National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile: 1-2 paragraphs (not exceeding 500 words)

1. Name: Dr. Ritvik Chauhan
2. Designation: Assistant Professor (Grade II)
3. Office Address: 305, Annex Building, Department of Civil Engineering, NIT-Tiruchirappalli, Thuvakudi, Tamil Nadu -620015
4. Telephone (Direct):
   Telephone Extn:
   Mobile (Optional
5. Email (Primary): chauhan@nitt.edu Email (Secondary): ritvikdchauhan@gmail.com
6. Field(s) of Specialization: Transportation Engineering
7. Employment Profile

Job Title	Employer	From	To
Assistant Professor (Grade II)	NIT Tiruchirappalli	08-Apr-2024	Present
Postdoctoral Research Fellow	IIT-Roorkee (DST-SERB NPDF)	06-Dec-2022	22-Mar-2024

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat	2022		Civil Engineering
Masters	Birla Institute of Technology & Science (BITS) Pilani, Pilani Campus	2017	I	Transportation Engineering
B. Tech	G. H. Raisoni College of Engineering, (RTMNU)	2014	I	Civil Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
-	-	-	-

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
-	-	-	-

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2022	Best Paper Award	4th RATE Conference at SVNIT-Surat
2021	Globalink Research Award	Mitacs Canada
2021	Best Poster award	6th CTRG Conference at NIT-Trichy
2020	Best Paper Award	7th CTSEM Conference by NATPAC

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2022	National Postdoctoral Fellowship	Science and Engineering Research Board (SERB) - DST	December 2022	March 2024

13. Details of Academic Work
(i) Curriculum Development
(ii) Courses taught at Postgraduate and Undergraduate levels:

UG	PG
Transport Planning	Transport Economics

(iii)Projects guided at Postgraduate level (Ongoing)

Si. No.	Project Title
1	Usage of Acceleration and Speed Data of Public Transit Buses for Identify Aggressive Driving Behavior and Hazardous Driving Location
2	Modelling Driving Behaviour and Decision During Phase Change at Signalised Intersection Using Vehicle Trajectory Data
3	Availability and Accessibility Assessment of Bus Public Transit System; A Case Study of Jaipur City
4	Study and Analysis of Traffic Noise Near Hospital and Educational Institutions
5	Evaluation and Comparision of Reaction Time of Young Adults in Normal Condition and in Simulated Driving Condition

(iv)Other contribution(s): -

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Assessing Microscopic Traffic Behaviour During the Dilemma in Decision making at Signalized Intersections and its Implications on Safety Aspects	Science and Engineering Research Board (SERB), under Department of Science and Technology (DST), Government of India	December 2022	December 2024	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
-	-	-	-

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
-	-	-	-	-	-

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
-	-	-	-	-

18. Invited Talks delivered

Topic	Date	Inviting Organization
-	-	-

19. Membership of Learned Societies

Type of Membership (Ordinary	Organization	Membership No. with

Member/ Honorary Member / Life Member)		date
-	-	-

20. Academic Foreign Visits

Country	Duration of Visit	Programme
-	-	-

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Ritvik Chauhan, Satish Chandra	Data Driven Approach for Prediction of Drivers Decision in Type-II Dilemma at Signalized Intersection	Journal of Transportation Engineering, Part A: Systems	151	19	2024	1.93
Ritvik Chauhan, Ashish Dhamaniya, Shriniwas Arkatkar, Md Mazharul Haque	A Conflict based Safety Assessment Technique for Comparing Rear-end Crash Risk at Signalized Intersections between Homogeneous and Heterogeneous Traffic Condition	Safety Science	161 (May)	106075	2023	6.1
Ninad Gore, Ritvik Chauhan, Said M Easa,	Traffic Conflict Assessment Using	Accident Analysis and Prevention	185 (June)	107020	2023	5.9

Shriniwas S Arkatkar	Macroscopic Traffic Flow Variables: A Novel Framework for Real-Time Applications					
Ritvik Chauhan, Ashish Dhamaniya, & Shriniwas Arkatkar	Analysing Driver's Decision in Dilemma Zone at Signalized Intersections under Disordered Traffic Conditions	Transportation Research Part F: Traffic Psychology and Behaviour	89 (August)	222-235	2022	4.1
Ritvik Chauhan, Ashish Dhamaniya, & Shriniwas Arkatkar	Challenges in Proactive Safety Assessment of Rear-end Conflicts using Surrogate Safety Measures for Mixed Traffic Conditions	Transportation Research Record	2677 (2)	624-634	2022	1.7
Hareshkumar Golakiya, Ritvik Chauhan, Chintaman S. Bari & Ashish Dhamaniya	Pedestrian Safety Analysis at Urban Midblock Section under Mixed Traffic Conditions Using Time to Collision as Surrogate Safety Measure	Current Science	123 (09)	1117-1128	2022	1.169
Ritvik Chauhan, Ashish Dhamaniya, & Shriniwas Arkatkar	Spatiotemporal Variation of Rear-End Conflicts at Signalized Intersections	Journal of Transportation Engineering, Part A: Systems	147 (11)	05021007 (1-14)	2021	1.93

	under Disordered Traffic Conditions					
Ritvik Chauhan, Ashish Dhamaniya, & Shriniwas Arkatkar	Driving Behavior at Signalized Intersections Operating under Disordered Traffic Conditions.	Transportation Research Record	2675	1356-1378	2021	1.7
Ritvik Chauhan, Pallav Kumar, Shriniwas Arkatkar, Ashish Dhamaniya, & Prasanta K. Sahu	Examining Deterministic and Probabilistic Capacity Estimation methods under Mixed Traffic using Empirical Data.	Case Studies on Transport Policy	9 (4)	1888-1899	2021	2.5
Hareshkumar D. Golakiya, Ritvik Chauhan, & Ashish Dhamaniya	Evaluating safe distance for pedestrians on urban midblock sections using trajectory plots.	European Transport - Trasporti Europei	75	1–17	2020	0.28
Ritvik Chauhan, Ashish Dhamaniya, Shriniwas Arkatkar, Sahu, P. K., & Vikram, D	Effect of Side Friction Parameter on Urban Road Traffic: Under Mixed Traffic Scenario.	Journal of the Eastern Asia Society for Transportation Studies	13	314–330	2019	-

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

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)		Traffic Flow Theory	IIT-Delhi	2022
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)	782-789	Transportation Engineering	Aveiro Portugal	2021
Ritvik Chauhan, Ashish Dhamaniya, Shriniwas Arkatkar	Control Delay Estimation at Signalized Intersections using Trajectory data	5th International Conference of Transportation Research Group of India	543-558	Transportation Engineering	Bhopal	2019
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)	1263–1277	Transportation Engineering	IIT-Bombay	2019

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
-	-	-	-	-