

Journal Publications

1. Asaithambi, G., Kanagaraj, V., and Sivanandan, R. Object-oriented methodology for intersection simulation model under heterogeneous traffic conditions. *Advances in Engineering Software*, Elsevier, Vol. 40, No. 10, 2009, pp.1000-1010.
2. Gaspar, L, Veeraragavan, A and Bako.A, Comparison of Road Performance Modeling of India and Hungary, *Acta Technica Jaurinensis International Journal* Vol 2., No.1 Hungary, 2010.
3. Grover, S., and Veeraragavan, A, (2010) Quantification of benefits of improved performance due to good drainage, Paper No.558, *Journal of the Indian Roads Congress* Vol. 71-1, January-March 2010.
4. Grover, S., and Veeraragavan, A, (2010) Research needs in sub-surface drainage for long lasting pavements, *Highway Research Journal*, Vol.3, No.1, *Indian Roads Congress*, January-June 2010.
5. Kanagaraj, V., Srinivasan, K. K., and Sivanandan, R. Modeling vehicular merging behavior under heterogeneous traffic condition. *Transportation Research Record*, Transportation research Board (to be published shortly).
6. Kandhal, P. S., Jain, R.K and Veeraragavan, A, (2010) Guidelines for long lasting highway pavements in India, Paper No. 564, *Journal of the Indian Roads Congress* Vol.71-3, October – December 2010.
7. Kumar A., S and Veeraragavan, A, (2010) Performance based binder type selection using mixed integer programming technique, *Construction and Building Materials*, Vol. 24, 2091-2100.
8. Padiath, A., Lelitha Vanajakshi, and S. C. Subramanian. 'Estimation of Average Space Headway under Heterogeneous Traffic Conditions, *International Journal of Recent Trends in Engineering*, Vol. 3, No. 6, 2010, pp. 6-10.
9. Padmanaban, R.P.S., Divakar, Lelitha Vanajakshi And Subramanian, S.C., AN Automated Real Time Bus Arrival Time Prediction System Incorporating Delays, *IET Journal on Intelligent Transportation Systems*, Vol. 4, No. 3, pp. 189–200, 2010.
10. Pundhir, N.K.S, Shailendra Grover and Veeraragavan, A, (2010) Cold mix design of semi-dense bituminous concrete, *Indian Highways*, *Journal of the Indian Roads Congress*, Vol. 38, No.3, March 2010.
11. Punith, V. S., and Veeraragavan, A, (2010) Evaluation of reclaimed polyethylene – modified asphalt pavements, Vol.38, Issue 5, *ASTM Journal of Materials and Evaluation*, September 2010.
12. Punith, V.S and Veeraragavan, A, (2010) Behaviour of reclaimed polyethylene modified asphalt cement for paving purposes, *ASCE Journal of materials in Civil Engineering* 2010.
13. Ramadurai, G., Ukkusuri, S., Zhao, J., Pang, J-S., Linear Complementarity Formulation for Single Bottleneck Model with Heterogeneous Commuters, *Transportation Research Part B: Methodological*, Volume 44, Issue 2, pg: 193-214, February 2010.
14. Ramadurai, G., Ukkusuri, S., B-Dynamic: An Efficient Algorithm for Dynamic User Equilibrium Assignment in Activity-Travel Networks, Accepted pending minor revisions at *Computer-Aided Civil and Infrastructure Engineering*, Available Online since July 2010.

15. Seshadri, R. and Srinivasan, K. K. An algorithm for determining the most reliable travel time path on a network with normally distributed and correlated link travel times. Accepted for publication in *Transportation Research Record, Journal of the Transportation Research Board*, 2010, Washington, D.C, USA (Forthcoming).
16. Sharma, A., Lelitha Vanajakshi, Nageswara Rao, 'Effect of timers at signalized intersections under heterogeneous traffic conditions', *Journal of the Transportation Research Record* 2130, 2009, pp. 93-100.
17. Siddharthan, R., and Srinivasan, K. K. Random Coefficient Mixed Logit Models based on Generalized Antithetic Halton Draws and Double Base Shuffling. Accepted for publication in *Transportation Research Record, Journal of the Transportation Research Board*, 2010, Washington, D.C, USA (Forthcoming).
18. Srinivasan, K. K., Naidu, G. M., and Sutrala, T. 2009. Heterogeneous Decision Rule Model of Mode Choice Incorporating Utility Maximization and Disutility Minimization. [*Transportation Research Record: Journal of the Transportation Research Board*](#), 2132, 59-68.
19. Ukkusuri, S., Ramadurai, G., Patil, G., A Robust Transportation Signal Control Problem Accounting for Traffic Dynamics, Accepted for publication in *Computers and Operations Research*, Volume 37, Issue 5, pg: 869-879, May 2010.
20. Vanajakshi, L., Subramanian, S. C., and Sivanandan, R., "Travel time prediction under heterogeneous traffic conditions using global positioning system data from buses," *IET Intelligent Transport Systems*, Vol. 3, Issue 1, pp. 1-9, 2009.
21. Vanajakshi, L., Billy M. Williams, Laurence R. Rilett (2009), "An Improved Flow-Based Travel Time Estimation Method from Point Detector Data for freeways", *ASCE Journal of Transportation Engineering*, Vol. 135(1), pp. 26-36.
22. Vasantha Kumar, Lelitha Vanajakshi And Subramanian, S.C., Application of Location Based Data for Traffic State Estimation on Urban Arterial under Heterogeneous Traffic Conditions, Accepted for publication in the *Journal of the Transportation Research Record*, 2011.

Presentations/Publications at International/National Conferences

1. Anusha, S. P. and Sivanandan, R. "Effect of Vehicular Characteristics on Emissions under Heterogeneous Traffic Conditions," National Conference on Recent Innovations in Technology (NCRIT 09), Rajiv Gandhi Institute of Technology, Kottayam, Kerala, India, 2009.
2. Asaithambi, G. and Sivanandan, R., "Microsimulation Modeling Framework for Evaluating Turn Lanes at Signalised Intersections," Proceedings CD, Conference on Infrastructure, Sustainable Transportation and Urban Planning (CISTUP), Indian Institute of Science (IISc.), Bangalore, India, Oct. 18-20, 2010.
3. Bondada, M. V. A. and Sivanandan, R. "Cost-Effective and Implementable Solutions to Reduce Congestion In Indian Cities – Demonstration Project in Chennai," Research Symposium, *Urban Mobility India 2010 Conference and Expo on Sustainable Urban Transport*, Dec. 3-5, 2010, New Delhi (to be published in Proceedings).
4. Dhakar, N. S., and Siva Srinivasan, and Karthik Srinivasan. Urban Transportation Planning Models for Developing Countries, Challenges and Opportunities: Invited Resource Paper, Workshop on Travel Behavior in Rapidly Developing Countries, 12th International Association of Travel Behaviour Researchers (IATBR) Conference, 15th Dec. 2009.
5. Kanagaraj, V. and Sivanandan, R. Modeling Vehicular Merging Behavior under Heterogeneous Traffic Conditions, 8th *International Conference on Traffic and Granular Flow* (Abstract Booklet), June 22-24, 2009, Shanghai, China.
6. Kanagaraj, V., Srinivasan, K. K., and Sivanandan, R. Modeling vehicular merging behavior under heterogeneous traffic condition. 89th *Transportation Research Board Annual Meeting*, CD-ROM (#10-3056), January 10-14, 2010, Washington, D.C., USA.
7. Kumar, V., Lelitha Vanajakshi And Subramanian, S.C., Traffic State Estimation and Prediction under Heterogeneous Traffic Conditions, International conference on advances in Civil Engineering, 2010.
8. Kumar, A., S, Hazera Tahseen, Rajib Mallick and Veeraragavan, A, (2010) Life cycle cost analysis of flexible pavements with modified asphalt mixes – Indian experience, 11th International conference on asphalt pavement, Nagoya, Japan, August 2010.
9. Kumar, V. S. Prediction of traffic stream travel time using buses as probes, Poster presentation in *INDO-US Workshop on Emerging Trends in Intelligent Transportation Systems*, IIT Madras, Feb 11-13, 2010.
10. Mallick, R. B., Bao-Liang Chen, Mingjiang Tao and Veeraragavan, A, (2010) Detecting moisture in hot-mix asphalt, International conference on developments in road transportation, 8-10 October 2010, Rourkela.

11. Mallick, R. B., and Veeraragavan, A, (2010) 100% recycling of hot mix asphalt pavements for urban infrastructure, Conference on infrastructure, sustainable transportation and urban planning, 18-20 October 2010, Bangalore.
12. Murali, L. S., Ramulu D. S., and Srinivasan, K. K. Modal Shift analysis using combined RP and SP data: A case study of Hyderabad Metro. *International Conference on Materials, Mechanics and Management (IMMM), College of Engineering Trivandrum, Jan 14-16, 2010*
13. Padiath, A. S., Lelitha Vanajakshi, and S. C. Subramanian, Estimation of traffic density under Indian traffic conditions. *89th Transportation Research Board Annual Meeting*, CD-ROM (#10-2877), January 10-14, 2010, Washington, D.C., USA.
14. Padiath, A., Lelitha Vanajakshi, and Subramanian, S. C. Prediction of traffic density for congestion analysis under Indian traffic conditions. *12th IEEE Intelligent Transportation Systems Conference*, October 4-7, 2009, St. Louis, USA.
15. Padmanaban, R.P.S., Vanajakshi, L., and Subramanian, S. C. Estimation of Bus Travel Time Incorporating Dwell Time for APTS Applications, *IEEE Intelligent Vehicles Symposium*, 2009.
16. Padmanabhan, R.P.S., Lelitha Vanajakshi and Subramanian, S.C., 'Automated Delay Identification for Bus Travel Time Prediction towards APTS Applications', *IEEE sponsored International Conference on Emerging Trends in Engineering & Technology, India, 2009*.
17. Padmanaban, R.P.S. "Bus Arrival Time Prediction under Heterogeneous Traffic Conditions using Kalman Filtering Technique", *Students Symposium on Research in Civil Engineering*, 2009, IIT Madras.
18. Ramadurai, G., Paravathy, V.S., Mohan, R., Vemulapati, S., An Overview of Dynamic Traffic Assignment Models, *Urban Mobility India 2010 Conference*, New Delhi, Dec 2010.
19. Seshadri, R. and Srinivasan, K. K. An algorithm for determining the most reliable travel time path on a network with normally distributed and correlated link travel times. *89th Transportation Research Board Annual Meeting*, CD-ROM (#10-2001), January 10-14, 2010, Washington, D.C., USA.
20. Lelitha Vanajakshi, Sharma, A., and Lakshmi, R. Red Light Violation Characteristics Under Heterogeneous Traffic Conditions: With and Without Countdown Timers. *89th Transportation Research Board Annual Meeting*, CD-ROM (#10-3819), National Research Council, Washington, D. C., 2010.
21. Siddharthan, R., and K. K. Srinivasan. Random Coefficient Mixed Logit Models based on Generalized Antithetic Halton Draws and Double Base Shuffling. *89th Transportation Research Board Annual Meeting*, CD-ROM (#10-3316), National Research Council, Washington, D. C., 2010.

22. Srinivas, K. and Sivanandan, R. "GIS Application for Traffic Accident Response System," *CHENSAFE 2010 Seminar - Towards Road Safety*, Jan. 4-5, 2010, Anna University, Chennai,
23. Srinivasan, K. K., and Gandavarappu S. A GPS-based Route Choice Analysis under Mixed Traffic and Roadway Conditions in a Developing Country, 12th International Association of Travel Behaviour Researchers (IATBR) Conference, Jaipur, Dec. 2009.
24. Srinivasan, K. K. Travel Time Reliability in Urban Transportation Networks, 1st Indo-German Frontiers of Engineering Symposium, Technologies of Future Transportation, Sponsored by Humboldt Foundation and DST, Chennai, 3rd Oct, 2009.
25. Tiwari, R. and Sivanandan, R. "Evaluation of Urban Access-Controlled Road System as a Congestion Mitigation Strategy," Research Symposium, *Urban Mobility India 2010 Conference and Expo on Sustainable Urban Transport*, Dec. 3-5, 2010, New Delhi (presentation; to be published in Proceedings).