

International/National Conferences

1. J.M.R.S. Jayakodi, **Darshana Othayoth**, T. V. Rameesha and B Anish Kini (2025). "Prioritization of Attributes Influencing Sustainable Integration Between Kochi Water Metro and Other Transport Modes". In 8th Conference of Transportation Research Group of India (CTRG 2025), IIT Guwahati. (Accepted)
2. Dhanavath Naga, **Darshana Othayoth**, T. V Rameesha and B. Anish Kini (2025). "MCDM Based Approach for Prioritizing the Attributes Influencing Service Quality of Water Metro". In 8th Conference of Transportation Research Group of India (CTRG 2025), IIT Guwahati. (Accepted)
3. Niranjana Mavelil and **Darshana Othayoth** (2025). "Modelling the Safety Perception of Public Bus Transportation in Tiruchirappalli City". In 8th Conference of Transportation Research Group of India (CTRG 2025), IIT Guwahati. (Accepted)
4. Musharraf Khurshid, **Darshana Othayoth** and Dilum Dissanayake (2025). "Assessing Elderly Users' Perceived Level of Satisfaction towards Public Transportation". In *International Conference of Eastern Asia Society for Transportation Studies (EASTS 2025)*, Indonesia. (Accepted)
5. Krishnakishore Madurai and **Darshana Othayoth** (2025). "Understanding How Parents and Peers Shape Risky Riding Behaviour in Motorized Two-Wheeler Riders". In 7th Bridging Transportation Researchers (BTR) Online Conference, August 6-7, 2025.
6. Krishnakishore Madurai and **Darshana Othayoth** (2025). "Assessing the Influence of Socio-Demographic Factors on Risky Riding Behaviour Among Motorised Two-Wheeler Riders". In *11th Conference of Transportation Systems Engineering and Management (CTSEM 2025)*, MANIT Bhopal.
7. Musharraf Khurshid and **Darshana Othayoth** (2025). "Prioritizing Attributes Influencing Elderly Users' Perceived Level of Satisfaction with Bus Transit Service using Impact Asymmetry Analysis". In *11th Conference of Transportation Systems Engineering and Management (CTSEM 2025)*, MANIT Bhopal.
8. Ardra S. Krishna and **Darshana Othayoth** (2025). "Evaluation of Compliance of Motorized Two-wheeler Lanes on a Two-lane Undivided Highway in Kerala". In the *37th Kerala Science Congress*, Kerala Agricultural University, Vellanikkara, Thrissur.
9. **Darshana Othayoth**, T. V. Rameesha and B Anish Kini (2025). "Factors Influencing Passenger Satisfaction with Water Metro: An Ordered Probit Model Estimation". In 104th Transportation Research Board Annual Meeting, Washington D.C., USA.
10. Rohit Kumar Gupta and **Darshana Othayoth** (2025). "Determinants of Helmet Usage among Motorized Two-Wheeler Riders: A Case Study of Tiruchirappalli City". In 104th Transportation Research Board Annual Meeting, Washington D.C., USA.
11. Niranjana S Mavelil, Aashish Ratnakarji Patil and **Darshana Othayoth** (2024). "Study on Behavior of Social Groups in Pedestrian Flow at Staircase of Foot-Over Bridge of a Railway Station". In *15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2024)*, IIT Bombay, Mumbai, India.

12. Halavath Nithinkumar and **Darshana Othayoth** (2024). “Modelling Mode Choice Behavior Between City Bus Services and Shared Motorized Three-Wheeler Services in Hyderabad City”. In *15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2024)*, IIT Bombay, Mumbai, India.
13. Ajay Rajendra Kshirsagar, **Darshana Othayoth**, T. V. Rameesha and B Anish Kini (2024). “Prioritizing Improvement of Service Attributes of Water Metro using Impact Asymmetry Analysis”. In *15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2024)*, IIT Bombay, Mumbai, India.
14. Remya K Padinjarapat , **Darshana Othayoth**, K V Krishna Rao and Tom V Mathew (2024). “Developing Base Saturation Flow Model and Adjustment Factors for Signalized Intersections under Non-Lane based Mixed Traffic Conditions”. In *15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2024)*, IIT Bombay, Mumbai, India.
15. Jayakodi Mudiyansele Roshani Shashikala Jayakodi, T. V. Rameesha, B Anish Kini and **Darshana Othayoth** (2024). “Enhancing Kochi Water Metro Ridership: A Study of User Satisfaction Indicators and Perceptions”. In *15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2024)*, IIT Bombay, Mumbai, India.
16. Ardra S. Krishna, Bhargava Rama Chilukuri and **Darshana Othayoth** (2024). “Traffic flow characteristics of an undivided two-lane road with Inclusive Motorised Two wheeler lanes: A Case study”. In *15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2024)*, IIT Bombay, Mumbai, India.
17. Ardra S. Krishna, **Darshana Othayoth** and Bhargava Rama Chilukuri (2024). “Assessment of motorised two-wheeler lane compliance on a two-lane highway in Kerala”. In *International Conference on Recent Advances in Civil Engineering (ICRACE 2024)*, Cochin University of Science and Technology, December 12-14, 2024.
18. Raahul M N and **Darshana Othayoth** (2024). “Modelling mode shift to sub urban trains: A case study of Chennai city.” In *5th IRF Asia-Pacific Regional Congress & 12th Malaysian Road Conference & Exhibition 2024*, November 5 – 7, 2024, Kuala Lumpur, Malaysia.
19. Diptendu Biswas and **Darshana Othayoth** (2024). “Investigating the Relationship between Roadside Friction and Traffic Flow Characteristics of Urban Streets.” In *Recent Advances in Infrastructure Development (RAID 2024)*, February 12-13, 2024, NIT Calicut.
20. Raahul M N and **Darshana Othayoth** (2024). “Modelling Modal Shift due to Enhancement of Quality of Service of Suburban Trains.” In *Recent Advances in Infrastructure Development (RAID 2024)*, February 12-13, 2024, NIT Calicut.

21. Shreyas Gore and **Darshana Othayoth** (2024). "Locating Wayside Amenities on Highways: State of the Art Review." In *Recent Advances in Infrastructure Development (RAID 2024)*, February 12-13, 2024, NIT Calicut.
22. Uttej Matavalam and **Darshana Othayoth** (2023). "Modelling the Speeding Behaviour of Motorized Two-Wheeler Riders Using Structural Equation Approach." In *7th Conference of Transportation Research Group of India (CTRG 2023)*, December 17-20, 2023, SVNIT Surat, India.
23. Ghansham Mukalwar, **Darshana Othayoth**, S Mariasamynathan and Ravisekhar Chalumuri (2023). "Modelling the Trip-Making Behavior of Residents of Mysore City, India." In *14th International Conference of Eastern Asia Society for Transportation Studies (EASTS 2023)*, September 4-7, 2023, Shah Alam, Malaysia.
24. Tiwari Prince Anilkumar, Marisamynathan S. and **Darshana Othayoth** (2023). "Development of Mode Share Models for Visitors and Employees of Establishment in Chennai City". In *Second National Conference on Environmental Geotechnology and Sustainable Civil Engineering (NCEGSCE-23)*, Tiruchirappalli, Tamil Nadu, India.
25. Buddiga Venkata Durga Prasad and **Darshana Othayoth** (2023). "Modelling Motorized Two-Wheeler Riders Risky Riding Behaviour." In *International Conference of Eastern Asia Society for Transportation Studies (EASTS 2023)*, September 4-7, 2023, Shah Alam, Malaysia.
26. Pratibha Baghel, Aneesh Mathew and **Darshana Othayoth** (2023). "Modeling Vehicular Emissions Using International Vehicle Emission Model." In *International Conference on Resource Sustainability (icRS 2023)*, August 7-9, 2023, Guildford, Surrey, the United Kingdom.
27. Siddharth Shankar and **Darshana Othayoth** (2023). "Evaluating the Level of Integration in terms of Sustainability Between Public Transport Modes and Paratransit Systems: A Case Study of Kochi city, India." In *International Conference on Resource Sustainability (icRS 2023)*, August 7-9, 2023, Guildford, Surrey, the United Kingdom.
28. Dindigala Prem and **Darshana Othayoth** (2023). "Mode Choice Modelling of Shopping Trips Considering Heterogeneity Among Individuals." In *Bridging Transportation Researchers (BTR) Conference Online*, August 9-10, 2023.
29. Remya K Padinjarapat, **Darshana Othayoth**, K.V. Krishna Rao and Tom V Mathew (2023). "Developing Base Saturation Flow Model and Adjustment Factors for Signalized Intersections under Non-Lane based Mixed Traffic Conditions". In *World Conference on Transport Research-WCTR 2023*, Montreal, Canada.
30. Akhil Chowhan and **Darshana Othayoth** (2023). "In-vehicle Distraction in Novice Driver and Experienced Driver: A Comparative Study". In *International Conference on Innovative Methods and Practical Applications for Cognizant Transportation Systems (IMPACTS 2023)*, 20-22, March 2023, CET Trivandrum, Kerala.
31. Remya K Padinjarapat, **Darshana Othayoth**, K. V. Krishna Rao and Tom V Mathew (2022). "Effect of Land Use Pattern on Bus Blockage Duration at Curb Side Bus Stops". In *14th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2022)*, IIT Bombay, Mumbai, India.

32. Krishnakishore Madurai and **Darshana Othayoth** (2022). "Development of an Indian Motorised Two-Wheeler Rider Behaviour Questionnaire". In *14th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2022)*, IIT Bombay, Mumbai, India.
33. Abhinav Mishra, Mohan Rao and **Darshana Othayoth** (2022). "A Review of Safety and Operational Impacts of Various Speed Limits". In *14th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2022)*, IIT Bombay, Mumbai, India.
34. Aravindhnan T, Raswanth Prasath S.V., R S Hiruthick Roshan and **Darshana Othayoth** (2022). "Collision Avoidance System using Reinforcement Learning". In *4th International Conference on Communication and Intelligent Systems (ICIS 2022)*, NIT Delhi, India.
35. Krishnakishore Madurai and **Darshana Othayoth** (2022). "An Exploratory Factor Analysis of an Indian Motorised Two-Wheeler Rider Behaviour Questionnaire". *Recent Advances in Traffic Engineering (RATE 22)*, NIT Surat, India.
36. Abhinav Mishra, Mohan Rao and **Darshana Othayoth** (2022). "Analysing Safety Aspect of Differential Speed Limit (DSL) on Various Class of Roads Worldwide – A Review". In *International Virtual Conference on Smart and Sustainable Development of Urban Green Infrastructure in India and Canada (SSDUGI-2022)*, NIT Tiruchirappalli, India.
37. Teena Roy, **Darshana Othayoth** and B. K. Bhavathrathan (2021) "Age and Gender Differences in Motorised Two-Wheeler Safety Perceptions." In *6th Conference of Transportation Research Group of India (CTRG 2021)*, NIT Tiruchirappalli, India.
38. Banavathu Nagu Naik and **Darshana Othayoth** (2021). "Modelling Pedestrian Perceived Level of Service of Sidewalks using Structural Equation Approach." In *6th Conference of Transportation Research Group of India (CTRG 2021)*, NIT Tiruchirappalli, India.
39. Vishal Devalalika and **Darshana Othayoth** (2021). "Importance Satisfaction Analysis of the Determinants of Customer's Perceived Service Quality of Online Cab Services in India." In *6th Conference of Transportation Research Group of India (CTRG 2021)*, NIT Tiruchirappalli, India.
40. Rameshwar Metage and **Darshana Othayoth** (2021). "Modelling User Perceived Service Quality of Indian Railway Platforms Using Structural Equation Modeling." In *14th International Conference of Eastern Asia Society for Transportation Studies (EASTS 2021)*, Hiroshima, Japan.
41. Vishal Devalalika and **Darshana Othayoth** (2021). "Modelling Customer's Perceived Service Quality and Customer behavior towards Online Cab Services in India." In *14th International Conference of Eastern Asia Society for Transportation Studies (EASTS 2021)*, Hiroshima, Japan.
42. Rameshwar Metage and **Darshana Othayoth** (2021). "User perceived service quality of Indian Railway platform using Structural Equation modelling and importance-performance map analysis: A case study of Tiruchirappalli Railway junction." In *8th International Conference on Transportation Systems Engineering and Management (CTSEM 2021)*, NIT Calicut, India.

43. Vishal Devalalikar and **Darshana Othayoth** (2021). "Artificial Neural Network for analyzing the customers perceived service quality and satisfaction of online cab services." In *8th International Conference on Transportation Systems Engineering and Management (CTSEM 2021)*, NIT Calicut, India.
44. Vishal Devalalikar and **Darshana Othayoth** (2020). "Modelling Customers Perceived Service Quality of Online Cab Services Using Structural Equation Modelling." In *7th Conference of Transportation Systems Engineering and Management (CTSEM 2020)*, KSCSTE-NATPAC, India.
45. Anisha Biswal and **Darshana Othayoth** (2020). "Mode Choice Modeling and Analysis of Influencing Factors in the Wake of COVID-19." In *13th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2020)*, IIT Bombay, Mumbai, India.
46. **Darshana Othayoth** and K. V. Krishna Rao (2019). "Assessing the Relationship between Perceived Waiting Time and Level of Service at Signalized Intersection." In *13th International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Colombo, Sri Lanka, 9-12 September.
47. **Darshana Othayoth** and K. V. Krishna Rao (2019). "Modeling User Perceived Level of Service at Signalized Intersection using Fuzzy Logic Approach." In *World Conference on Transport Research-WCTR 2019*, IIT Bombay, Mumbai, India.
48. **Darshana Othayoth** and K. V. Krishna Rao (2019). "Investigating the Relation between Level of Service and Volume-to-Capacity Ratio at Signalized Intersection." In *World Conference on Transport Research-WCTR 2019*, IIT Bombay, Mumbai, India.
49. Yogeshwar V Navandar, **Darshana Othayoth**, Ashish Dhamaniya and Dilip A Patel (2019). "Analysis of Level of Service at Manually Operated Toll Plaza using Fuzzy Logic Approach." In *World Conference on Transport Research-WCTR 2019*, IIT Bombay, Mumbai, India.
50. **Darshana Othayoth** and K. V. Krishna Rao (2019). "Modeling User Perceived Level of Service at Signalized Intersection under Heterogeneous Traffic Condition." Proceedings (CD-ROM) of *98th Transportation Research Board Annual Meeting*, Washington D.C., USA.
51. **Darshana Othayoth** and K. V. Krishna Rao (2017). "Modified Delay Model for Heterogeneous Traffic at Signalized Intersection." In *4th Conference of Transportation Research Group of India (CTRG)*, IIT Bombay, Mumbai, India.
52. **Darshana Othayoth** and K. V. Krishna Rao (2017). "Importance-Satisfaction Analysis of the Determinants of Users' Perceived Level of Service at Signalized Intersection." Proceedings of *National Conference on Roads and Transport (NCORT-2017)*, IIT Roorkee, October 14-15.
53. **Darshana Othayoth** and K. V. Krishna Rao (2017). "Modeling User Perceived Level of Service of Signalized Intersection using Fuzzy Logic." Proceedings of *CODATU XVII and Urban Mobility India (UMI) Conference*, Hyderabad, India.
54. **Darshana Othayoth** and K. V. Krishna Rao (2017). "Statistical Analysis of User Perceived Level of Service at Signalized Intersection." Proceedings (CD-ROM) of *96th Transportation Research Board Annual Meeting*, Washington D. C., USA.
55. **Darshana Othayoth** and K. V. Krishna Rao (2016). "Factors Influencing User

Perception of LOS at Signalized Intersection under Mixed Traffic Condition.”
Proceedings of 12th *Conference of Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, India.

56. **Darshana Othayoth** and B. K. Katti (2015). “Trip Distribution using Fuzzy Logic Approach.” In *3rd Conference of Transportation Research Group of India (CTRG)*, Kolkata, West Bengal, India.
57. **Darshana Othayoth** and B. K. Katti (2014). “Modelling Trip Distribution using Fuzzy Logic in a Fast Developing Metropolitan City, Surat.” In *Colloquium on Transportation Systems Engineering and Management (CTSEM)*, NIT Calicut, May 12-13.
58. **Darshana Othayoth**, Ashu S Kedia and B.K. Katti (2014). “A Comparative Trip Rate Analysis and Modelling Under Urban and Rurban Environment: A Case Study.” In *Transportation Young Researchers Symposium (TYRES)*, NIT Warangal, March 28-30.
59. **Darshana Othayoth** and B. K. Katti (2014). “Urban Trip Distribution Modelling using Composite Fuzzy Logic Approach in Metropolitan City Background – A Case Study of Surat.” In *International Conference on Recent Trends in Engineering & Technology (ICRTET)*, Cochin, Jan 18-19.
60. **Darshana Othayoth** and Kumkuma, I. P. (2012). “Traffic Forecasting and Estimation of Facilities at Beypore Port.” In *National Level Technical Symposium* Organized by Anna University, March 29.