

Dr. RITVIK CHAUHAN

Assistant Professor, Department of Civil Engineering
National Institute of Technology Tiruchirappalli

CONFERENCES PAPERS

International Conferences

1. **Ritvik Chauhan**, Satish Chandra. Data Driven Approach for Drivers Decision Prediction in Type-II Dilemma at Signalized Intersection. 103rd *Transportation Research Board Annual Meeting*. 10th -14th January 2024. Washington D.C., USA. <https://annualmeeting.mytrb.org/OnlineProgram/Details/21325>
2. **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar. Modelling Rear-end Conflicts for Proactive Safety Evaluation of Signalized Intersection with Weak Lane disciplined Mixed Traffic Condition. 6th *Conference of the Transportation Research Group of India (CTRG2021)*, 17th - 20th December 2023, Surat, India.
3. **Ritvik Chauhan**, Hareshkumar Golakiya, Ashish Dhamaniya. Analysis of Undesignated pedestrian Road Crossings using Trajectory Data for Aggressive and Cautious Behaviour. 6th *Conference of the Transportation Research Group of India (CTRG2021)*, 17th - 20th December 2023, Surat, India.
4. **Ritvik Chauhan**, Ashish Dhamaniya, & Shriniwas Arkatkar. Modelling Rear-end Conflicts at Signalized Intersection with Weak Lane-disciplined Mixed Traffic Condition. 16th World Conference of Transportation Research Society (WCTRS-2023), 17th - 21st July 2023, Montreal, Canada. http://wctr2023.ca/pdfs/BOOKLET_WCTR2023.pdf
5. **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar & Said Easa. Safety Assessment for Rear End Conflicts in Weak Lane Disciplined Traffic Due to Dilemma Zone at Signalized Intersections. 102nd Transportation Research Board Annual Meeting (TRBAM), 08th - 12th January 2023, Washington D.C., USA. <https://annualmeeting.mytrb.org/OnlineProgram/Details/19480>
6. Ninad Gore, **Ritvik Chauhan**, Said M Easa, Shriniwas S Arkatkar. Comprehensive Traffic Conflict Assessment Framework Using Macroscopic Traffic Flow Variables: A Novel Method for Trajectory-Based Proactive Safety Assessment. 102nd Transportation Research Board Annual Meeting (TRBAM), 08th - 12th January 2023, Washington D.C., USA. <https://annualmeeting.mytrb.org/OnlineProgram/Details/19480>
7. **Ritvik Chauhan**, Ashish Dhamaniya, & Shriniwas Arkatkar. Assessing and quantifying the dynamics of complex vehicular interactions at signalized intersections under disordered traffic conditions. 14th *International Conference of Traffic & Granular Flow (TGF)*. 15th - 17th October 2022. Indian Institute of Technology Delhi, India. (Paper ID: 4337) <https://tgf.iitd.ac.in/Abstracts.pdf>
8. **Ritvik Chauhan**, Ashish Dhamaniya, & Shriniwas Arkatkar. Conflict Based Safety

Performance Functions towards Traffic Safety Assessment at Signalized Intersections with Disordered Traffic Conditions. *2nd International Conference on Transportation Infrastructure Projects: Conception to Execution (TIPCEE)*. Transportation Engineering Group, Department of Civil Engineering, IIT Roorkee. 14th - 17th September 2022 (Paper ID: 5407)
<http://tipce.iitr.ac.in/wp-content/uploads/2022/09/Technical-sessions-14-9.pdf>

9. **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar. Challenges in Rear-end Conflicts Based Safety Assessment of Highly Disordered Traffic Conditions. *101st Transportation Research Board Annual Meeting (TRBAM)*, 14th - 17th January 2022, Washington D.C., USA. (Paper ID: TRBAM-22-04904)
<https://annualmeeting.mytrb.org/OnlineProgram/Details/17193>
10. Harendra Pratap Singh, **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar. Study of Rear-end Conflicts due to Dilemma during the Amber Phase at Signalized Intersection under Mixed-Traffic Condition. *101st Transportation Research Board Annual Meeting (TRBAM)*, 14th - 17th January 2022, Washington D.C., USA. (Paper ID: TRBAM-22-04904)
<https://annualmeeting.mytrb.org/OnlineProgram/Details/17193>
11. Sivannarayana Mindala, **Ritvik Chauhan**, Ashish Dhamaniya, Kamini Gupta, Mohan Rao. Rear-end Conflict Assessment at Toll-plazas Operating with Mixed Traffic Conditions. *101st Transportation Research Board Annual Meeting (TRBAM)*, 14th - 17th January 2022, Washington D.C., USA. (Paper ID: TRBAM-22-04215)
<https://annualmeeting.mytrb.org/OnlineProgram/Details/17509>
12. **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar, Md. M. Haque. Defining Threshold Values for Identifying Rear-end Conflicts in Mixed Traffic Conditions. *6th Conference of the Transportation Research Group of India (CTRG2021)*, 14th - 17th December 2021, Tiruchirappalli, India. (Paper ID: 265)
13. Harendra Pratap Singh, **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar. Study of Driver Behaviour in Dilemma Zone at Signalized Intersection Operating under Mixed-Traffic Condition. *6th Conference of the Transportation Research Group of India (CTRG2021)*, 14th - 17th December 2021, Tiruchirappalli, India (Paper ID: 283) (***Received: Best Poster Award***)
14. Yawar Ali, **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar. Application of Empirical & Simulated Vehicle Trajectories in Risk Assessment at Signalized Intersection. *24th Euro Working Group on Transportation (EWGT 2021)*, 8th - 10th September 2021, Aveiro, Portugal. *Transport Research Procedia*, 62, 782-789, 2022.
<https://doi.org/10.1016/j.trpro.2022.02.097>
15. **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar. Driving Behaviour at Signalized Intersections Operating under Disordered Traffic Conditions. *100th Transportation Research Board (TRB) Annual Meeting*, 21st -24th January 2021, Washington, D.C, U.S.A. (Paper ID: TRBAM-21-04116).
<https://annualmeeting.mytrb.org/OnlineProgramArchive/Details/15866>

16. **Ritvik Chauhan**, Narayana Raju, Ashish Dhamaniya, Shriniwas Arkatkar. Vehicle Behaviour Parameters Estimation at Signalized Intersection Under Mix Traffic Condition using Trajectory Data. 99th Transportation Research Board (TRB) Annual Meeting 12th - 16th January 2020, Washington, D.C, U.S.A.
<https://annualmeeting.mytrb.org/OnlineProgramArchive/Details/14088>
17. **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar. Control Delay Estimation at Signalized Intersections using Trajectory data. Presented at 5th CTRG, 18th - 21st December 2019. *Transportation Research - Proceedings of the Fifth International Conference of Transportation Research Group of India*, 543-558.
https://link.springer.com/chapter/10.1007/978-981-16-8259-9_35
18. **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar, Prasanta Sahu and Durgesh Vikram, "Effect of Side Friction Parameter on Urban Road Traffic: Under Mixed Traffic Scenario", 13th International Conference of Eastern Asia Society for Transportation Studies (EASTS), Colombo (Sri Lanka), September 09th-11th, 2019. (Paper ID: PP2444)
19. Hareshkumar Golakiya, **Ritvik Chauhan**, Ashish Dhamaniya, "Mapping Pedestrian-Vehicle behavior at urban undesignated mid-block crossings under mixed traffic environment - A trajectory-based approach" 15th World Conference of Transportation Research Society (WCTRS-2019), Held at IIT-Bombay on 26th - 31st May 2019. (Paper ID C4_OS1_03).
Transportation Research Procedia, 48, 1263-1277.
<https://doi.org/10.1016/j.trpro.2020.08.148>
20. **Ritvik Chauhan**, Prasanta Sahu, Durgesh Vikram and Akhilesh Kumar Maurya. Effect of Side Friction on Urban Road Capacity. 4th Conference of the Transportation Research Group of India (CTRG-2017) between 18th - 21st December 2017, Indian Institute of Technology Bombay, Maharashtra, India. (Paper Id: 384).
<https://www.civil.iitb.ac.in/ctrg2017/schedule.html>

National Conferences

21. **Ritvik Chauhan**, Ashish Dhamaniya, & Shriniwas Arkatkar. Safety Assessment for Rear-End Conflicts in Weak Lane Disciplined Traffic due to Dilemma Zone at Signalized Intersections. 4th National Conference on Recent Advances in Traffic Engineering (RATE). S.V. National Institute of Technology, Surat, India. 11th - 12th November 2022 (Paper ID: 9880) **(Best Paper Award)**
22. **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar. Effect of Heterogeneity on Safety aspects at Signalized Intersection using Surrogate Safety Measures. 7th Conference on Transportation Systems Engineering and Management. December 29-30, 2020, KSTCE-NATPAC and College of Engineering Trivandrum, India. **(Best Paper Award)**.
23. Vattsal Shah, **Ritvik Chauhan**, Ashish Dhamaniya, Shriniwas Arkatkar, Bhalchandra

Khode. Driving Behaviour Analysis for Mixed Traffic Condition with Weak Lane Discipline after Departing from Signalized Intersection. *2nd ASCE Conference on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies*, 02nd - 4th March 2020, Kolkata, India.

24. Hareshkumar Golakiya, **Ritvik Chauhan**, Ashish Dhamaniya, "Identifying the degree of Aggression in a Vehicle-Pedestrian Conflict at Undesignated Road Crossings". *Indian Road Congress - Young (IRC-Y) Conference 2018*, Nagpur, 27th - 28th October 2018.
25. Hareshkumar Golakiya, **Ritvik Chauhan**, Ashish Dhamaniya, "Behavioral Analysis of Pedestrian and Vehicular Drivers During conflict at Undesignated Mid-Block Crosswalk". *3rd National Conference on Recent Advances in Traffic Engineering (RATE 2018)*, Surat, Gujarat, India, 11th -12th August 2018.
26. Hareshkumar Golakiya, **Ritvik Chauhan**, Ashish Dhamaniya. "Pedestrian risk analysis at Undesignated Mid-Block section". *3rd National Conference on Recent Advances in Traffic Engineering (RATE2018)*, Surat, Gujarat, India, 11th -12th August 2018.