COTA's Special Forum on Traffic Signal Control (COTA 交通信号控制专场)

Opening: (8:30 – 8:40): 田宗忠, University of Nevada, Reno

Session 1 （8:40 - 10:20）: Practical-Oriented Traffic Signal Control Theories (分会一: 面向解决实际信号控制问题的理论探讨) – 李克平主持, 同济大学

1. **Fill the Enlarging Gap between Traffic Signal Research and Practice: Theories, Modeling and Computing (填补交通信号控制研究与实践的鸿沟：理论，模型，和计算)**, 李鹏飞, Mississippi State University, USA.

2. **Progression Optimization Considering Vehicular Origin and Destination Information (考虑 OD 信息的信号协调优化）**, 谢远长, University of Massachusetts, Lowell, USA.

3. **Energy-Optimal Signal Control for Electric Vehicles under V2X Environment (车路协同环境下电动车辆能耗最优的信号控制)**, 吴新开, California State University, Pomona (加洲洲立大学)和北京航空航天大学.

4. **Optimization of Vehicle and Pedestrian Signals at Isolated Intersections（交叉口车辆与行人配时优化）**, 马万经, 同济大学。

Break: (10:20 – 10:40)

Session 2 (10:40 – 12:20): Sharing the Successful Stories and Experiences of Signal Control Practices (分会二： 来自现场实践人员的成功与经验分享) –刘伟主持, 重庆交通大学

1. **Traffic Signal Management Service in China - Mode and Simple Cases（中国信号配时可行服务模式与实例）**, 陈宁宁， 广东振业优控技术有限公司。

2. **Interpretation of the Key Codes for Intersection Signal Control – The Case of Anhui Province (安徽省城市道路交叉口信号控制设计规范要点解读)**, 李克平，同济大学

3. **Multi-source Data Based Arterial Signal Coordination Performance Evaluation (多源数据下干线信号协调评价方法)**, 王奥博, University of Nevada, Reno, USA。

4. **Sharing the Experience of Signal Control Applications in City of Shanghai (上海信号控制系统应用经验分享)**, 韩如文，上海交警总队。

Lunch (12:20 – 14:00)

Session 3 (14:00 – 16:00): New Technologies and Techniques for Improving Signal Control Practice (分会三: 推动信号控制实践的新科技和技术) – 李瑞敏主持, 清华大学

1. **Comparison of Adaptive Signal Control Systems (**国内外自适应系统分析，对比和应用），张福生，北方工业大学 **(North China University of Technology).**

2. **Present and Prospect – What AI (Artificial Intelligence) does for the Signal Optimization (**人工智能现在和未来在信号配时优化上的应用)，严孙荣, **Baidu Map Open Platform Department of Smart Transportation.**

3. **Traffic Signal Optimization with Didi's Vehicle Trajectory Data (**基于滴滴车辆运行轨迹的信号配时优化)，**Henry Liu (**刘向宏**), University of Michigan.**

4. **Traffic Signal Control Strategies and Benefits at Connected Vehicle Arterials (**车联网干道信号控制策略及效益), 章力， **Mississippi State University.**

5. **How Can Connected Vehicles Improve Urban Traffic Signal Control (**车联网如何改善城市信号控制)？邱志军， **University of Alberta, Canada**。

Session 4 (16:00 – 17:30): Roundtable Discussions (圆桌讨论) – 田宗忠主持 (初步)

1. 李克平，刘向宏，张福生，王小刚，谢少平，戴高，韩如为，严孙荣