

**CHANDRASEKAR PARSUVANATHAN**

B. E. (Civil Eng.), M. E. (Urban Eng.), PhD (Transportation Engineering, NUS, Singapore, 2001).

Professor

Department of Civil Engineering  
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**Experience: 22 years**

Teaching: 10 years; Industry: 6 years; Research: 6 years.

**Specialization:** Transportation Engineering / Urban Engineering

**Research areas:** simulation modelling, data-driven transport solutions; public transit; traffic management; application of IT in solving transport issues; smart cities related opportunities.

**ACADEMIC PROFILE****Teaching Expertise:**

**For UG:** transportation and traffic related courses; intelligent transportation systems; professional ethics and life skills.

**For PG:** disaster management; research methodology and intellectual property rights; sustainable development.

**RESEARCH AND STUDENT PROJECTS**

**UG scholars:** Simulation modeling

**PG scholar:** Accident analysis

**PhD scholar:** Evaluation of Semi-Urban Transport Corridors

**NOTABLE ACHIEVEMENTS**

Conducted a five-day online Faculty Development Program (FDP) for around 150 assistant professors from across the country. The theme was 'Intelligent Transport Systems'. The program was fully sponsored by AICTE (the apex agency for technical education in India).

**PUBLICATIONS**

Journal Publications:

- Chandrasekar, P., Judah, G. (2016). Comparative Study of Selected Greenfield Development Projects, *Indian Journal of Science and Technology*, ISEE, India. 9(39), pp. 1-8.

- Chandrasekar, P. (2016). Use of Portable Speed Humps near Schools for an Obstruction-Free Traffic Flow During Holidays, *Civil and Environmental Research*, IISTE, USA. 8(1), pp. 42-49.
- Chandrasekar, P. (2015). Proxy-Lane Algorithm for Lane-Based Models to Simulate Mixed Traffic Flow Conditions, *International Journal of Traffic and Transportation Engineering*. Scientific and Academic Publishing, USA. 4(5), pp. 131-136.
- Chandrasekar, P. (2015). Big Data and Transport Modelling: Opportunities and Challenges. *International Journal of Applied Engineering Research*. Research India Publications, New Delhi. 10 (17), pp. 38038-44.
- Lee, D. H., Jeng, S. T. and Chandrasekar, P. (2004). Applying data-mining techniques for Traffic Incident Analysis. *Journal of the Institution of Engineers, Singapore*. Institution of Engineers, Singapore. 44(2), 90-102.
- Lee, D. H. and Chandrasekar, P. (2002). A Framework for Parallel Traffic Simulation Using Multiple Instanting of a Simulation Program. *Journal of Intelligent Transportation Systems: Technology, Planning, and Operations*. Taylor & Francis, UK. 7 (3-4), pp. 279-294.
- Chandrasekar, P., Cheu, R. L. and Chin, H. C. (2002). Simulation evaluation of route-based control of bus operations, *Journal of Transportation Engineering*, ASCE, USA. 128 (6), pp. 519-527.
- Chin, H. C, Cheu, R. L. and Chandrasekar, P. (2002). Application of NETSIM in modelling B-Signals. *Journal of Advanced Transportation*, Wiley, USA. 36 (2), pp. 211 - 224.

#### Conference Publications:

- Lee, D. H., and Parsuvanathan, C. (2017). Assessing Passenger Feedback Reliability in Crowd-Sourced Measurement of Transit Ride Quality. IEEE ITSC Conference, Yokohama, Japan.
- Chandrasekar, P., Chan, W. T., Lee, D. H., Wee, S. H. and Cheu, R. L. (2002). A simulation-driven internet-based predictive traffic information hub. IEEE 5th International Conf. on Intelligent Transportation Systems, Singapore.
- Lee, D. H., Huang, W. and Chandrasekar, P. (2002). A multi-level approach for selective bus pre-emption. In Proceedings of the 2002 ITS World Congress, Chicago, USA.
- Lee, D. H., Jeng, S. T. and Chandrasekar, P. (2002). Applying data-mining technique to traffic diversion. In Proceedings of the 2002 ITS World Congress, Chicago, USA.
- Lee, D. H., Jeng, S. T. and Chandrasekar, P. (2002). Investigating an incident situation using data mining. In Proceedings of the 81st Annual Meeting of TRB, Washington, D. C., USA.

- Lee, D. H., Chandrasekar, P. and Cheu, R. L. (2001). Customized simulation modelling using PARAMICS application programming interface. In Proceedings of the IEEE 2001 International Conference on Intelligent Transportation Systems, IEEE, Singapore.
- Lee, D. H., Yang, X. and Chandrasekar, P. (2001). Parameter calibration for Paramics using genetic algorithm. In Proceedings of the 80th Annual Meeting of TRB, Washington, D. C., USA.
- Chandrasekar, P., Chin, H. C. and Cheu, R. L. (2000). Modelling route-based control of bus operations using Paramics. In Proceedings of the International Conference on Applications of Advanced Technologies in Transportation Engineering, Singapore.
- Chandrasekar, P., Chin, H. C. and Cheu, R. L. (1999). A study of performance of bus priority signals. In Proceedings of the International Conference on ITS, Adelaide, Australia.

Google Scholar:

[https://scholar.google.co.in/citations?hl=en&user=izLvXcYAAAAJ&view\\_op=list\\_works](https://scholar.google.co.in/citations?hl=en&user=izLvXcYAAAAJ&view_op=list_works)

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