of INFORMS Rail Application Section (2016), and the Co-Chair of the IEEE ITS Society Technical Committee on Traffic and Travel Management, as well as a subcommittee chair of the TRB Committee on Transportation Network Modeling (ADB30). Dr. Zhou's research work focuses on dynamic traffic assignment, traffic estimation and prediction, large-scale routing and rail scheduling. He has published more than 50 papers with an H-index of 30.

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