

# LEI YU, Ph.D., P.E.

## Dean and Professor

College of Science, Engineering and Technology, Texas Southern University, Houston, USA

## Contact

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## EDUCATION

- Ph.D. Degree in Civil Engineering Specialized in Traffic/Transportation Systems Engineering, Queen's University, Kingston, Ontario, Canada, 1991-1994.

Dissertation: "A Mathematical Programming Based Approach to Macroscopic Traffic Assignment in a Dynamic Network with Queues." Supervisor: Dr. Michel Van Aerde.

- M.S. Degree in Production and Systems Engineering (Industrial Engineering), Nagoya Institute of Technology, Nagoya, Japan, 1986-1988.

Thesis: "Optimal Signal Settings of Road Networks." Supervisor: Dr. Katsuhisa Ohno.

- B.Eng. Degree in Transportation Management Engineering, Beijing Jiaotong University (Former Northern Jiaotong University), Beijing, China, 1980-1984.

## AREAS OF RESEARCH INTERESTS

- Transportation Emission Modeling and Air Quality Assessment
- Traffic Simulation for Urban Traffic Networks
- Transportation Security Evaluation and Technologies
- ITS Related Technologies and Applications
- Travel Demand Forecasting and Modeling

## EMPLOYMENT HISTORY

### Texas Southern University, Houston, Texas

- Dean (2009-Present), College of Science, Engineering and Technology
- Chair (2005-2009), Department of Transportation Studies
- Interim Chair (2004-2005), Department of Transportation Studies
- Chair (1998-2004), Department of Transportation Studies
- Interim Chair (1997-1998), Department of Transportation Studies
- Professor (2002 -Present), Department of Transportation Studies
- Tenure (1999 -Present), Department of Transportation Studies

- Associate Professor (1996 -2002), Department of Transportation Studies
- Assistant Professor (1994 -1996), Department of Transportation Studies

## **FUNDED PROJECTS**

### **Funded Projects at Texas Southern University**

1. CO-PI: Transportation and Economic Impact of Texas Shortline Railroads (PI: Dr. Fengxiang Qiao, TxDOT 0-6887, \$297,252, 2015-2017).
2. CO-PI: Buffer Zones/Infill Development – Environmental and Public Health Effects of Traffic Congestion and Increased Vehicle Emissions Triggered by Infill Development (PI: Dr. Fengxiang Qiao, TxDOT 14-3, \$131,205, 2014-2015).
3. PI at TSU: Quantification of the Impact of a Road’s Condition on Emissions (TxDOT 0-6808, Total Project Budget \$288,879, 2013-2016, UTEP Lead, TSU: \$120,000).
4. PI at TSU (CO-PI: Fengxiang Qiao): Tier One National University Transportation Center, TransLIVE, Transportation for Livability by Integrating Vehicles and Environment (U.S. DOT, \$3,500,000, 2012-2013, Five-Institutional Consortium, #KLK900-SB-003, TSU Budget: \$600,000).
5. CO-PI: Center for Research on Complex Networks (PI: Dr. Wei Li, CO-PI: Dr. C.J. Tymczak, NSF HRD-1137732, \$5,000,000, 2011-2016).
6. CO-PI: Use of Flashing Operations to Improve Safety at Signals with Protected-Permissive Left-Turn (PPLT) Operations (PI: Dr. Yi Qi, TxDOT 0-6568, \$251,301, 2009-2011).
7. PI: An Evaluation of Mobile Source Greenhouse Gas Modeling Approaches for Traffic Management Assessment (SWUTC 161040/161142, \$115,000, 2009-2011).
8. CO-PI: Development of an Interactive Petrochemical Incident Location System (PILS) (DHS DH-08-ST-061-004, \$500,000, 2009-2010).
9. PI: Development of Maritime Transportation Management and Security program (Port of Houston Authority, \$2,000,000.00, 2009-2014).
10. PI: PEMS-based Approach to Developing and Evaluating Driving Cycles for Air Quality Assessment (SWUTC 169300, \$33,500, 2008-2009).
11. CO-PI: Development of Guidelines for Triple Left and Dual Right-Turn Lanes (PI: Dr. Yi Qi, TxDOT 0-6112, \$289,998, 2008-2010, TTI Lead, TSU: \$125,755).
12. CO-PI: Driver Understanding of Congestion-Based Pricing Messages (PI: Dr. Fengxiang Qiao, TxDOT 0-6173, \$328,641, 2008-2010).
13. Co-PI: Characterization of Exhaust Emissions from Heavy Duty Diesel Vehicles in the HGB Area (TxDOT 0-6237, Total Project Budget \$513,601, TSU Budget \$82,000, 2008-2011).
14. Key-Investigator: Bicycle & Pedestrian Friendly Crossings at Freeway Interchanges (PI: Dr. Fengxiang Qiao, TxDOT 0-6127, 2008-2010, \$260,000, TSU Lead: \$200,000, UTA: \$60,000)
15. CO-PI: Establishment of National Transportation Security Center of Excellence based on the U.S. Congress House Rule XXI, clause 9(a)(4), Section 1205, jointly with other six institutions (U.S. Congress through Department of Homeland Security, \$18,000,000 per year, 2008-2012).
16. PI: Development of Left-Turn Operations Guidelines at Signalized Intersections (TxDOT 0-5840, \$228,905, 2006-2008).
17. Key-Investigator: Symbols and Warrants for Major Traffic Generator Guide Signing (TxDOT 0-5800, \$208,689, 2006-2008).
18. CO-PI: Develop Emissions, Truck Trips and Railcars Estimation Methodology for Major Texas Ports (TxDOT 0-5515, \$290,000, 2006-2008).

19. CO-PI: Vehicle Infrastructure Integration (VII) Based Road-Condition Warning System For Highway Collision Prevention (SWUTC 473700-00056, \$41,407, 2006-2008).
20. CO-PI: Computer Simulation-Based Algorithm For Optimizing Evacuation Plans In Major Trip Generator (SWUTC, \$20,000, 2006-2007).
21. Co-PI: Radio Frequency (RF) Sensor Technology Thrust: Subtask 2.3.8.1- Data Compression of Geolocation Signals (AFRL/UTC-Clarkson Aerospace Minority Leaders Program Sensors Technical Thrust, \$180,000, 2006-2008).
22. PI: Left-Turn Lane Design and Operation (TxDOT 0-5290, \$290,000, 2005-2007).
23. CO-PI: ITS Data Compression by Using Advanced Signal Processing Techniques (SWUTC 167651, \$55,200, 2004-2005).
24. PI: Analyzing Truck Idling Emission Characteristics under Altered Testing Conditions (SWUTC 167650, \$20,000, 2004-2005).
25. PM: Travel Demand Modeling for SH 249 (Consulting to Carter Burgess for TxDOT project, \$35,000.00, 2004-2005).
26. PM: Travel Demand Modeling for SH 225 Major Corridor Feasibility Study (MCFS) (Consulting to Carter Burgess for TxDOT project, \$123,190.08, 2003-2004).
27. PI: 2003 TxDOT Parking Lot Survey (TxDOT 52-4XXIA009, \$99,970, 2003-2004).
28. PI: Collection and Evaluation of On-Road Vehicle Emission Data and Activity Data (HARC H-8B, \$99,993, 2003-2004).
29. PI: Measurement and Evaluation of On-Road Vehicle Emissions at Signalized Intersections (SWUTC 473700-00049, \$35000, 2003-2004).
30. PI: How do Changes in Goods Movements Impact Disadvantaged Population (FHWA DTFH61-02-X-000112, \$100,000, 2002-2003).
31. PI: Evaluation of Highway Safety Improvement Projects (FHWA DTFH61-02-X-000106, \$37,500, 2002-2003).
32. PI: Probability Generation of Frequency and Severity of Nonrecurring Congestion due to Accidents to Improve Emissions Analysis (TxDOT 0-4073, \$87,000, 2002-2003).
33. PI: Extension of the Project Evaluation and Combined Use of TRANSYT-7F and CORSIM in Traffic Signal Optimization and Simulation (SWUTC 473700-00045, \$30,000, 2002-2003).
34. PI: Extension of Transportation Expertise Pool Project (FHWA DTFH61-00-R-00095, \$62,500, 2001-2002).
35. PI: Evaluation and Combined Use of TRANSYT-7F and CORSIM in Traffic Signal Optimization and Simulation (SWUTC 473700-00045, \$27,000, 2001-2002).
36. PI: Synthesis Report on Changeable Message Signs that Depict Symbols and Words (FHWA DTFH61-01-R-000126, \$62,500, 2001-2002).
37. PI: Pavement Smoothness Strategies (FHWA DTFH61-01-R-000111, \$56,250, 2001-2002).
38. PI: Yellow and Red Intervals to Improve Signal Timing Plans for Left-Turn Movement ( TxDOT 0-4273, \$175,000, 2001-2003).
39. PI: Airport-Related Traffic and Mobile Emission Implications ( TxDOT 0-4317, \$145,000, 2001-2003).
40. PI (cooperation with University of Texas at Austin): Using Real-Time Traffic Data for Transportation Planning ( TxDOT 0-4054 \$245,000, 2000-2002).
41. PI: Forecasting Traffic Characteristics for Air Quality Analyses ( TxDOT 0-4142 \$204,753, 2000-2002).
42. PI: Electronic Energy Storage and Future Transportation (NIST 70NANB0H0107, \$85,250, 2000-2001).
43. PI: Using ITS Technology to Improve Highway-Rail Crossing Safety (FHWA DTFH61-00-R-00089, \$62,500, 2000-2001).

44. PI: Transportation Expertise Pool (FHWA DTFH61-00-R-00095, \$50,000, 2000-2001).
45. PI: A Comparative Study of Travel Demand Forecasting Models using Real-World Networks: EMME/2 vs. QRS II (SWUTC 167901, \$40,000, 1999-2000).
46. PI: Collection and Evaluation of Modal Traffic Data for Determination of On-Road Vehicle Emission Rates Under Certain Driving Conditions (TxDOT and FHWA, \$200,000, 1995-1997).
47. PI: Evaluation of Traffic Simulation Models for Supporting ITS Development (SWUTC167602, \$50,000, 1998-1999).
48. CO-PI (with Dr. Naomi W. Lede') in Cooperation with Dr. Ardekani of University of Texas at Arlington: Dallas Area Rapid Transit Personalized Public Transit Operational Test Evaluation (FTA and DART, \$500,000, 1997-1999).
49. PI: Modeling for Estimating the Vehicle Exhaust Emissions from the Remote Vehicle Emission Data Collection (SWUTC #467600, \$99,000, 1996-1998).
50. PI: Quantitatively Estimating Air Quality Improvements and Energy Savings of Alternative Traffic Control Strategies (SWUTC #467203, \$45,000, 1995-1996).
51. PI: Improve the Modeling Logic Of Vehicles' Progression to Optimize the Coordinated Traffic Signal Timings in ATMS Networks (SWUTC # 472840-00044, \$24,000, 1995-1996).
52. PI: New Technologies and Methodologies for Evaluating and Analyzing the Implications of Various New Transportation Objectives (SWUTC # 466060, \$55,000, 1994-1995).
53. PM: Modeling of South Missouri City Traffic Network Project (in Conjunction with Traffic Engineers, Inc., \$25,000, 1998-1999).
54. Prime Contractor: Traffic Count and Intersection Analysis of Hidalgo and Post Oak Boulevard Project (Harris County Improvement District #1, Houston, Texas, \$25,000, 1998).

### **SCIENTIFIC JOURNAL PAPERS**

1. Qiao, F., R. Rahman, Q. Li, and L. Yu. Identifying Smartphone Based Intelligent Messages for Worker's Crossing in Work Zones. *Journal of Transportation Technologies*, 2016, 6, pp. 76-85.
2. Li, Q., F. Qiao, and L. Yu. Calibration of Car-Following Models Considering the Impacts of Warning Messages from Tablet/Smartphone Application. *Journal of Transportation Technologies*, 2016, 6, pp. 61-75.
3. Qiao, F., P. Kuo, Q. Li, Q. Zhu, and L. Yu. Design Right-Turn Vehicle Box as a Supplemental Treatment to Eliminate Conflicts with Pedestrians and Bicycles. *Journal of Transportation Technologies*, 2016, 6, pp. 43-59.
4. Nabi, M., F. Qiao, Y. Boya, and L. Yu. Developing Framework to Test Driving Performance at Left-Turn Movement with In-Vehicle Advance Collision Warning Message. *Journal of Transportation Technologies*, 2016, 6, pp. 30-42.
5. Li, M., L. Yu, Z. Zhai, W. He, and G. Song. Development of Emission Factors for an Urban Road Network based on Speed Distributions. Forthcoming. *ASCE Journal of Transportation Engineering*, 2016.
6. Li, Q., F. Qiao, and L. Yu (2016): Vehicle Emission Implications of Drivers Smart Advisory System for Traffic Operations in Work Zones. *Journal of the Air & Waste Management Association*, Vol. xx, Issue x, pp. xx-xx.
7. Li, Q., F. Qiao, and L. Yu (2016): Impacts of Pavement Types on In-vehicle Noise and Human Health, *Journal of the Air & Waste Management Association*, Vol. 66, Issue 1, pp. 87-96.

8. Zhang, J., L. Yu, J. Guo, Y. Cheng, W. He, and G. Song. Optimized Adjustment of Speed Resolution and Time Alignment Data for Improving Emission Estimations. Accepted for Publication in Transportation Research Record, Transportation Research Board of the National Academies, Washington, DC, Jan 2016.
9. Chen, X, L. Yu, X. Jia, and H. Gong. Capacity Modelling for Weaving, Merge, and Diverge Sections with Median Exclusive Bus Lanes on the Urban Expressway: a Micro-simulation Approach. Accepted for Publication in Transportation Research Record, Transportation Research Board of the National Academies, Washington, DC, Jan 2016.
10. Song, G., L. Yu, and Y. Wu. Development of Speed Correction Factors based on Speed-Specific VSP Distributions for Urban Restricted Access Roadways. *Journal of Transportation Engineering*, Volume 142, No. 3, March 2016, pp. xx-xx.
11. Li, Q., Qiao, F., and L. Yu. Socio-demographic impacts on lane-changing response time and distance in work zone with drivers' smart advisory system. *Journal of Traffic and Transportation Engineering (English Edition)*. 2015, 2(5): 313-326.
12. Song, G., F. Zhang, J. Liu, L. Yu, Y. Gao, and L. Yu. Floating car data-based method for detecting flooding incident under grade separation bridges in Beijing. *IET Intelligent Transport Systems*. 2015, 9(8): 817-823.
13. Song, G. X. Zhou, and L. Yu. Delay correction model for estimating bus emissions at signalized intersections based on vehicle specific power distributions. *Science of the Total Environment*. 2015, 514 (2015) 108–118.
14. Li, M., G. Song, Y. Cheng, and L. Yu. Identification of Prior Factors Influencing the Mode Choice of Short Distance Travel [J]. *Discrete Dynamics in Nature and Society*. 2015, 2015(1):1-9.
15. Li, Q., F. Qiao and L. Yu. Will Vehicle and Roadside Communications Reduce Emitted Air Pollution? *International Journal of Science and Technology*, Vol. 5, No. 1, 2015, pp. 17-23.
16. Li, Q., F. Qiao and L. Yu. Socio-demographic Impacts on Lane-changing Response Time and Distance in Work Zone with Drivers' Smart Advisory System, *Journal of Traffic and Transportation Engineering (English Edition)* (2015), Vol. 2, No. 5, October 2015, pp. 313-326.
17. Song, G. and L. Yu. Optimization of Wiedemann and Fritzsche Car-Following Models for Emission Estimation. *Journal of Transportation Research Part D*, Vol. 34, pp. 318-329, 2015.
18. Li, Q., F. Qiao and L. Yu. Data Dependent Modeling of New Contamination Cases from Urban Historic Groundwater Records. *Journal of Environmental Science and Engineering*, A 3, pp. 250-256, 2014.
19. Qiao, F., L. Liu and L. Yu. Quantifying Changes of Mobile Source Air Pollution in Metropolitan Areas Using Vehicle Emission Model MOVES. *Journal of Environmental Science and Engineering*, A 3, pp. 250-256, 2014.
20. Wu, Y, G. Song, and L. Yu. Sensitive Analysis of Emission Rates in MOVES for Developing Site-specific Emission Database. *Journal of Transportation Research Part D*, Volume 32, pp. 336-340, October 2014.
21. Chen, X, L. Yu, X. Jia, and H. Gong. Analytical Procedures for Estimating Capacity of the Urban Expressway Section near Off- and On-Ramps with a Median Exclusive Bus Lane. *Journal of Transportation Engineering*, ASCE, Vol. 140, No. 3, pp. 1-9, March 2014.
22. Chen, X, L. Yu, and Y. Wang. Analyzing the Effect of BRT Policy Strategies on CO<sub>2</sub> Emissions: a Case Study of Beijing Transport Policy. Accepted for Publication in *Journal of Advanced Transportation*, 2014.
23. Qiao, F., J. Jia, L. Yu, Q. Li, and D. Zhai. Drivers' Smart Assistance System Based on Radio Frequency Identification. In *Transportation Research Record: Journal of Transportation Research Board*, No. 2458, Transportation Research Board of the National Academies, Washington, DC, Jan 2014, pp. 37-46.
24. Lai, J, L. Yu, and G. Gong. Emission Characteristics of Heavy-Duty Diesel Transit Buses at Bus Stops in Beijing. *Air & Waste Management Association Environmental Management Magazine*, pp. 30-33, August 2013.

25. Lai, J, L. Yu, G. Song, P. Guo, and X. Cheng. Development of City-Specific Driving Cycles for Transit Buses Based-on VSP Distribution – A Case of Beijing. *Journal of Transportation Engineering*, ASCE, Vol. 139, No. 7, pp. 749-757, July 2013.
26. Song, G., L. Yu, and L. Xu. Comparative Analysis of Car-Following Models for Emission Estimation. In *Transportation Research Record: Journal of Transportation Research Board*, No. 2341, Transportation Research Board of the National Academies, Washington, DC, Jan 2013, pp. 12-22.
27. Wu, Y., L. Yu, G. Song, and L. Xu. Feasibility Study on Fuel Consumption Prediction Model by Integrating VSP and CAN Bus Technology. In *Transportation Research Record: Journal of Transportation Research Board*, No. 2341, Transportation Research Board of the National Academies, Washington, DC, Jan 2013, pp. 66-75.
28. Zhu, L., L. Yu, X. Chen, and J. Guo. Simulated Analysis of Exclusive Bus Lanes on Expressways: Case Study in Beijing, China. *Journal of Public Transportation*, Vol. 15, No. 4, pp. 111-127, 2013.
29. Zhu, L., L. Yu, and G. Song. Perception-based Comparative Study of VHT-Weighted vs. VKT-Weighted Measurements of Corridor Traffic Congestions [J]. *Advances in Information Sciences and Service Sciences (AISS)*. 2013, 5(8): 1022-1030.
30. Chen, X., L. Yu, G. Song, and C. Xian. Comparative Study of Emissions from Bus Rapid Transit and Conventional Bus System: A Case Study of Beijing. In *Transportation Research Record: Journal of Transportation Research Board*, No. 2277, Transportation Research Board of the National Academies, Washington, DC, Jan 2012, pp. 11-20.
31. Song, G. and L. Yu. Applicability of Traffic Micro-Simulation Models in Vehicle Emission Estimations: Case Study of VISSIM. In *Transportation Research Record: Journal of Transportation Research Board*, No. 2270, Transportation Research Board of the National Academies, Washington, DC, Jan 2012, pp. 132-141.
32. Qi, Y, L. Guo, L. Yu, and H. Teng. Estimation of Design Lengths of Left-turn Lanes. *Journal of Transportation Engineering*, ASCE, Vol. 138, No. 3, pp. 274-283, March 2012.
33. Song, G. and L. Yu. Distribution Characteristics of Vehicle Specific Power on Urban Restricted Access Roadways. *Journal of Transportation Engineering*, ASCE, 2012(2), vol. 138, pp. 202-209.
34. Guo, S, L. Yu, X. Chen, and Y. Zhang. Modeling Waiting Time for Passengers Transferring from Rail to Buses. *Journal of Transportation Planning and Technology*, Vol. 34, No. 8, 2011, pp. 795-809.
35. Song, G and L. Yu. Characteristics of Low-Speed VSP Distributions on Urban Restricted Access Roadways in Beijing. In *Transportation Research Record: Journal of the Transportation Research Board*, NO. 2233, Transportation Research Board of the National Academies, Washington, DC, 2011, pp. 90-98.
36. Tao, F., Q. Shi, and L. Yu. Evaluation of Effectiveness of Coordinated Signal Control on Reducing Vehicle Emissions during Peak Hours vs. Non-peak Hours. In *Transportation Research Record: Journal of the Transportation Research Board*, NO. 2233, Transportation Research Board of the National Academies, Washington, DC, 2011, pp. 45-52.
37. Lai, J., G. Song, and L. Yu. A Comparative Analysis of Three Approaches for Developing CO2 Emission Inventory: A Case Study for Beijing. In *Transportation Research Record: Journal of the Transportation Research Board*, NO. 2252, Transportation Research Board of the National Academies, Washington, DC, 2011, pp. 144-151.
38. Yu, L., X. Zhang, F. Qiao, and Y. Qi. Genetic Algorithm-based Approach to Develop Driving Schedules to Evaluate Greenhouse Gas Emissions from Light-Duty Vehicles. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2191. Transportation Research Board of the National Academies, Washington, D.C., 2010, pp. 166-173.

39. Xu, Y., L. Yu, and G. Song. Improved Vehicle Specific Power Bins for Light-Duty Vehicles in Estimation of Carbon Dioxide Emissions in Beijing. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2191. Transportation Research Board of the National Academies, Washington, D.C., 2010, pp. 158-165.
40. Zhu, Q., F. Qiao, and L. Yu. Toll Roads Distribution. *Journal of Systemics, Cybernetics and Informatics*. Vol. 8, No. 4, 2010, pp. 76-79.
41. Yu, L., M. Liu, Q. Shi, and G. Song. Macroscopic Congestion Intensity Measurement Model Based on Cumulative Logistic Regression. *The Open Transportation Journal*, Special Issue on "Traffic Safety and Driving Behavior Studies, <http://bentham.org/open/totj/>, ISSN: 1874-4478, April 2010.
42. Qi, Y., X. Chen, A. Guo, and L. Yu. Protected-Permissive Left-Turn Signal Control Mode: New Analytical Approach to Estimate Operational Benefit and Safety Cost. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2149. Transportation Research Board of the National Academies, Washington, D.C., 2010, pp. 37-49.
43. Chen, X., L. Yu, L. Zhu, J. Guo, and M. Sun. Microscopic Traffic Simulation Approach to the Capacity Impact Analysis of Weaving Sections for the Exclusive Bus Lanes on an Urban Expressway. *Journal of Transportation Engineering*, ASCE, Vol. 136, No. 10, Oct2009, pp. 895-902.
44. Chen, X.M., L. Yu, Y.S. Zhang, and J.F. Guo. Analyzing Urban Bus Service Reliability at the Stop, Route, and Network Levels. *Transportation Research Part A: Policy and Practice*, Volume 43, Issue 8, October 2009: 722-734.
45. Yu, L., S. Jia, and Q. Shi. Research on Transportation-Related Emissions: Current Status and Future Directions. *Journal of the Air & Waste Management Association*. Vol. 59, 2009, pp. 183-195.
46. Song, G., L. Yu, and Z. Wang. Aggregate Fuel Consumption Model of Light-Duty Vehicles for Evaluating Effectiveness of Traffic Management Strategies on Fuels. *Journal of Transportation Engineering*, ASCE, Vol. 135, No. 9, Sept2009, pp. 611-618.
47. Yu, L., Y. Xu, G. Song, Y. Hao, S. Guo, and Q. Shi. Development and Application of Macroscopic Emission Model for China. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2123. Transportation Research Board of the National Academies, Washington, D.C., 2009, pp. 66-75.
48. Song, G. and L. Yu. Estimation of Fuel Efficiency of Road Traffic by a Characterization of VSP and Speed Based On FCD. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2139. Transportation Research Board of the National Academies, Washington, D.C., 2009, pp. 11-20.
49. Zhao, N. L. Yu, H. Zhao, J. Guo, and H. Wen. Analysis of Traffic Flow Characteristics on Ring-Road Expressways in Beijing Using FCD and RTMS Data. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2124. Transportation Research Board of the National Academies, Washington, D.C., 2009, pp. 178-185.
50. Liu, X. and L. Yu. Development of Geolocation Data Compression for Transportation Target Identification. In *Transportation Research Record: Journal of the Transportation Research Board series*, No. 2105. Transportation Research Board of the National Academies, Washington, D.C., 2009, pp. 71-82.
51. Yi, P. J. Wolfenbarger, V. S. Raavi, and L. Yu. Investigation of Peak Flow Variations: Preliminary Field Studies. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2130. Transportation Research Board of the National Academies, Washington, D.C., 2009, pp. 75-82.
52. Yu, L., Z. Wang, F. Qiao, and Y. Qi. Approach to Development and Evaluation of Driving Cycles for Classified Roads Based on Vehicle Emission Characteristics. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2058, Transportation Research Board of the National Academies, Washington, D.C., 2008, pp. 58-67.

53. Song, G., L. Yu, and X. Zhang. Emission Analysis at a Toll Station Area in Beijing with Portable Emission Measurement System. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2058, Transportation Research Board of the National Academies, Washington, D.C., 2008, pp. 106-114.
54. Chen, X., L. Yu, L. Zhu, L. Yu, and G. Guo. Microscopic Simulation Approach to Effectiveness Analysis of Transit Signal Priority for Bus Rapid Transit: A Case Study in Beijing. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2072, Transportation Research Board of the National Academies, Washington, D.C., 2008, pp. 64-76.
55. Chen, K. and L. Yu. Traffic-Emission Simulation and Case Study for Evaluation of Traffic Control Strategies Authors. *Journal of Transportation Systems Engineering and Information Technology*, Vol. 7, Issue: 1, pp. 93-99, February 2007.
56. Zhao, N., L. Yu., Y. Geng, and X. Chen. Support Vector Machine-Based Approach to Data-Layer Multi-Source ITS Data Fusion. *Journal of Transportation Systems Engineering and Information Technology*, Vol. 7, Issue: 2, pp. 32-38, April 2007.
57. Qi, Y., L. Yu and M. Azimi. Determination Of Storage Lengths of Left-Turn Lanes at Signalized Intersections. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 2023, Transportation Research Board of the National Academies, Washington, D.C., 2007, pp. 102-111.
58. Yu, L., X. Li, and W. Zhuo. A Generic Algorithm-Based Calibration of VISSIM Using GPS Data. *Advances in Transportation Studies an international Journal Section B* 8, 2006, pp. 57-69.
59. Yu, L. L. Yu, X. Chen, T. Wan and J. Guo. Calibration of VISSIM for Bus Rapid Transit Systems in Beijing Using GPS Data. *Journal of Public Transportation*, Vol. 9, No. 3, pp. 239-257, 2006.
60. Qiao, F., H. Liu and L. Yu. Incorporating Wavelet Decomposition Technique to Compress TransGuide ITS Data. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 1968, Transportation Research Board of the National Academies, Washington, D.C, 2006, pp. 63-74.
61. Chen, X., G. Lin, and L. Yu. Evaluation Analysis on an Integrated Fare Initiative in Beijing. *Journal of Public Transportation*, Vol. 8, No. 3, 2005, pp. 33-55.
62. Yu, L., F. Qiao, and Y. Zhang. Improved Framework and Systematic Calibration for Left-Turn Signal Change Intervals. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 1925, Transportation Research Board of the National Academies, Washington, D.C, 2005, pp. 112-122.
63. Qiao, F. and L. Yu. On-Road Vehicle Emission and Activity Data Collection and Evaluation in Houston, Texas. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 1941, Transportation Research Board of the National Academies, Washington, D.C, 2005, pp. 60-71.
64. Yang, F., L. Yu, and G. Song. Application of Small Sampling Approach to Estimating Vehicle Mileage Accumulations for Beijing. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 1880, Transportation Research Board of the National Academies, Washington, D.C, 2004, pp. 77-82.
65. Yu, L., L. Munghor, P. Yi, and H. Teng. Simulation-based Evaluation of Electronic Energy Storage Devices in Buses for Reducing Emissions. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 1887, Transportation Research Board of the National Academies, Washington, D.C, 2004, pp. 109-116.
66. Yu, L., F. Qiao, Y. Zhang, and Z. Tian. Improved Red-Clearance Intervals Based-on Observed Turning Times for Left-Turn Movement. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 1862, Transportation Research Board of the National Academies, Washington, D.C, 2004, pp. 36-43.



67. Qiao, F., X. Wang, and L. Yu. Double-Sized Determination of Aggregation Level for ITS Data. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 1879, Transportation Research Board of the National Academies, Washington, D.C, 2004, 80-88.
68. Yi, P., S. Li, and L. Yu. Wavelet Transform for Feature Extraction to Improve Volume Adjustment Factors for Rural Roads. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 1879, Transportation Research Board of the National Academies, Washington, D.C, 2004, pp. 24-29.
69. Yu, L., F. Qiao, L. Xu, X. Chen, Y. Geng, J. Wu, and Z. Yuan. ITS Data Archiving Strategy Based-on Sampling Approach. *Journal of Transportation Systems Engineering and Information Technology*. Vol. 3, No. 4, pp. 16-26, 2003.
70. Qi, Y., H. Teng and L. Yu, Microscale Emission Models Incorporating Acceleration and Deceleration. *Journal of Transportation Engineering*, ASCE, Vol. 130, No. 3, MAY/JUNE 2004: 348-359.
71. Qiao, F., X. Wang and L. Yu. Optimizing Aggregation Level for ITS Data based on Wavelet Decomposition. In *Transportation Research Record: Journal of the Transportation Research Board*, No. 1840, Transportation Research Board of the National Academies, Washington, D.C, 2003, pp. 10-20.
72. Yu, L. and K. Ohno. A Theoretical Approach to Optimizing Offsets of Coordinated Traffic Signal Controls. *Journal of Transportation Systems Engineering and Information*. Vol. 2, No. 4, pp. 29-39, 2002.
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  48. Zhao, Q., L. Yu, and G. Song. Characteristics of VSP Distributions of Light-duty and Heavy-duty Vehicles on Freeway: A Case Study. Presented at the 91st Transportation Research Board Annual Meeting, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.

49. Zhao, H., L. Yu, N. Zhao, H. Wen, J. Guo, and L. Zhu. A Practical Approach to the Estimation of Time-varying OD Demands Incorporating FCD and RTMS Data. Presented at the 91st Transportation Research Board Annual Meeting, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
50. Qiao, F., P. Kozhova, and L. Yu. Testing Drivers' Understanding of Pricing Signs Using Driving Simulator. Presented at the 91st Transportation Research Board Annual Meeting, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
51. Analysis of Temporal Characteristics of Traffic Congestion on Expressways Using Floating Car Data in Beijing. Presented at the 18<sup>th</sup> ITS World Congress, Orlando, Florida, October 16-20, 2011.
52. How to Evaluate Emissions of Traffic Network in ITS. Presented at the 18<sup>th</sup> ITS World Congress, Orlando, Florida, October 16-20, 2011.
53. Statistical Distribution of Capacities on Ring-Road Expressways of Beijing Based on Bound-Line Analysis. Presented at 90th Transportation Research Board Annual Meeting, Washington, DC, Jan 2011.
54. Modeling of Vehicle Specific Power and Instantaneous Speed Distribution for Expressways in Beijing. Presented at 90th Transportation Research Board Annual Meeting, Washington, DC, Jan 2011.
55. Characteristics of Low-Speed VSP Distributions on Urban Restricted Access Roadways in Beijing. Presented at 90th Transportation Research Board Annual Meeting, Washington, DC, Jan 2011.
56. Calibrating and Validating a Micro-simulation Model of Bus Rapid Transit Corridor with Heuristic Optimization Methods. Presented at 90th Transportation Research Board Annual Meeting, Washington, DC, Jan 2011.
57. Evaluation of Effectiveness of Coordinated Signal Control on Reducing Vehicle Emissions during Peak Hours vs. Non-peak Hours. Presented at 90th Transportation Research Board Annual Meeting, Washington, DC, Jan 2011.
58. A Comparative Overview of MOVES2010 and MOBILE6.2 for Smoothing the Model Conversion Process. Presented at 90th Transportation Research Board Annual Meeting, Washington, DC, Jan 2011.
59. "Development of Maritime Transportation Management and Security Program." Keynote Speaker at National Defense Transportation Association, Brady's Landing Restaurant, Houston, Texas, August 26, 2010.
60. GA-based Approach for the Development of Driving Schedules for Evaluating Greenhouse Gas Emissions from Light-Duty Vehicles. Presented at 89th Transportation Research Board Annual Meeting, Washington, DC, Jan 2010.
61. Improved Vehicle Specific Power Bins for Light-Duty Vehicles for Estimating Carbon Dioxide Emissions in Beijing. Presented at 89th Transportation Research Board Annual Meeting, Washington, DC, Jan 2010.
62. Statistical Distribution of Capacities on Ring-Road Expressways of Beijing. Presented at 89th Transportation Research Board Annual Meeting, Washington, DC, Jan 2010.
63. Analyzing Urban Bus Service Reliability at Stop, Route and Network Level. Presented at 89th Transportation Research Board Annual Meeting, Washington, DC, Jan 2010.
64. Distribution Characteristics of Vehicle Specific Power on Urban Restricted Access Roadways. Presented at 89th Transportation Research Board Annual Meeting, Washington, DC, Jan 2010.
65. A Novel Model for Identification of Key Congested Segments Based on Tree-structured Wavelet Decomposition. Presented at 89th Transportation Research Board Annual Meeting, Washington, DC, Jan 2010.

66. Analysis of Driving Behavior and Emission Characteristics for Diesel Transit Buses Using PEMS' Measurements. Presented at 89th Transportation Research Board Annual Meeting, Washington, DC, Jan 2010.
67. The Modeling of Waiting Time for Passengers to Transfer from Rail to Buses Based-on Passenger Classification. Presented at 89th Transportation Research Board Annual Meeting, Washington, DC, Jan 2010.
68. Simulation Approach to the Analysis of Exclusive Bus Lane on Western 3rd Ring-Road Expressway in Beijing. Presented at 89th Transportation Research Board Annual Meeting, Washington, DC, Jan 2010.
69. "A Synthesis of Transportation Emission Research: Current Status and Future Directions." Invited Presentation at University of Cincinnati, Cincinnati, Ohio, April 2009.
70. A Practical Approach to Deriving Emission Factors for China Based on Limited Emission Data Source. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
71. Development and Application of Macroscopic Emission Model for China. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
72. Comparative Study of Diesel Vehicle Emissions for Before- and After-Installation of Diesel Particulate Filter (DPF). Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
73. Analysis of Traffic Flow Characteristics on Ring-Road Expressways in Beijing Using FCD and RTMS Data. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
74. Development of Geolocation Data Compression for Transportation Target Identification. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
75. Capacity Analysis of Weaving Sections on an Urban Expressway with Exclusive Bus Lanes Using Microscopic Traffic Simulation. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
76. Vehicle Infrastructure Integration-Based Driver Warning System for Run-Off-Road Crash Prevention. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
77. Investigation and Description of Short-Term Peak-Flow Variations: Preliminary Field Study. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
78. Estimation of Design Lengths of Left-Turn Lanes. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
79. Vehicle Infrastructure Integration-Based Highway Lane Change Warning System for Collision Prevention. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
80. Safety Impacts of Left-Turn Phasing Sequence. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
81. Guidelines for Selecting Left-Turn Signal Control Mode. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
82. Evacuation Modeling in Small and Dense Area. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
83. Review of Radio Frequency Identification Applications in Transportation. Presented at 88th Transportation Research Board Annual Meeting, Washington, DC, Jan 2009.
84. "Data Compression for Emitter Location Finding in Sensor Networks." Presented at The 5th International Conference on Information Technology: New Generations, Las Vegas, Nevada, April 7-9, 2008.
85. "Research On Transportation Related Emissions: Current Status And Future Directions." Presented at 87th Transportation Research Board Annual Meeting, Washington, DC, Jan 2008.

86. "Vehicle Emission Characteristics-based Approach to the Development and Evaluation of Driving Cycles for Classified Roads." Presented at 87th Transportation Research Board Annual Meeting, Washington, DC, Jan 2008.
87. "The Impacts Of Signal Phasing Sequence On Left-turn Operation." Presented at 87th Transportation Research Board Annual Meeting, Washington, DC, Jan 2008.
88. "A Practical Model for Evaluation of Fuel Efficiency for Road Traffic." Presented at 87th Transportation Research Board Annual Meeting, Washington, DC, Jan 2008.
89. "Emission Analysis at a Toll Station in Beijing Using PEMS' Measurements." Presented at 87th Transportation Research Board Annual Meeting, Washington, DC, Jan 2008.
90. "Modeling Lane Change Distance For Sign Placement." Presented at 87th Transportation Research Board Annual Meeting, Washington, DC, Jan 2008.
91. "Microscopic Simulation Approach to Effectiveness Analysis of Transit Signal Priority for Bus Rapid Transit: Case Study of Beijing." Presented at 87th Transportation Research Board Annual Meeting, Washington, DC, Jan 2008.
92. "Arrow Exit Sign Placement on Highway Using Fuzzy Table Look-Up Scheme." Presented at 12th Online World Conference on Soft Computing in Industrial Application, Oct. 16-26th, 2007.
93. "Using Driving Simulator for Advance Placement of Guide Sign Design for Exits along Highways." Presented at Driving Simulation Conference, North America, Iowa, Sept. 12-14th, 2007.
94. "Using Driving Simulator for Logo and Symbol Design at Interchanges for Major Traffic Generator." Presented at Driving Simulation Conference, North America, Iowa. Sept. 12-14th, 2007.
95. "Potential Applications of Radio Frequency Identification (RFID) in Transportation Operation and Intelligent Transportation System (ITS)." Presented at The 4th International Conference on Cybernetics and Information Technologies, Systems and Applications: CITSA 2007, jointly with The 5th International Conference on Computing, Communications and Control Technologies: CCCT 2007, Orlando, Florida, USA, July 12-15, 2007.
96. "Benefit Analysis on Bus Rapid Transit Exclusive Lanes." Presented at the First International Conference of Transportation Engineering (ICTE'2007), Chengdu, China, 2007.
97. "PEMS-Based Comparative Study on On-Road Emissions from a Hybrid Electric Vehicle vs. a Gasoline Vehicle." Presented at the First International Conference of Transportation Engineering (ICTE'2007), Chengdu, China, 2007.
98. "Impact of Exclusive Lanes and Signal Priority on Bus Rapid Transit Effectiveness." Presented at the First International Conference of Transportation Engineering (ICTE'2007), Chengdu, China, 2007.
99. "Fuzzy Logic-Based Urban Traffic Congestion Evaluation Models and Applications." Presented at the First International Conference of Transportation Engineering (ICTE'2007), Chengdu, China, 2007.
100. "Simulation-based Assessment of the Effect of Large-Scale Events on Urban Road Network Reliability." Presented at the First International Conference of Transportation Engineering (ICTE'2007), Chengdu, China, 2007.
101. "A Microscopic Emission Model for the Light Duty Vehicles Based on PEMS Data." Presented at the First International Conference of Transportation Engineering (ICTE'2007), Chengdu, China, 2007.
102. "Bayesian-based Approach for Updating Characteristics of Crash Data: Frequency, Duration and Lanes Blocked." Presentation at 86th Transportation Research Board Annual Meeting, Washington, DC, January 21-25, 2007.
103. "VISSIM-Based Simulation Approach to Analysis of Synchronization Between Operation and Traffic Controls in Beijing BRT System." Presentation at 86th Transportation Research Board Annual Meeting, Washington, DC, January 21-25, 2007.

104. "Characteristics Analysis Of Road Network Reliability In Beijing Based-On The Data Logs From Taxis." Presentation at 86th Transportation Research Board Annual Meeting, Washington, DC, January 21-25, 2007.
105. "On-Road Vehicle Emissions in Beijing, China: An Experimental Study Using PEMS." Presentation at 86th Transportation Research Board Annual Meeting, Washington, DC, January 21-25, 2007.
106. "Estimating the Impact of Nonrecurring Congestions on Vehicle Emissions." Presentation at 86th Transportation Research Board Annual Meeting, Washington, DC, January 21-25, 2007.
107. "Characteristics of Truck Idling Emissions Under Real-World Conditions." Presentation at 85th Transportation Research Board Annual Meeting, Washington, DC, January 22-26, 2006.
108. "Incorporating Wavelet Decomposition Technique to Compress TransGuide ITS Data." Presentation at 85th Transportation Research Board Annual Meeting, Washington, DC, January 22-26, 2006.
109. "Neuro-Fuzzy Logic-Based Model for Assessment of Freight Transportation Implications on Communities." Presentation at 85th Transportation Research Board Annual Meeting, Washington, DC, January 22-26, 2006.
110. "Wavelet-Based Determination of Aggregation Levels for ITS Data." Invited speaker at the workshop #118 at 84th Transportation Research Board Annual Meeting, Washington, DC, Jan 9-13, 2005.
111. "Improving Environment during a High Economic Growth: A Comprehensive Research Agenda in Mobile Emission Controls at Beijing Jiaotong University." Presented at 2nd COE Expert Meeting Organized by Hiroshima University, Renmin University, Beijing, China, November 2-3, 2004.
112. "Improved Framework and Systematic Calibration for Left-Turn Change Intervals." Presentation at 84th Transportation Research Board Annual Meeting, Washington, DC, Jan 9-13,2005.
113. "GA-Based Calibration of VISSIM for Intercontinental Airport of Houston (IAH) Network Using GPS Data." Presentation at 84th Transportation Research Board Annual Meeting, Washington, DC, Jan 9-13,2005.
114. "Collection and Evaluation of On-Road Emission and Activity Data in Houston." Presentation at 84th Transportation Research Board Annual Meeting, Washington, DC, Jan 9-13,2005.
115. "Development of Regional ITS Architecture for Beijing." Invited Speaker at Beijing High-Level Symposium on ITS and Transportation Information Management, Beijing, China, May 23-24, 2004.
116. "Vehicle Age Distribution Model and Application for Beijing, China." Presentation at 83rd Transportation Research Board Annual Meeting, Washington, DC, January 2004.
117. "Application of Small Sampling Approach to Estimating Vehicle Mileage Accumulations for Beijing, China." Presentation at 83rd Transportation Research Board Annual Meeting, Washington, DC, January 2004.
118. "Simulation-based Evaluation of Applications of Electronic Energy Storage Devices in Buses for Reducing Emissions." Presentation at 83rd Transportation Research Board Annual Meeting, Washington, DC, January 2004.
119. "Improved Red-Clearance Intervals Based-on Observed Turning Times for Left-Turn Movement." Presentation at 83rd Transportation Research Board Annual Meeting, Washington, DC, January 2004.
120. "Double-Sizes Optimization of Aggregation Level for ITS Data." Presentation at 83rd Transportation Research Board Annual Meeting, Washington, DC, January 2004.
121. "An Alternative Approach to VMT Estimation: Combining Traffic Count and Link Attributes." Presentation at 83rd Transportation Research Board Annual Meeting, Washington, DC, January 2004.
122. "Vehicle Age Distribution Model and Application for Beijing, China." Presented at 83rd Transportation Research Board Annual Meeting CD-ROM, Washington, DC, January 2004.

123. "ITS Development in Houston, Texas." Invited Speaker at Second ITS High-Level Forum, Beijing, China, December 26, 2003.
124. "On-Road Vehicle Emission Monitoring Technology and its Applications." Presentation at the 3rd International Conference of Young Chinese Transportation Professionals, Beijing, China, December 10-12, 2003.
125. "Optimizing Aggregation Level for ITS Data based on Wavelet Decomposition." Presentation at 82nd Transportation Research Board Annual Meeting, Washington, DC, January 2003.
126. "Adjusting Vehicle Mileage Accumulation Rates based on Small Sample Survey." Presentation at 82nd Transportation Research Board Annual Meeting, Washington, DC, January 2003.
127. "Derivation of Emission Factors for Nanjing, China Using MOBILE5." Presentation at 82nd Transportation Research Board Annual Meeting, Washington, DC, January 2003.
128. "A Comparative Study of EMME/2 and QRS II for Small Community." Presentation at 82nd Transportation Research Board Annual Meeting, Washington, DC, January 2003.
129. "Survey on Using ITS Technology to Improve Highway-Rail Grade Crossing." Presentation at 82nd Transportation Research Board Annual Meeting, Washington, DC, January 2003.
130. "Data Management Techniques in ITS Common Information Platform." Presentation at 2nd Beijing ITS International Symposium, Beijing, September 2002.
131. "ITS Data Archiving and Aggregation." Presentation at the 2nd International Conference of Young Chinese Transportation Professionals, Nanjing, China, August 6-7, 2002.
132. "Time-Scale Domain Analysis of ITS Data via Transformation." Presentation at 3rd International Conference on Traffic and Transportation Studies (ICTTS'2002), Guilin, China, July 2002.
133. "Application of ITS Technology to Improve Highway-Rail Grade Crossing Safety." Presentation at 3rd International Conference on Traffic and Transportation Studies (ICTTS'2002), Guilin, China, July 2002.
134. "A Study of Railway Transportation Simulation System." Keynote Speech at 3rd International Conference on Traffic and Transportation Studies (ICTTS'2002), Guilin, China, July 2002.
135. "Modeling Vehicle Age Distribution for Air Quality Analysis." Presentation at 3rd International Conference on Traffic and Transportation Studies (ICTTS'2002), Guilin, China, July 2002.
136. "Modeling Vehicle Age Distribution For Air Quality Analysis." Presentation at 81st Transportation Research Board Annual Meeting, Washington, D.C., January 2002.
137. "Modeling a Small Network for Traffic Impact Study." Presentation at 81st Transportation Research Board Annual Meeting, Washington, D.C., January 2002.
138. "Statistical Microscale Emission Models Incorporating Acceleration and Deceleration." Presentation at 81st Annual Meeting of Transportation Research Board, Washington, D.C., January 2002.
139. "Mobile Source Emission Modeling and Control Strategies: Experience and Problems." Presentation at the 1st International Conference of Young Chinese Transportation Professionals, Shanghai, China, July, 2001.
140. "Stochastic Process-Based Approach to Determining the Offset of Coordinated Traffic Signals." Presentation at 80th Transportation Research Board Annual Meeting, 01-2281, Washington, D.C., January 2001.
141. "Determination of Left-Turn Yellow and Red Intervals." Presentation at 80th Transportation Research Board Annual Meeting, Washington, D.C., January 2001.
142. "Assessing Transportation Network Quality from Vehicle Emission, Fuel Consumption, and Traffic Congestion Perspectives." Presentation at 80th Transportation Research Board Annual Meeting, Washington, D.C., January 2001.

143. "Calibration of Platoon Dispersion Parameters based on Link Travel Time Statistics." Presentation at 79th Transportation Research Board Annual Meeting, Washington, D.C., January 2000.
144. "ITS and Environment." Invited Speaker at Texas Summer Transportation Institute (TSTI) organized by Texas Transportation Institute (TTI) and Sponsored by US Department of Transportation, June 2000 at Houston Session.
145. "A Comparative Study of EMME/2 and QRS II for Modeling a Small Urban Networks." Presentation at The 14th Annual EMME/2 International Users' Group Conference, Chicago, Illinois, October 20-22, 1999.
146. "Highway Traffic Operations with Applications of Intelligent Transportation Systems (ITS) Technologies." Invited lecturer by the Graduate School of Tsinghua University for its Summer Graduate Teaching Program, Tsinghua University, Beijing, China, August 16-26, 1999.
147. "Highway Planning Methods." Provided training to a group of six planners from Hunan Provincial Department of Transportation, People's Republic of China sponsored by the World Bank, Houston, Texas, June 30-July 12, 1999.
148. "ITS and Environment." Invited Speaker at Summer Transportation Institute (STI) organized by Texas Transportation Institute (TTI) and Sponsored by US Department of Transportation, July 16, 1999 at Houston Session and July 30, 1999 at Dallas Session.
149. "Remote Vehicle Exhaust Emission Sensing for Traffic Simulation and Optimization Models." Presentation at 78th Transportation Research Board Annual Meeting, Washington, D.C., January 1999.
150. "Remote Sensing of Vehicle Exhaust Emissions for the On-Road Emission Estimation and Emission Model Evaluation." Presentation at 1998 ASCE International Conference on Traffic and Transportation Studies (ICTTS'98), Beijing, China, July 1998.
151. "DYNAMIC: A Queuing Based Dynamic Macroscopic Traffic Assignment/Simulation Model." Presentation at 1998 ASCE International Conference on Traffic and Transportation Studies (ICTTS'98), Beijing, China, July 1998.
152. "ITS Development Strategy." Invited Speaker at '98 Symposium on Harbin Roadway Development Strategy, Harbin, China, July 25, 1998.
153. "American Transportation Systems and its ITS Development." Invited Speaker at Center for ITS Research and Development of Northern Jiaotong University, Beijing, China, July 29, 1998.
154. "Examination of Tree Building and Weight Selection Strategies for a Discrete Dynamic Traffic Assignment Model." Presentation at 5th International Conference on Applications of Advanced Technologies in Transportation Engineering, Newport Beach, California, 1998.
155. "Collection and Evaluation of On-Road Vehicle Emission Data Using a Remote Emission Sensor." Presentation at the ASCE Conference on Transportation, Land Use and Air Quality, Portland, Oregon, 1998.
156. "Vehicle Emission Impacts of Alternative Traffic Control Strategies." Presentation at the ASCE Conference on Transportation, Land Use and Air Quality, Portland, Oregon, 1998.
157. "Air Quality Based Approach for Traffic Management Strategies." Presentation at 1997 ASCE Traffic Congestion and Traffic Safety in the 21st Century Conference, Chicago, Illinois, June 1997.
158. "Platoon Dispersion and Calibration under Advanced Traffic Control Strategies." Presentation at 1997 ASCE Traffic Congestion and Traffic Safety in the 21st Century Conference, Chicago, Illinois, June 1997.
159. "Remote Vehicle Emission Sensing for Evaluating ATMS Strategies." Presentation at Eighth ITS America Annual Meeting, Washington, D.C., 1997.
160. "Advanced Transportation Management Systems." Distinguished Lecturer for the Chinese Delegations of Transportation Executives and Administrators from the Yunnan Province, Houston, Texas, October 30 - November 3, 1996, March 19-22, 1997, and December 7-9, 1998.

161. "A Practical Algorithm for Solving the Dynamic Traffic Assignment Problems for Complex Networks." Presentation at Annual International Conference on Industrial Engineering Applications and Practice, Houston, Texas, 1996.
162. "Vehicle Emission Sensing and Evaluation Using the Smog Dog in Houston." Presentation at SPIE Conference: Transportation Sensors and Controls: Collision Avoidance, Traffic Management, and ITS, Boston, MA, 1996.
163. "A New Methodology for Routing Vehicles in IVHS with Environmental Objectives." Presentation at the Sixth ITS America Annual Meeting, Washington, D.C., 1995.
164. "Implementing TRANSYT's Macroscopic Platoon Dispersion in Microscopic Simulation Models." Presentation at 1995 Transportation Research Board Annual Meeting, Washington, D.C., 1995.
165. "Vehicle Probes as real-time ATMS Sources of Dynamic O-D and Link Travel Time Data." Presentation at the Advanced Traffic Management Conference, St-Petersburg Beach, Florida, 1993, pp. 207-230.
166. "An Overview of the DYNAMIC Traffic Assignment Method." Presentation at Canadian ITE '93 Annual Conference, Edmonton, Canada, 1993.

### **TECHNICAL REPORTS**

1. Qi, Y., X. Chen, L. Yu, H. Liu, G. Liu, D. Li, K. R. Persad, and K. Pruner. Development of Guidelines for Operationally Effective Raised Medians and the Use of Alternative Movements on Urban Roadways. Technical Report for the Texas Department of Transportation (TxDOT) 0-6244-1, Texas Southern University, 2013 (270 Pages).
2. Johnson, J., D. Lee, R. Farzaneh, J. Zietsman, and L. Yu. Characterization of Exhaust Emissions from Heavy Duty Diesel Vehicles in the HGB Area. Project Report for the Texas Department of Transportation (TxDOT) 0-6237, Texas Transportation Institute, 2011 (74 Pages).
3. Shi, Q. and L. Yu. Evaluation of Mobile Source Greenhouse Gas Emissions for Assessment of Traffic Management Strategies. Research Report for the Southwest Region University Transportation Research Center (SWUTC-11-161142-1, Texas Southern University, 2011 (85 Pages).
4. Cooner, S. A., S. E. Ranft, Y. K. Rathod, Y. Qi, L. Yu, Y. Wang, and X. Chen. Development of Guidelines for Triple Left and Dual Right-Turn Lanes: Technical Report. Technical Report 0-6112-1 for Texas Department of Transportation, Texas Transportation Institute, 2011 (190 Pages).
5. Qiao, F., L. Yu, H. Wang, L. Ma, R. Zhang, and Y. Zeng. Warrants for Major Traffic Generator Guide Signing. Research Report Product TxDOT 0-5800-P1 for Texas Department of Transportation, Texas Southern University, 2010 (52 Pages).
6. Qiao, F., L. Yu, H. Wang, L. Ma, R. Zhang, and Y. Zeng. Symbols and Warrants for Major Traffic Generator Guide Signing. Research Report for the TxDOT 0-5800-1 Texas Department of Transportation, Texas Southern University, 2010 (162 Pages).
7. Yu, L., Z. Wang, and Q. Shi. PEMS-based Approach to Developing and Evaluating Driving Cycles for Air Quality Assessment. Research Report for the Southwest Region University Transportation Research Center (SWUTC-10-169300-1, Texas Southern University, 2010 (94 Pages).
8. Qi, Y., X. Chen, L. Yang, B. Wang, and L. Yu. Vehicle Infrastructure Integration (VII) Based-Condition Warning System for Highway Collision Prevention. Research Report for the SWUTC-09-476660-00043-1, Center for Transportation Training and Research (CTTR), Texas Southern University, 2009 (83 Pages).



9. Yu, L., Y. Qi, H. Yu, L. Guo, and X. Chen. Development of Left-Turn Operations Guidelines at Signalized Intersections. Research Report for the TxDOT 0-5840-1 Texas Department of Transportation, Texas Southern University, 2009 (283 Pages).
10. Yu, L., S. Jia, and Q. Shi. A Synthesis of Transportation Emissions Research: Current Status and Future Directions. Research Report for the SWUTC-05-473700-00049, Center for Transportation Training and Research (CTTR), Texas Southern University, 2008 (140 Pages).
11. Yu, L., Y. Qi, M. Azimi, C. Guo, and L. Guo. Left-Turn Lane Design and Operations. Research Report for the TxDOT 0-5290-1 Texas Department of Transportation, Texas Southern University, 2008 (226 Pages).
12. Yu, L., F. Qiao, and F. Soltani. Testing and Modeling of Truck Emissions While Idling. Research Report for the SWUTC-05-167650-1, Center for Transportation Training and Research (CTTR), Texas Southern University, 2005 (84 Pages).
13. Yu, L., F. Qiao, and Z. Song. Evaluation and Combined Use of TRANSYT-7F and CORSIM in Traffic Signal Optimization and Simulation. Research Report for the SWUTC-05-473700-00045, Center for Transportation Training and Research (CTTR), Texas Southern University, 2005 (115 Pages).
14. Yu, L., X. Li, and W. Zhuo. Airport-Related Traffic and Mobile Implications. Research Report TxDOT 0-4317, Texas Department of Transportation. January 2004.
15. Li, X., V. Garg and L. Yu. Evaluation of Highway Safety Improvement Projects. Research Report for the DTFH61-02-X-00106, Federal Highway Administration, 2003.
16. Yu, L., F. Qiao, and L. Li. Probability Generation of Frequency and Severity of Nonrecurring Congestion due to Accidents to Improve Emission Analysis. Research Report TxDOT 0-4073 for Texas Department of Transportation, Texas Southern University, January 2004.
17. Yu, L., F. Qiao, Y. Zhang, Z. Tian, and N. Chaudhary. Yellow and Red Intervals to Improve Signal Timing Plans for Left-Turn Movements. Research Report TxDOT 0-4273, Texas Department of Transportation, January 2004.
18. Yu, L., F. Qiao and G. Li. Forecasting Traffic Characteristics for Air Quality Analyses. Research Report TxDOT 0-4142, Texas Department of Transportation, 2002.
19. Yu, L., F. Qiao, X. Wang and L. Xu. Using Real-Time Traffic Data for Transportation Planning. Technical Report TxDOT 0-4054, Texas Department of Transportation, 2002.
20. Teng, H. L., L. Xu and L. Yu. Synthesis Report on Changeable Message Signs that Depict Symbols and Words. Research Report for the DTFH61-01-X-00126, Federal Highway Administration, 2002.
21. Yu, L., R. Daniel and X. Wang. Pavement Smoothness Strategies. Research Report for the DTFH61-01-X-00111, Federal Highway Administration, 2002.
22. Teng, H. L., L. Yu and Y. Qi. Analytical Tool for Measuring Emission Impact of Acceleration and Deceleration Lanes. Final Report for New Jersey Department of Transportation and Federal Highway Administration, September 2001.
23. Yu, L. Transportation Expertise Pool. Research Report for the DTFH61-00-X-00095, Federal Highway Administration, 2001.
24. Yu, L., F. Qiao, L. Munghor, X. Wang and A. Changpradith. ITS Technology to improve Highway-Rail Grade Crossing Safety. Research Report for the DTFH61-00-X-00089, Federal Highway Administration, 2001.
25. Williams, L. and Yu, L. A Conceptual Examination of the Impact of Traffic Control Strategies on Vehicle Emission and Fuel Consumption. Research Report for the SWUTC-01-467203-1, Center for Transportation Training and Research (CTTR), Texas Southern University, 2001 (72 Pages).

26. Boxill S. and Yu,L. Evaluation of Traffic Simulation Models for Supporting ITS Development. Research Report for the SWUTC-00-167602-1, Center for Transportation Training and Research (CTTR), Texas Southern University, 2000 (104 Pages).
27. Yu,L. Effects of High Emitter Vehicles on the On-Road Vehicle Emission Modeling. Research Report for the SWUTC-00-467600-1, Center for Transportation Training and Research (CTTR), Texas Southern University, 2000 (117 Pages).
28. Yue, P. and Yu,L. Travel Demand Forecasting Models: A Comparison of EMME/2 and QRS II Using a Real-World Network. Research Report for the SWUTC-00-167901-1, Center for Transportation Training and Research (CTTR), Texas Southern University, 2000 (117 Pages).
29. Yu,L. Real-Time Calibration of Platoon Dispersion Model to Optimize the Coordinated Traffic Signal Timings in ATMS Networks. Research Report for the SWUTC/99/Project # 472840-00044-1, Center for Transportation Training and Research (CTTR), Texas Southern University, 1999 (57 Pages).
30. Didikiri, R. and Yu, L. Traffic Counts and Intersection Analysis of Hidalgo and Post Oak Boulevard. Consulting Report Prepared for Harris County Improvement District #1, Center for Transportation Training and Research (CTTR), Texas Southern University, August 1998 (61 Pages).
31. Lede', W. L., Yu, L., Lewis, C.A., and Godazi, K. A Manual for Evaluating Personalized Public Transit Systems. Report prepared for the Dallas Area Rapid Transit (DART) for the Project "Personalized Public Transit System (PPTS) Operational Test" sponsored by FTA and DART, Center for Transportation Training and Research (CTTR), Texas Southern University, 1998 (110 Pages).
32. Yu, L. Collection and Evaluation of Modal Traffic Data for Determination of Vehicle Emission Rates Under Certain Driving Conditions. Research Report 1485-1 (105 Pages), 1485-2 (96 Pages) and 1485-3F (67 Pages) for TxDOT Project No. 0-1485, Center for Transportation Training and Research, Texas Southern University (1998).
33. Yu, L. and Lede', W. N. New Technologies and Methodologies for Evaluating and Analyzing the Implications of Various New Transportation Objectives. Research Report for the SWUTC Project - 466060, Center for Transportation Training and Research, Texas Southern University, 1996 (47 Pages).
34. Yu, L. and Van Aerde, M. Level of Market Penetration Requirements for the Derivation of Link Travel Times from Vehicle Probe Data. Technical Report, Transportation Research Group, Department of Civil Engineering, Queen's University, Canada (1992).

#### **TECHNICAL REPORTS PUBLISHED IN CHINESE**

1. Simulation of Exclusive Bus Lane Scenarios on the Experimental Section of the Western 3rd Ring-Road. Research Report for Beijing Transportation Research Center (BTRC), 2009.
2. Dynamic Traffic Evaluation and Prediction Models for Urban Networks. Research Report for Beijing Transportation Research Center (BTRC), 2008.
3. Feasibility Study of Measures for Alleviating Traffic Congestions in Urban Area. Research Report for Beijing Transportation Research Center (BTRC), 2006.
4. Using OEM Techniques to Improve Vehicle Emissions in Traffic Networks in Beijing. Research Report for Beijing Municipal Commission of Science and Technology, 2005.
5. Planning for Beijing Transportation Scientific and Technological Development. Research Report for Beijing Municipal Commission of Transport, 2005.
6. Comprehensive Transportation Issues and Solutions for Eastern District of Changping Satellite City. Research Report for Changping District Commission of Science and Technology of Beijing, 2004.
7. ITS Data Management Techniques and Theories. Research Report for Ministry of Science and Technology of China, 2004.

8. ITS Data Management Techniques and Applications. Research Report for Ministry of Science and Technology of China, 2004.
9. ITS Data Management Techniques Software. Research Report for Ministry of Science and Technology of China, 2004.
10. Study on ITS Industry Policies in Beijing. Research Report for Beijing Transportation Research Center (BTRC), 2004.
11. Beijing Transportation Development White Paper. Research Report for Beijing Transportation Research Center (BTRC), 2003.
12. Synthesis of ITS Development. Research Report for Beijing Municipal Commission of Science and Technology, 2004.
13. Development of ITS Architecture in Beijing. Research Report for Beijing Municipal Commission of Science and Technology, 2004.
14. Beijing Regional ITS Strategic Planning. Research Report for Beijing Municipal Commission of Science and Technology, 2004.

## **HONORS AND AWARDS**

1. "Passenger Flow Prediction Method and Device between Public Transit Stations based on IC Card Records," Patent #: ZL 2011 1 0136063.6, May 24, 2011 Submission, July 31, 2013 Authorized, China.
2. "Beijing Olympic Transportation Planning and Management Practices," First Place of the Scientific and Technological Award of China Highway Association, Ministry of Transport, China, 2010.
3. "Intelligent Transportation Systems Planning and Implementation in Beijing," Second Place of the Scientific and Technological Award, Beijing Municipal Government, China, 2009.
4. "Beijing ITS Systems Planning," Third Place of 2005 Zhonglianzhongke Cup Chinese Scientific and Technological Award, Ministry of Housing and Urban-Rural Development, China, 2006.
5. "Sampling Techniques-based Approach to the ITS Data Archiving Strategies," Yuntong Cup Excellence Paper Award, Journal of Transportation Systems Engineering and Information Technology, China Systems Engineering Association, 2002.
6. "Road Network Drawing Device and Method," Patent #: ZL 2009 1 0088120.0, July 8, 2009 Submission, November 9, 2011 Authorized, China.
7. "Road Traffic Flow Data Quality Control Method and Device," Patent # : ZL200510011205.0, China, 2008.
8. "Operational Coordination and Optimization Method and System for Transfer from Conventional Transportation to Urban Rail Transportation," Patent # : ZL2009 1 0085091.2, China, 2011.
9. "Traffic Flow Parameter Calibration System," Computer Software Copyright Registration #: 2010SRBJ1665, China, 2010. (Ranked Second)
10. "Road Network Editing System for INTEGRATION," Computer Software Copyright Registration #: 2010SRBJ1664, China, 2010.
11. "Dynamic Vehicle Emission Information Database Query System," Computer Software Copyright Registration #: 2010SRBJ1661, China 2010.
12. "Macroscopic Vehicle Emission Model Software," Computer Software Copyright Registration #: 2010SRBJ1662China, 2010.

13. "Traffic Emission Dynamic Quantification and Display System," Computer Software Copyright Registration #: 2010SRBJ2001, China, 2010.
  14. "ITS Data Aggregation System V1.0," Computer Software Copyright Registration #: 2007SRBJ3050, China, 2007.
  15. "ITS Data Quality Control System V1.0," Computer Software Copyright Registration #: 2007SRBJ3051, China, 2007.
  16. "ITS Data Sampling System," Computer Software Copyright Registration System #: 2007SRBJ3053, China, 2007.
  17. Yangtze River Scholar of Transportation Planning and Management, Beijing Jiaotong University, China (2000).
  18. Department of the Year Award, Texas Southern University, May 2004.
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### **TEACHING EXPERIENCE**

- Highway Traffic Operations
  - Computer Applications in Transportation
  - Travel Demand Forecasting and Analysis
  - Transportation Systems Analysis
  - Principles of Transportation Design and Engineering
  - ITS Technologies and Applications
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### **PROFESSIONAL SERVICES AND AFFILIATION**

- Executive Committee Member, Southwest Region University Transportation Center (SWUTC), 1999-Present.
- Member of TRB Committee on Transportation and Air Quality (ADC20)
- Registered Professional Engineer (#88414) in Texas, U.S.
- 2001 Eisenhower Graduate Transportation Fellowships Panelist, Universities & Grants Programs, U.S. Department of Transportation, 2001.
- Editorial Advisory Board member of Asian Transport Studies, November 2013-Present.
- Invited Editorial Board Member, Journal of Transportation Systems Engineering and Information Technology, 2001-Present.
- Guest Editor, Special Issue of The Open Transportation Journal on "Traffic Safety and Driving Behavior Studies," 2010, <http://www.bentham.org/open/totj/>.
- Advisor to Editorial Board, Journal of ITS, Tsinghua University, China, 2008-Present.
- Chair of Organizational Committee, 2012 International Workshop on Mobile Source PM2.5 Emission Controls, December 18-19, 2012, Beijing, China.
- Chair of Organizational Committee, 2011 International Workshop on Mobile Source Emission Inventory and Transportation Conformity, December 16-17, 2011, Beijing, China.
- Chair of Organizational Committee, 2010 International Workshop on Emission Testing and Modeling, December 17-19, 2010, Xiamen, China.
- Chair of Organizational Committee, 2009 International Workshop on Emission Models, December 17-18, 2009, Beijing, China.

- Chairman of Organization Committee, The 2005 International Workshop on Urban Road Network Reliability, Beijing, China, December 19-20, 2005.
- Invited Member of Scientific Committee, MOE Key Laboratory for Transportation Complex Systems Theory and Technology, Beijing Jiaotong University, 2004-Present.
- Board Member, Transportation Engineering Committee, China Systems Engineering Association, 2004-2008.
- Member of Committee on ITS Technology Applications, Information Committee of China Transportation Association, 2007-Present.
- Technical Assistance Panel in Traffic Operations Committee of TxDOT (RMC 4)
- TSU Representative on Consortium for ITS Training & Education (CITE)
- Member of Institute of Transportation Engineers (# 21803) and Five of Its Councils
- Member of American Society of Civil Engineers (# 35150) and Six of Its Councils
- Member of Transportation Research Board (# 042504-00)
- Member of American Society for Engineering Education (#78711)
- Reviewer for Transportation Research Record: Journal of the Transportation Research Board, Transportation Science, ASCE Journal of Transportation Engineering, Journal of Transportation Research Part A, C, D, IEEE Transactions, Journal of Air & Waste Management Association, Journal of Intelligent Transportation Systems, Journal of Advanced Transportation, Journal of Transportation Systems Engineering and Information Technology, Advances in Transportation Studies.
- Steering Committee Member of ITS: Incorporating the Consumer Conference, Feb 19 & 20, 1998, Houston, Texas.
- International Scientific Committee member of the 1998 International Conference on Traffic and Transportation Studies (ICTTS'98), July 27-29, Beijing, China.
- Member of Technical Committee and Chair of One Technical Session of The 2nd Technical Symposium on Important Issues of Transportation Development in China, NACOTA in Association with TRB Annual Meeting, January 10, 1999, Washington, DC.
- Member of Technical Committee and Chair of One Technical Session of The 3rd Technical Symposium on Important Issues of Transportation Development in China, NACOTA in Association with TRB Annual Meeting, January 9, 2000, Washington, DC.
- Chair of The 4th Technical Symposium on Important Issues of Transportation Development in China, NACOTA in Association with TRB Annual Meeting, January 7, 2001, Washington, DC.
- Chair of The 5th Technical Symposium on Important Issues of Transportation Development in China, NACOTA in Association with TRB Annual Meeting, January, 2002, Washington, DC.
- President-Elect of North America Chinese Overseas Transportation Association (NACOTA), 2001-2003.
- Vice-President of North America Chinese Overseas Transportation Association (NACOTA), 2000-2001.

### **HOSTED POST-DOCTORAL FELLOWS AND SCHOLARS**

1. Qingqi Wei (Senior Visiting Scholar Sept 2014 to August 2015, Associate Professor of Chongqing Jiaotong University)
2. Sicong Zhu (Exchange Ph.D. Student January 1, 2014 – August 31, 2014 from University of Queensland, Australia).
3. Mehdi Azimi (Post Doctor December 1, 2012 - , Ph.D. from Texas A&M University).
4. Haibo Zou (Senior Visiting Scholar Sept 2013 to August 2014, Associate Professor of Chang'an University)

5. Fumin Ren (Senior Visiting Scholar Feb 2009 to August 2009 from Beijing Jiaotong University)
6. Yanli Yu (Visiting Scholar Sept 2006 to March 2007 from Dalian Maritime University)
7. Jifu Guo (Visiting Scholar 2006 from professor of Beijing Transportation Research Center)
8. Huimin Wen (Visiting Scholar 2006 from professor of Beijing Transportation Research Center)
9. Xumei Chen (Visiting Scholar 2006 from professor of Beijing Jiaotong University)
10. Fengxiang Qiao (Post-Doctor 2000-2005 Ph.D. in Hong Kong University of Science and Technology, now assistant professor of Texas Southern University).
11. Xiugang Li (Post-Doctor 2002-2003 Ph.D. in Southeast University, China).
12. Xiubin Wang (Post-Doctor 2001-2002 Ph.D. in University of California in Irvine, now assistant professor of Texas A&M University).
13. Xumei Chen (Post-Doctor 2001-2003 Ph.D. in Southwest Jiaotong University, China, associate professor of Beijing Jiaotong University)
14. Xianghai Meng (Visiting Scholar 2004 from Harbin Institute of Technology, China).
15. Zhenzhou Yuan (Visiting Scholar 2004-2005 from Beijing Jiaotong University, China).
16. Changqing Zheng (Visiting Scholar 2004-2005 from Beijing Municipal Bureau of Public Safety, China).
17. Mokaddes Ali Ahmed (Visiting Scholar 2005 from National Institute of Technology Silchar, India).