

## Curriculum Vitae (CV)



1. Name : **Dr. Errampalli Madhu**
2. Date of Birth : 17.07.1974
3. Designation : Senior Principal Scientist
4. Address

Senior Principal Scientist, Transportation Planning and Environment Division  
CSIR-Central Road Research Institute (C.R.R.I.), Mathura Road  
New Delhi - 110025, INDIA 110025

Tel: +91-11-26310339, 26312268 (Off)+91-99580 80643 (Mobile)

E-mail: errampalli.madhu@gmail.com, madhu.crrri@nic.in

5. Areas of Interest: **Transportation Planning, Traffic Engineering, Road Safety**
6. Educational Qualification

Degree	Subject	University/ Institution	Division	Year of Passing
PhD (Doctor of Philosophy)	Transportation Engineering	Graduate school of Engineering, Gifu University, Gifu, JAPAN*	-NA-	2008
M.Tech (Master of Technology)	Transportation Engineering	IIT, Chennai, India*	-NA-	1997
B.Tech (Bachelor of Technology)	Civil Engineering	Jawaharlal Nehru Technological University, Hyderabad, India	First Class with Distinction	1995

\* Institute will not award any grade/ rank/ division

7. Professional Experience - in reverse chronological order

From	To	Name of the Employer	Position Held
Jul, 2014	Till Date	C.R.R.I., New Delhi	Senior Principal Scientist/ Scientist F
Jul, 2009	Jul, 2014	C.R.R.I., New Delhi	Principal Scientist/ Scientist E-II
Jul, 2006	Jul, 2009	C.R.R.I., New Delhi	Senior Scientist/ Scientist E-I
Apr, 2004	Mar, 2008	Gifu University, Gifu, Japan	Research Student
Jul, 2002	Jul, 2006	C.R.R.I., New Delhi	Scientist/ Scientist C
Jul, 1999	Jul, 2002	C.R.R.I., New Delhi	Junior Scientist/ Scientist B
Oct, 1997	Jul, 1999	C.R.R.I., New Delhi	Fellow Scientist

8. Membership to Professional Bodies

- (i) Life Member of Institute of Urban Transport (India)
- (ii) Life Member of Geotechnical Society of India
- (iii) Life Member of Indian Roads Congress (IRC)

## 9. Achievements

### a. Honours and Awards (including Fellowships)

- (i) Received **Pt. Jawaharlal Nehru Birth Centenary Award 2017** from Indian Roads Congress (IRC) on 23<sup>rd</sup> November 2018
- (ii) Received Construction Industry Development Council (CIDC) **Vishwakarma Award 2016** on 7<sup>th</sup> March 2016 for category of Scientist
- (iii) Received **SKOCH Order of Merit Award** for SUSTRANS Project on 10<sup>th</sup> Dec 2015 being a Champion of the Project
- (iv) Received **Young Scientist Award** for the year 2011-12 from CSIR-CRRI for his outstanding performance
- (v) Received **Bronze Medal Award** from Indian Roads Congress (IRC) in 2011 for his publication in Journal of IRC for the year 2010
- (vi) Received **Best Article Award** by ASRTU in 2009 for his publication in Indian Journal of Traffic Management
- (vii) Received **Session Best Presentation Award** in SCIS & ISIS 2006, University of Tokyo, Japan
- (viii) Received **Bronze Medal Award** from Indian Roads Congress (IRC) in 2005 for his publication in Journal of IRC for the year 2004
- (ix) Recipient of **Japanese Government Scholarship (Monbugakusho)** for 2004 - 2008 and completed PhD during this period at Gifu University, Japan
- (x) Got **Three successive Merit Promotions** from Junior Scientist to Scientist in 3 years, from Scientist to Senior Scientist in 4 years and from Senior Scientist to Principal Scientist in 3 years
- (xi) Received **Road Safety Audit Certification** from International Road Federation (IRF)
- (xii) Received **Fellowship of CSIR-CRRI in 2013 to visit Netherlands** to conduct joint research project on Urban Transportation Strategies which finally led to receive a research project from The World Bank Group in association with TNO and TU-Delft, Netherlands in which CSIR-CRRI is leading institute for the first time and Candidate is Project Leader
- (xiii) Received **Fellowship of CSIR-CRRI in 2011 to visit Brussels, Belgium** to make presentation in "EUTRAIN (European Transport Research Area International cooperation activities) Workshop" on 17th Oct, 2011 which acted instrumental in bringing a research project to CSIR-CRRI from FEHRL (Federation of European Highways Research Laboratories), Brussels
- (xiv) Received **Japanese Government Scholarship (Mombukagakusho) 2004-2008** through Ministry of Human Resource and Development (MoHRD), Govt. of India for research studies from April 2004 - March, 2008 leading to complete PhD
- (xv) Received **Young Scientist Fellowship of CSIR and CRRI in 2009 to visit Hong Kong** to make presentation in 15th HKSTS (Hong Kong Society for Transportation Studies) International Conference held on 9th Dec, 2009 on Speed-Flow Equations of Multi-Lane Highways of India
- (xvi) Received **Gifu University Fellowship 2007 to visit USA** for presenting the research findings on Fuzzy Logic based Microscopic Traffic Simulation in 11th World Conference of Transport Research (WCTR) held at University of California, Berkeley, USA from July 23rd~28th, 2007
- (xvii) Received **Gifu University Fellowship 2005 to visit Bangkok, Thailand** for presenting the research findings on Microscopic Traffic Simulation considering Public Transport

Policy in 6th EASTS International Conference held at Bangkok, Thailand from September 23rd~28th, 2005

(xviii) Recipient of **GATE (Graduate Aptitude Test in Engineering) Scholarship** during 1995 to 1997 for pursuing M. Tech Course at IIT Madras

*b. Research Projects*

**Total Technical Reports: 35 (Last 5 Years: 17)**

S. No	Role in the Report	Total	Total (Last 5 Years)
1	Project Leader (PL)/ Principal Investigator (PI)	9	6
2	Co-PL/ One of PIs/ Task Leader/ Package Leader	7	3
3	Road Safety Auditor	3	1
4	Member	16	7
	Total	35	17

1. Megacity Logistics - Metrics, Tools and Measurements for Sustainability (MEGALOG), 2018. Final Report Submitted to The World Bank Group, Washington, D. C., USA, CSIR-Central Road Research Institute (CRRI), New Delhi, TU-Delft Netherlands and TNO, Netherlands, May 2018 - **As Principle Investigator**
2. Development and Application of Technologies for Sustainable Transportation (SUSTRANS), 2017. Final Report Submitted to CSIR under 12<sup>th</sup> Five Year Plan Project, CSIR -Central Road Research Institute (CRRI), New Delhi, CSIR-NAL Bangalore, CSIR-CSIO Chandigarh and CSIR-CLRI, Chennai, March 2017 - **As Champion (Principle Investigator)**
3. Development of Indian Highway Capacity Manual (Indo-HCM), 2017. Final Report Submitted to CSIR under 12<sup>th</sup> Five Year Plan Project, CSIR -Central Road Research Institute (CRRI), New Delhi, March 2017 - **As Team Member**
4. Evaluation of Economic Loss due to Idling at Signalised Intersections and Mitigation Measures (ELSIM), 2017. Final Report Submitted to CSIR under 12<sup>th</sup> Five Year Plan Project, CSIR - Central Road Research Institute (CRRI), New Delhi, March 2017 - **As Team Member**
5. Site Impact Assessment due to proposed DMRC Office Complex at Jantar Mantar Area, 2017. Final Report Submitted to DMRC, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, June 2017 - **As Team Member**
6. Study on Alignment Road from Sasoma to Saser Brangsa, 2017. Final Report Submitted to BRO, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, March 2017 - **As Team Member**
7. Assessment of Traffic Characteristics and Impact of Trilokpuri and Mayur Vihar Pocket-I Metro Stations of Line 7 of Delhi Metro on Vasundara Road, 2018. Final Report Submitted to DMRC, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, August 2018 - **As Team Member**
8. Road Safety Assessment and Improvement Plan for Dwarka Flyover, 2017. Final Report Submitted to DDA, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, January 2017 - **As Project Leader**
9. Road Safety Assessment on 2500 km of SHs & MDRs of Odisha State, 2017. Final Report Submitted to OWD, Bhubaneswar, CSIR -Central Road Research Institute (CRRI), New Delhi, June 2017 - **As Road Safety Auditor**
10. Traffic Circulation and Corridor Improvement Study of Savitri Cinema Road from Savitri Cinema to Guru Ravidas Marg, 2015. Final Report Submitted to PWD, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, December 2015 - **As Project Leader**

11. Road Safety Audit of Sarita Vihar Flyover with Underpass (RUB), Cloverleaves, Approach Roads, Slip Roads and Cycle Tracks, 2015. Final Report Submitted to DDA, New Delhi, CSIR - Central Road Research Institute (CRRI), New Delhi, July 2015 - **As Project Leader**
12. Road Safety Audit during Development and Construction Phase of 4/6 Lanning of National Highways under PPP on DBFO Basis, 2015. Final Report Submitted to NHAI, Moradabad, Vijayawada, CSIR -Central Road Research Institute (CRRI), New Delhi, July 2015 - **As Package Leader**
13. Traffic Studies for Feasibility of Mineral Transportation in Joda Barbil, Odisha, 2015. Final Report Submitted to M/S Thriveni Consultancy Services, Odisha, CSIR -Central Road Research Institute (CRRI), New Delhi, March 2015 - **As Team Member**
14. Fuel Efficiency Standards of Heavy Duty Vehicles in India, 2015. Final Report Submitted to Shakti Sustainable Energy Foundation, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, July 2015 - **As Co-Project Leader**
15. Development of Road User Cost Models for High Speed Corridors, 2014. Final Report Submitted to CSIR under 11<sup>th</sup> Five Year Plan Supra Institutional Project (SIP), CSIR -Central Road Research Institute (CRRI), New Delhi, March 2014 - **As Task Leader**
16. Geometric Design of Intersections, Traffic Circulation Plan and Rigid Pavement Design at DSK Township Pune, 2013. Final Report Submitted to DSK Pvt. Ltd., Pune, CSIR -Central Road Research Institute (CRRI), New Delhi, July 2015 - **As Project Leader**
17. Traffic and Transportation Plan for Port Blair City, 2013. Final Report Submitted to A&N Administration, Port Blair, CSIR -Central Road Research Institute (CRRI), New Delhi, March 2013 - **As Project Leader**
18. EUTRAIN European Transport Research Area International Cooperation Activities, 2012. Final Report Submitted to FEHRL, Belgium, CSIR -Central Road Research Institute (CRRI), New Delhi, March 2012 - **As Project Leader**
19. Evaluating Bus Rapid Transit (BRT) Corridor Performance from Ambedkar Nagar to Mool Chand, 2012. Final Report Submitted to Transport Department, Government of National Capital Territory of Delhi (GNCTD), New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, October 2012 - **As one of Principal Investigators**
20. Road Safety Audit of Dasve Road Network in Lavasa, 2012. Final Report Submitted to LAVASA Pvt. Ltd., Pune, CSIR -Central Road Research Institute (CRRI), New Delhi, 2012 - **As Road Safety Auditor**
21. Feasibility Study on requirement of Pedestrian Underpass/Vehicular Underpasses between Palanpur-Deesa-Radhanpur Section of NH-14 & NH-15, 2012. Final Report Submitted to NHAI, Palanpur, CSIR -Central Road Research Institute (CRRI), New Delhi, 2012 - **As Road Safety Auditor**
22. Modelling Time Mean Speed and Space Mean Speed for Heterogeneous Traffic Conditions, 2010. Final Report Submitted to CSIR-CRRI, New Delhi under In-House Project, CSIR -Central Road Research Institute (CRRI), New Delhi, March 2010 - **As Member**
23. Traffic Study and Economic Analysis of Delhi Metro Phase III, 2010. Final Report Submitted to Delhi Metro Rail Corporation (DMRC), New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, March 2010 - **As Member**
24. Urban Road Traffic and Air Pollution in Delhi, 2009. Final Report Submitted to Society for Indian Automobile Manufactures (SIAM), CSIR -Central Road Research Institute (CRRI), New Delhi, July 2009 - **As one of the Principle Investigators**
25. Traffic Study and Economic Analysis of Ahmedabad Metro, 2009. Final Report Submitted to Delhi Metro Rail Corporation (DMRC), New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, July 2009 - **As Member**

26. Road Safety Audit of Mumbra Bypass on NH-4, 2008. Final Report Submitted to PWD, Maharashtra, CSIR -Central Road Research Institute (CRRI), New Delhi, December 2008 - **As Member**
27. Fuzzy Logic based Microscopic Traffic Simulation Model to Evaluate Transport Policies, 2008. Research Study sponsored by Japanese Government Scholarship, Mar 2008 - **As Research Student**
28. Neuro-Computing in Mode Choice, 2004. Final Report Submitted to CSIR-CRRI, New Delhi under In-House Project, CSIR -Central Road Research Institute (CRRI), New Delhi, March 2004 - **As Project Leader**
29. Road Safety audit of NH-5 near Bhubaneswar and Visakhapatnam, 2004. Final Report Submitted to NHAI, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, March 2004 - **As Package Leader**
30. Proof Checking of Road Signage and Markings at Dhuala Kuan Flyover, 2004. Final Report Submitted to PWD, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, 2003 - **As Member**
31. Design of Road Signages for Flyovers in Delhi, 2003. Final Report Submitted to Transport Department, Government of National Capital Territory of Delhi (GNCTD), New Delhi, CSIR - Central Road Research Institute (CRRI), New Delhi, 2003 - **As Member**
32. Updation of Road User Cost Study (URUCS), 2001. Final Report Submitted to Ministry of Road Transport and Highways (MoRTH), Government of India, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, 2001 - **As one of the Principle Investigators**
33. Urban Road Traffic and Air Pollution (URTRAP), 2002. Final Report Submitted to Ministry of Petroleum and Natural Gas (MoPNG), Government of India, New Delhi, CSIR -Central Road Research Institute (CRRI), New Delhi, October 2002 - **As one of the Principle Investigators**
34. Road Safety Audit of Noida Toll Bridge, 2001. Final Report Submitted to Noida Toll Bridge Company (NTBC) Pvt. Ltd., CSIR -Central Road Research Institute (CRRI), New Delhi, 2001 - **As Member**
35. Mode Choice Modelling for Second Order Metropolitan Cities of India, 2004. Report Submitted to DST, CSIR -Central Road Research Institute (CRRI), New Delhi, 2004 - **As Member**

c. *Research Publications:*

**Total Publications: 128 (Last 5 Years: 60)**

S. No	Type of Publications	Total	Total (Last 5 Years)
1	Books	1	-
2	Chapters/ Articles in Books	3	3
3	SCI Journals	11*	6
4	Referred International/ National Journals	27	15
5	International Conferences	63	23
6	National Conferences	23	13
	Total	128**	60

\*Total Impact Factor = 6.88

\*\*Google Scholar Indices (Total Citations=243; h-index=9; i10-index=9) as on 30.11.2018

a. **Books**

1. **Errampalli, M.**, Okushima, M. and Akiyama, T. *Fuzzy Logic Based Microscopic Traffic Simulation Model: Simulation of Vehicles and Commuters on Urban Road Network to Evaluate*

*Transport Policies*. VDM Verlag Dr. Müller Publishers, Germany, 2011, ISBN: 978-3-639-35502-4.

**b. Chapters/ Articles in Books**

2. Chandra, S. and **Errampalli, M.** 2017. Smart Technology Solutions to Improve Transportation Systems, *Governance Today*, **3 (10)**, July 2017, pp. 8-11, ISSN 2455-0426.
3. Kumar, R., **Errampalli, M.**, Maan, A. and Sinha, S. 2015. “Determination of combined exposure factor of different transport related environmental pollutants by assessing Air quality and noise levels: a case study of Delhi, *OUTLOOK 2015 - Green Behaviour: Re-thinking Policy for Sustainability*, World Sustainable Development Outlook Book Series, Greenleaf Publishing (Routledge, Taylor & Francis Group), pp. 139-149, ISSN 1748-8133.
4. Dahiya, A., Kumar, R., **Errampalli, M.** and Sinha, S. 2015. “Comprehensive assessment of sustainability indicators for public transportation system including pedestrians and feeder services: A case study of Delhi”, *OUTLOOK 2015 - Green Behaviour: Re-thinking Policy for Sustainability*, World Sustainable Development Outlook Book Series, Greenleaf Publishing (Routledge, Taylor & Francis Group), pp. 151-162, ISSN 1748-8133.

**c. List of Publications in SCI Journals (Total Impact Factor = 6.88)**

5. **Errampalli, M.**, Patil, K. S. and Prasad, C. S. R. K. 2018. Evaluation of integration between public transportation modes by developing sustainability index in India, *Journal of Case Studies of Transport Policy*, Elsevier Publishers, Sep 2018. <https://doi.org/10.1016/j.cstp.2018.09.005> (Impact Factor: 0.557)
6. Chalumuri, R. S., Nath, R. R. and **Errampalli, M.** 2018. Development and evaluation of an integrated transportation system: a case study of Delhi, *Journal of Transport, Institution of Civil Engineers (ICE)*, **171 (2)**, pp. 75-84. <https://doi.org/10.1680/jtran.16.00003> (Impact Factor: 0.402)
7. Pulugurta, S., **Errampalli, M.**, and Kayitha, R. 2015. Fuzzy Logic–Based Travel Demand Model to Simulate Public Transport Policies. *Journal of Urban Planning and Development*, ASCE, **141(4)**, 04014044, Dec 2015, pp 1-11. (Impact Factor: 0.95)
8. Ravi Sekhar, Ch., **Errampalli, M.**, Kanagadurai, B. and Gangopadhyay, S. 2013. Analysis of travel time reliability of an urban corridor using micro simulation techniques, *Journal of Current Science*, **105 (3)**, pp. 319-329. (Impact Factor: 0.935)
9. **Errampalli, M.**, Okushima, M. and Akiyama, T. 2013. Development of microscopic traffic simulation model with fuzzy logic technique. *Journal of Simulation*, SAGE Publications, **89 (1)**, pp. 87-101. (Impact Factor: 0.818)
10. Velmurugan, S., Padma, S., **Errampalli, M.**, Shukla, A. and Gangopadhyay, S. 2013. A study of factors influencing the severity of road crashes involving drunk drivers and non drunk drivers, *Journal of Research in Transportation Economics*, Elsevier Publishers, **38 (1)**, pp. 78-83. (Impact Factor: 0.59)
11. Velmurugan, S., **Errampalli, M.**, Jakkula, N. and Kayitha, R. 2012. Development of Congestion Cost Equations for Multilane Highways in India, *Transportation Research Record 2317*, Transportation Research Board (TRB), Washington, D. C., pp. 121-130. (Impact Factor: 0.471)
12. **Errampalli, M.**, Velmurugan, S., Ravinder, K. and Nataraju, J. 2011. Development of free speed equations for assessment of road user cost on high speed multi-lane carriageways of India on plain terrain. *Journal of Current Science*, **100 (9)**, pp. 1362-1372. (Impact Factor: 0.935)
13. Padma, S., **Errampalli, M.**, Velmurugan, S., Shukla, A. and Gangopadhyay, S. 2011. Modeling time mean speed and space mean speed for heterogeneous traffic conditions, *Journal of Transportation Planning and Technology*, **34 (8)**, pp. 823-838. (Impact Factor: 0.427)

14. **Errampalli, M.**, Okushima, M. and Akiyama, T. 2008. Fuzzy logic based lane change model for microscopic traffic flow simulation. *Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII)*, **12 (2)**, 172-181. (Impact Factor: 0.21)
15. **Errampalli, M.**, Reddy, T. S. and Velmurugan, S. 2004. Updation of free speed models through mechanistic principles for Indian conditions. *Journal of Advanced Transportation*, **38 (2)**, pp. 133-146. (Impact Factor: 0.585)

**d. List of Publications in Referred International/ National Journals**

16. Rao, A. M., **Errampalli, M.** and Gupta, K. 2017. Impact of Odd Even Scheme on Transportation Systems in Delhi, *Journal of Transportation in Developing Economies*, Springer, **3 (4)**, pp. 1-12. (doi:10.1007/s40890-017-0035-z)
17. Kumar, R., Parida, P., **Errampalli, M.** and Bharat Kumar A. V. A. 2017. Does Connectivity Index of Transport Network have Impact on Delay for Driver, *Transportation Research Procedia*, Elsevier Publishers, **25**, pp. 4988-5002. (<https://doi.org/10.1016/j.trpro.2017.05.377>)
18. **Errampalli, M.** and Kayitha, R. 2016. Traffic Management Plan for Port Blair City, India, *Transportation Research Procedia*, Elsevier Publishers, **17**, pp. 548-557. (<https://doi.org/10.1016/j.trpro.2016.11.109>)
19. Arun, A., **Errampalli, M.** and Velmurugan, S. 2016. Selection of a suitable service measure and determination of LOS criteria for Indian multilane interurban highways: A methodological review. *Journal of Transportation in Developing Economies*, Springer, **2 (2)**, pp. 1-12. (doi:10.1007/s40890-016-0021-x)
20. Ravi Sekhar, Ch., Minal. and **Errampalli, M.** 2016. Multimodal choice modeling using random forest decision trees. *International Journal of Traffic and Transportation Engineering (IJTTE)*, **6 (3)**, pp. 356-367 (DOI: 10.7708/ijtte.2016.6(3).10).
21. **Errampalli, M.**, Velmurugan, S. and Deepa, C. 2015. Effect of congestion on fuel cost and time cost on multi-lane highways in India. *International Journal of Traffic and Transportation Engineering (IJTTE)*. **5 (4)**, pp. 458-472. (DOI: 10.7708/ijtte.2015.5(4).10)
22. Ravi Sekhar, Ch., **Errampalli, M.**, Sarada, P., Srivastav, S. and Irshad, M. 2015. Performance Evaluation of Urban Road Network in Delhi Considering Travel Speed. *Journal of Urban Transport*, Institute for Urban Transport (India), **14 (1)**, pp. 27-38.
23. Kumar, R., **Errampalli, M.**, Maan, A., Sinha S. and Akhtar, N. 2015. "Estimation of combined exposure factor due to impact of different transport related environmental pollutants air quality and noise level in Delhi city", *World Journal of Science, Technology and Sustainable Development*, Emerald Publishing, **12 (4)**, pp. 269-280.
24. Kumar, R., **Errampalli, M.**, Dahiya, A. and Sinha, S. 2015. "Analytical Hierarchy Process for Assessing Sustainability Indicators of Public Transportation Systems, Pedestrians and Feeder Services in Developing" *World Journal of Science, Technology and Sustainable Development*, Emerald Publishing, **12 (4)**, pp. 281-293.
25. Sarkar, P. K., **Errampalli, M.** and Kumar, M., 2014. Evaluation of Public Transport Policies by Developing Mode Choice Model using Fuzzy Logic Technique. *Highway Research Journal*, Indian Roads Congress (IRC), **7 (2)**, July - December 2014, pp. 29-37.
26. Gupta, N. J., Chand, S. and **Errampalli, M.** 2014. Review of Feeder system for public transport towards Sustainability. *Indian Journal of Transport Management (IJTM)*, **38 (2)**, pp. 113-123.
27. Arun, A., Velmurugan, S. and **Errampalli, M.** 2013. Methodological Framework Towards Roadway Capacity Estimation for Indian Multi-Lane Highways. *Procedia - Social and Behavioral Sciences*, Elsevier Publishers, **104**, pp. 477-486. (<https://doi.org/10.1016/j.sbspro.2013.11.141>)

28. Sarada, P., Arun, A. and **Errampalli, M.** 2013. Use of Artificial Intelligence for Mode Choice Analysis and Comparison with Traditional Multinomial Logit Model. *Procedia - Social and Behavioral Sciences*, Elsevier Publishers, Vol. 104 (2), pp. 583-592. (<https://doi.org/10.1016/j.sbspro.2013.11.152>)
29. Kumar, M., Sarkar, P. K. and **Errampalli, M.** 2013. Development of Fuzzy Logic based Mode Choice Model Considering Various Public Transport Policy Options. *International Journal of Traffic and Transportation Engineering (IJTTE)*, **3 (4)**, pp. 408-425. (DOI: 10.7708/ijtte.2013.3(4).05)
30. **Errampalli, M.** and Ravinder K. 2013. Evaluation of Traffic System Management Measures using Microscopic Multi Modal Simulation. *Journal of Urban Transport*, Institute for Urban Transport (India), **12 (1)**, pp. 17-27.
31. Okushima, M., **Errampalli, M.** and Akiyama, T. 2012. Microscopic Fuzzy Urban Traffic Simulation with Variable Demand. *Journal of Civil Engineering and Architecture*, **6 (5)**, 541-556. (DOI:10.17265/1934-7359/2012.05.003)
32. Padma, S., Velmurugan, S., **Errampalli, M.**, Sitaramanjaneyulu, K., Gangopadhyay, S. and Revathi, A. 2012. Modeling occurrence and severity of road crashes on selected multi-lane carriageways in India, *Highway Research Journal*, Indian Roads Congress, **5 (2)**, pp. 27-32.
33. **Errampalli, M.** and Velmurugan, S. 2011. Estimation of roadway capacity of eight-lane divided urban expressways under heterogeneous traffic through microscopic simulation models, *International Journal of Science and Technology Education Research*, **2 (9)**, pp.146–162.
34. **Errampalli, M.**, Ravinder, K. and Velmurugan, S. 2011. Evaluation of traffic and transportation characteristics of Delhi. *Journal of Urban Transport*, Institute for Urban Transport (India), **10 (1)**, pp. 29-45.
35. Ravi Sekhar, CH., Kanakadurai, B., **Errampalli, M.** and Gangopadhyay, S., 2011. Genetic algorithm based neural network model for mode choice analysis. *Journal of Urban Transport*, Institute for Urban Transport (India), **10 (1)**, pp. 64-74.
36. Padma, S., **Errampalli, M.**, Shah, P. M., Shukla, A. and Gangopadhyay, S., 2011. A study of road crashes along the high speed corridors of India. *Journal of Road Transport*, Institute of Road Transport (IRT), **3**, pp. 1-14.
37. Velmurugan, S., **Errampalli, M.**, Ravinder, K., Sitaramanjaneyulu, K. and Gangopadhyay, S. 2010. Critical evaluation of roadway capacity of multi-lane high speed corridors under heterogeneous traffic conditions through traditional and microscopic simulation models. *Journal of Indian Roads Congress*, **71 (3)**, 235-264.<sup>1</sup>
38. Okushima, M., **Errampalli, M.** and Akiyama, T. 2009. Fuzzy Logic Based Microscopic Traffic Simulation for Urban Transport Policy Evaluation. *Journal of Infrastructure Planning Review*, **26 (5)**, Japan Society of Civil Engineers (JSCE), pp. 923-932.
39. Velmurugan, S., **Errampalli, M.**, Ravinder, K. and Gangopadhyay, S. 2009. Updation of road user cost for economic evaluation of road projects. *Indian Journal of Traffic Management (IJTM)*, **33 (3)**, pp. 205-225.<sup>2</sup>
40. **Errampalli, M.**, Okushima, M. and Akiyama, T. 2006. Evaluation of bus priority system with microscopic simulation model. *Journal of Infrastructure Planning Review*, **23 (4)**, Japan Society of Civil Engineers (JSCE), pp. 945-953.
41. **Errampalli, M.**, Okushima, M. and Akiyama, T. 2005. Microscopic simulation model considering public transport policy. *Journal of Eastern Asia Society for Transportation Studies (EASTS)*, **6**, pp. 2718-2733.

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<sup>1</sup> Received Bronze Medal for Best Paper in the field of Transportation Engineering for the year 2011 by Indian Roads Congress (IRC)

<sup>2</sup> Received Best Research Article Award for the year 2009 by Association of State Road Transport Undertakings (ASRTU)



42. Reddy, T. S., Velmurugan, S., **Errampalli, M.** and Ramalingaiah, A. N. 2003. Updation of road user cost and revised software for evaluation of highway projects. *Journal of Indian Roads Congress*, **64 (2)**, pp. 207-267.<sup>3</sup>

**e. List of Publications in International Conferences**

43. Bhatia, U., Minal, Ravi Sekhar, CH. and **Errampalli, M.** 2018. Impact of Congestion Pricing on Mode Choice and Route Choice Behavior: Experimental Study of Delhi, India. *Proc. Transportation Research Board 97<sup>th</sup> Annual Meeting*, TRB, Washington DC, January 7-11, 2018.
44. Azad, F., Sarkar, P. K. and **Errampalli, M.** and Chakrabarty, N. 2017. A critical evaluation of freight movement in Delhi and NCR using SWOT analysis. *Proc. 4<sup>th</sup> International Conference of Transportation Research Group of India (CTRG)*, IIT Bombay, Mumbai, India, December 17-20, 2017.
45. Seetharaman, P., Jakkula, N., **Errampalli, M.** and Chandra, S. 2016. Computation of Line Choice Probability Assuming Countdown Information at Transit Stops - Case Study for a section of Delhi Bus Transit Network. *Proc. 12<sup>th</sup> International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, December 19-21, 2016.
46. Nath, R. R., Ravi Sekhar, CH. and **Errampalli, M.** 2016. Evaluation of policy measures in view of promoting sustainable transportation system. *Proc. 14<sup>th</sup> World Conference on Transport Research (WCTR)*, Shanghai, China, July 10-15, 2016.
47. Raval, N. K., Nataraju, J, **Errampalli, M.**, Prajapati, P. and Rao, A. M. 2016. Modelling of commuter satisfaction level for ITS based public transport system in Indian city, *Proc. 14<sup>th</sup> World Conference on Transport Research (WCTR)*, Shanghai, China, July 10-15, 2016.
48. **Errampalli, M.**, Patil, K. S. and Prasad, C. S. R. K. 2016. Evaluation of integration between public transportation modes by developing sustainability index in India, *Proc. 14<sup>th</sup> World Conference on Transport Research (WCTR)*, Shanghai, China, July 10-15, 2016.
49. Nath, R. R., Ravi Sekhar, CH. and **Errampalli, M.** 2015. Development of Four Stage Travel Demand Model and Identification of Feeder Route for the NCT of Delhi, *Proc. 11<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Cebu, Philippines, September 11-14, 2015.
50. Kumar, R., Bharat Kumar A. V. A., Parida, P., **Errampalli, M.**, and Wafaa, S. 2015. Network Connectivity Index and Delay Optimization. *Proc. 7<sup>th</sup> International Symposium on Travel Demand Management*, Tucson, Arizona, April 13-15, 2015.
51. Kaur, J., Gupta, N. J., Chand, S. and **Errampalli, M.** 2015. Feeder Transport System Facilities at Public Transport Terminals– A Case Study of Delhi, *Proc. 3<sup>rd</sup> International Conference of Transportation Research Group of India (CTRG)*, Kolkata, India, December 17-21, 2015.
52. Nath, R. R., Chalumuri, R. S. and **Errampalli, M.** 2015. Development of Trip Generation Models for the NCT of Delhi, *Proc. 3<sup>rd</sup> International Conference of Transportation Research Group of India (CTRG)*, Kolkata, India, December 17-21, 2015.
53. Kumar, R., **Errampalli, M.**, Bharat Kumar A.V.A. and Parida, P. 2015. Exploring Public Transport Connectivity Index and Delay in Delhi, *Proc. 3<sup>rd</sup> International Conference of Transportation Research Group of India (CTRG)*, Kolkata, India, December 17-21, 2015.
54. Kumar, R., **Errampalli, M.**, Mann, A. and Sinha, S. 2015. Determination of combined exposure factor of different transport related environmental pollutants by assessing air quality and noise levels: A case study of Delhi, *Proc. 13<sup>th</sup> International Conference of World Association for*

<sup>3</sup> Received Bronze Medal for Best Paper in the field of Transportation Engineering for the year 2003 by Indian Roads Congress (IRC)

- Sustainable Development (WASD) on Green Behavior: Re-Thinking Policy for Sustainability*, **16**, WASD Outlook 2015, Istanbul, Turkey, June 1-3, 2015.
55. **Errampalli, M.**, Kayitha, R. and Pulugurta, S. 2014. Traffic Management Plan for Port Blair City, India. *Proc. 11<sup>th</sup> International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, December 10-12, 2014.
  56. Pulugurta, S., **Errampalli, M.**, and Kayitha, R. 2014. Prediction of Future Trips using Fuzzy Logic Based Trip Generation Model. *Proc. 11<sup>th</sup> International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, December 10-12, 2014.
  57. Kayitha, R. and **Errampalli, M.** 2014. Vehicular Emissions Based on Vehicle Kilometres Travelled from Road Sector at National Level in India. *Proc. 11<sup>th</sup> International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, December 10-12, 2014.
  58. Ravi Sekhar, Ch., Minal and **Errampalli, M.** 2014. Mode Choice Analysis using Random Forrest Decision Trees. *Proc. 11<sup>th</sup> International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, December 10-12, 2014.
  59. Kayitha, R. and **Errampalli, M.** 2014. Vehicular Pollution Loads from Vehicular Traffic in India Based on Vehicle Kilometers Travelled for Sustainable Transportation. *Proc. International Conference on Sustainable Civil Infrastructure (ICSCI 2014)*, ASCE India Chapter, Hyderabad, India, October 17-18, 2014.
  60. Kayitha, R. and **Errampalli, M.** 2014. Congestion Management. *Proc. Sustainable Summit as part of India-California Air-Pollution Mitigation Program (ICAMP)*, TERI New Delhi, India, Feb 5, 2014.
  61. Kathuria, A., Sarkar, P. K. and **Errampalli, M.** 2013. Intercity Mode Choice Modeling using Soft Computing. *Proc. International Conference on Urban Mobility India (UMI 2013)*, New Delhi, India, December, 3-6, 2013, CD-ROM.
  62. **Errampalli, M.**, Kayitha, R. and Jakkula, N. 2013. Evaluation of Traffic System Management Measures using Microscopic Multi Modal Simulation. *Proc. 10<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Taipei, Taiwan, September 9-12, 2013, CD-ROM.
  63. Arun, A., **Errampalli, M.** and Velmurugan, S. 2013. Road Crash Frequency Prediction Models for Indian National Highways. *Proc. 10<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Taipei, Taiwan, September 9-12, 2013, CD-ROM.
  64. Jakkula, N., Velmurugan, S., Kayitha, R., **Errampalli, M.** and Gangopadhyay, S. 2013. Evaluation of Bus Rapid Transit System Corridor Performance in India. *Proc. 10<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Taipei, Taiwan, September 9-12, 2013, CD-ROM.
  65. **Errampalli, M.** and Ravinder, K. 2013. Road Safety Audit of Mumbra Bypass on NH-4. *Proc. Intelligent Society in Pursuit of Advanced Civil Engineering International Conference (iSPACE)*, ITM University, Gurgaon, March 2013, CD-ROM.
  66. **Errampalli, M.**, Velmurugan, S. and Sitaramanjaneyulu, K. 2012. Estimation of Roadway Capacity of Eight-Lane Divided Urban Expressways under Heterogeneous Traffic through Microscopic Simulation Models. *Proc. 10<sup>th</sup> International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, December 12-14, 2012.

67. Ravinder, K. and **Errampalli, M.** 2012. Importance of crossing facilities while widening the National Highways – A Case Study of Palanpur-Dessa Sections of NH-14. *Proc. 10<sup>th</sup> International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, December 12-14, 2012.
68. Patel, H., Velmurugan, S. and **Errampalli, M.**, 2012. Evaluation of roadway capacity of inter-city expressways on plain and hilly terrain using microscopic traffic simulation. *Proc. of International Conference on Recent Advances in Transportation Engineering (RATE-2012)*, SVNIT Surat, India, Jun 2012, CD-ROM.
69. Velmurugan, S., **Errampalli, M.**, Nataraju, J. and Ravinder, K., 2012. Development of congestion cost equations for high speed corridors in India. *Proc. 81<sup>st</sup> Annual Session of Transportation Research Board (TRB)*, Washington DC., USA, January 2012.
70. **Errampalli, M.**, Velmurugan, S. and Deepa, C. 2011. Effect of congestion on fuel cost and time cost on multi-lane highways in India. *Proc. 1<sup>st</sup> International Conference of Transportation Research Group of India (CTRG)*, Bangalore, India, Dec 2011, CD-ROM.
71. Okushima, M., Akiyama, T. and **Errampalli, M.** 2011. Impact analysis of bus fare system with microscopic fuzzy traffic simulation. *Proc. 1<sup>st</sup> International Conference of Transportation Research Group of India (CTRG)*, Bangalore, India, Dec 2011, CD-ROM.
72. Akiyama, T., Okushima, M. and **Errampalli, M.** 2011. Car Following Model with Fuzzy Reasoning Approach for Microscopic Network Traffic Simulation. *Proc. 13<sup>th</sup> International Fuzzy Systems Association World Congress*, Surabaya, Indonesia, June 2011, pp. 1-7.
73. **Errampalli, M.**, Velmurugan, S., Nataraju, J. and Sitaramanjaneyulu, K., 2011. Development of vehicle operating cost equations for high speed corridors of India. *Proc. 9<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Jeju, South Korea, June 20-24, 2011, CD-ROM.
74. **Errampalli, M.**, Okushima, M. and Akiyama, T. 2011. Fuzzy logic microscopic simulation with commuter mode choice model for evaluation of public transport policy. *Proc. 9<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Jeju, South Korea, June 20-24, 2011, CD-ROM.
75. Kayitha, R., **Errampalli, M.**, Velmurugan, S. and Gangopadhyay, S. 2010. Impact of vehicular emission norms on vehicular pollution loads in Delhi. *Proc. 24<sup>th</sup> ARRB Conference*, Melbourne, Australia, December 10 - 12, 2010, CD-ROM.
76. **Errampalli, M.** and Velmurugan, S., 2010. Capacity estimation of eight lane divided urban expressways under heterogeneous traffic through microscopic simulation models. *Proc. 9<sup>th</sup> International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, December 15-17, 2010.
77. Ravinder, K., Velmurugan, S. and **Errampalli, M.**, 2010. Evaluation of infrared based Automatic Vehicle Counters cum Classifiers (AVCC) under Indian traffic conditions. *Proc. International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)*, IIT Bombay, Mumbai, December 15-17, 2010.
78. Ravinder, K., **Errampalli, M.** and Gangopadhyay, S., 2010. Vehicular pollution loads in Delhi. *Proc. International Conference on Infrastructure, Sustainable Transportation and Urban Planning, CISTUP@CiSTUP 2010*, IISc, Bangalore, October 18 - 20, 2010.
79. Padma, S., Velmurugan, S., **Errampalli, M.** and Shukla, A. 2010. Modeling accident severity using multinomial logit model. *Proc. International Conference on Infrastructure, Sustainable Transportation and Urban Planning CISTUP@CiSTUP 2010*, IISc, Bangalore, October 18 - 20, 2010.
80. Jakkula, N., Kayitha, R., **Errampalli, M.** and Velmurugan, S., 2010. Speed and delays of the arterial road network of Delhi. *Proc. International Conference on Infrastructure, Sustainable*

- Transportation and Urban Planning CISTUP@CiSTUP 2010*, IISc, Bangalore, October 18 - 20, 2010.
81. Dhaval, T. B., **Errampalli, M.** and Velmurugan, S., 2010. *Impact of lane change behaviour on roadway capacity of multi-lane highways using microscopic simulation. Proc. International Conference on Developments and Trends in Transportation (DRT 2010)*, NIT Rourkela, October 8 - 10, 2010.
  82. Ravinder, K., **Errampalli, M.** and Gangopadhyay, S., 2010. Evaluation of tollway operations using VISSIM. *Proc. 12<sup>th</sup> World Conference on Transport Research (WCTR)*, Lisbon, Portugal, July 11 - 15, 2010, CD-ROM.
  83. Okushima, M., Akiyama, T., and **Errampalli, M.** 2010. Microscopic fuzzy urban traffic simulation with variable demand. *Proc. 12<sup>th</sup> World Conference on Transport Research (WCTR)*, Lisbon, Portugal, July 11 - 15, 2010, CD-ROM.
  84. **Errampalli, M.**, Ravinder, K. and Velmurugan, S., 2010. Traffic characteristics of Delhi. *Proc. International Conference on Transportation Science and Technology Congress TRANSTEC 2010*, New Delhi, April 4 - 7, 2010.
  85. Ravinder, K., **Errampalli, M.** and Gangopadhyay, S., 2010. Vehicular emission norms Vs vehicular pollution in Delhi. *Proc. International Conference on Transportation Science and Technology Congress TRANSTEC 2010*, New Delhi, April 4 - 7, 2010.
  86. **Errampalli, M.**, Velmurugan, S., Ravinder, K. and Gangopadhyay, S., 2009. Speed - flow characteristics of high speed corridors in India. *Proc. 14<sup>th</sup> International Conference of Hong Kong Society for Transportation Studies (HKSTS)*, Hong Kong, December 10 - 12, 2009.
  87. Kayitha, R., Velmurugan, S., **Errampalli, M.** and Gangopadhyay, S., 2009. Development of speed flow curves for high speed multilane corridors in India. *Proc. 8<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Surabaya, Indonesia, November 16 - 19, 2009.
  88. Ravi Sekhar, CH., **Errampalli, M.**, Kanakadurai, B. and Gangopadhyay, S., 2009. Nural network analysis for mode choice for second order metropolitan cities in India. *Proc. 8<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Surabaya, Indonesia, November 16 - 19, 2009.
  89. Padma, S., **Errampalli, M.**, Mukhopadhyay, D. and Gangopadhyay, S., 2009. Comparative evaluation of mode choice modelling by logit and fuzzy logic. *Proc. 8<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, Surabaya, Indonesia, November 16 - 19, 2009.
  90. **Errampalli, M.**, Okushima, M. and Akiyama, T., 2009. Fuzzy logic based mode choice model for microscopic traffic simulation. *Proc. International Conference on Pavement Engineering (ICPE-09)*, Bhubaneswar, India, Feb 2009, pp. 197-211.
  91. Okushima, M., **Errampalli, M.** and Akiyama, T., 2008. Fuzzy logic microscopic traffic simulation to analyse roadside parking problem. *Proc. International Conference on Soft Computing and Intelligent Systems & International Symposium on advanced Intelligent Systems (SCIS & ISIS)*, No. FR-F2-4, Tokyo, Japan, Sep 2008, CD-ROM.
  92. Gangopadhyay, S., Velmurugan, S., Kayitha, R. and **Errampalli, M.**, 2008. Urban road traffic and vehicular pollution in major cities in India. *Proc. 23<sup>rd</sup> ARRB Conference - Research Partnering with Practitioners*, Adelaide, Australia, Aug 2008, CD-ROM.
  93. Ravinder, K., **Errampalli, M.**, and Gangopadhyay, S., 2008. Role of toll collection methods in reducing the congestion on urban/ intercity corridors. *Proc. International Conference on Best Practices to Relieve Congestion on Mixed-Traffic Urban Streets in Developing Countries (BPRCM)*, IIT Chennai, India, Sep 2008, 63-72.

94. **Errampalli, M.**, Okushima, M. and Akiyama, T., 2007. Fuzzy logic based car-following model for microscopic traffic simulation on urban road network. *Proc. 6<sup>th</sup> Intelligent Transport System (ITS) Symposium*, Kobe University, Kobe, Japan, November 2007, pp. 107-112.
95. **Errampalli, M.**, Okushima, M. and Akiyama, T., 2007. Car-following model with fuzzy reasoning approach. *Proc. 17<sup>th</sup> Intelligent System Symposium*, Aichi Institute of Technology, Nagoya, Japan, July 2007, pp. 83-88.
96. **Errampalli, M.**, Okushima, M. and Akiyama, T., 2007. Combined fuzzy logic based mode choice and microscopic simulation model for transport policy evaluation. *Proc. 11<sup>th</sup> World Conference on Transport Research (WCTR)*, UC Berkeley, USA, June 2007, CD-ROM.
97. **Errampalli, M.**, Okushima, M. and Akiyama, T., 2006. Lane change modelling with fuzzy logic in microscopic traffic simulation. *Proc. International Conference on Soft Computing and Intelligent Systems & International Symposium on advanced Intelligent Systems (SCIS & ISIS)*, No. FR-GR-2, Tokyo University, Tokyo, Japan, September 2006, pp. 919-924. <sup>4</sup>
98. Okushima, M., Akiyama, T. and **Errampalli, M.** 2006. Fuzzy travel behaviour model with route choice description. *Proc. International Conference on Soft Computing and Intelligent Systems & International Symposium on advanced Intelligent Systems (SCIS & ISIS)*, No. FR-GR-3, Tokyo University, Tokyo, Japan, September 2006, 925-930.
99. **Errampalli, M.**, Okushima, M. and Akiyama, T., 2005. Evaluation of bus lane policy by microscopic simulation model. *Proc. 4<sup>th</sup> Intelligent Transport System (ITS) Symposium*, Tokyo University, Tokyo, Japan, December 2005, pp. 187-192.
100. Rao, B. S., **Errampalli, M.**, Jalihal, S. and Reddy, T. S., 2005. Accident study on National Highway - 5 between Anakapalli to Visakhapatnam. *Proc. 6<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, **5**, Bangkok, Thailand, September 2005, pp. 1973-1988.
101. Velmurugan, S., Reddy, T. S., **Errampalli, M.** and Prasad Rao, I., 2005. Traffic operating characteristics and its impacts on air pollution in an urban area - A case study of Chennai, India. *Proc. 6<sup>th</sup> International Conference of Eastern Asia Society for Transportation Studies (EASTS)*, **5**, Bangkok, Thailand, September 2005, pp. 1799-1814.
102. Velmurugan, S., **Errampalli, M.** and Reddy, T. S., 2004. Evaluation of speed - flow characteristics on Indian highways. *Proc. 10<sup>th</sup> World Conference on Transport Research (WCTR)*, Istanbul, Turkey, July 2004, CD-ROM.
103. **Errampalli, M.**, Reddy, T. S., and Ravi Shekar, CH., 2004. Modelling mode choice for metropolitan cities of second order in India. *Proc. International Conference on Transport Policy and Operation (TRANSPO)*, IIT, Chennai, India, February 2004, pp. 407-416.
104. Velmurugan, S., **Errampalli, M.** and Reddy, T. S., 2004. Traffic operating characteristics on major arterials in urban area - Chennai city as case study. *Proc. International Conference on Transport Policy and Operation (TRANSPO)*, IIT, Chennai, India, February 2004, pp. 709-718.
105. Reddy, T. S., **Errampalli, M.** and Reddy, J. V. R., 2002. TSM actions to improve traffic operations - A case study. *Proc. International Conference on Advances in Civil Engineering (ACE)*, **II**, IIT, Kharagpur, India, January 2002, pp. 922-931.

**f. List of Publications in National Conferences**

106. **Errampalli, M.**, and Gangopahyay, S. 2015. Energy Efficient and Environment-friendly approach with respect to Transportation for Future Sustainability. *Proc. National Seminar on Energy and Environmental Challenges: Indian Perspective*, IEST, Shibpur, October, 2015, pp 70-79.

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<sup>4</sup> Received Session Best Presentation Award in SCIS & ISIS 2006, University of Tokyo, Japan

107. Ponnurangam, P., **Errampalli, M.** and Velmurugan, S. 2015. Development of Link Performance Function for Urban Roads in India Urban Roads in India Urban Roads in India Urban Roads in India. *Proc. 2<sup>nd</sup> National Conference and Workshop on Recent Trends in Traffic Engineering (RATE 2015)*, SVNIT Surat, July 3-4, 2015, CD-ROM.
108. Rejitha Nath, R., Ravi Sekhar, Ch., **Errampallim M.** 2015. Bus and Metro Network Integration by Developing Optimised Feeder Routes in the National Capital Territory of Delhi. *Proc. 2<sup>nd</sup> National Conference and Workshop on Recent Trends in Traffic Engineering (RATE 2015)*, SVNIT Surat, July 3-4, 2015, CD-ROM.
109. Raval, N., Jakkula, N., **Errampalli, M.** and Prajapati, P. 2015. Development of Methodology to Estimate Commuter Satisfaction Level for Evaluation of ITS based Public Transport System in Indian city. *Proc. 2<sup>nd</sup> National Conference and Workshop on Recent Trends in Traffic Engineering (RATE 2015)*, SVNIT Surat, July 3-4, 2015, CD-ROM.
110. Advani, M., Velmurugan, S., Kumar, P. V. P. and **Errampalli, M.** 2015. Defining and Analyzing Forceful Gap Behavior at Unsignalised Intersections. *Proc. 2<sup>nd</sup> National Conference and Workshop on Recent Trends in Traffic Engineering (RATE 2015)*, SVNIT Surat, July 3-4, 2015, CD-ROM.
111. Arun, A., **Erramapalli, M.** and Velmurugan, S. 2015. Road Crash Frequency Prediction for Indian National Highways using Soft-Computing Tools. *Proc. 2<sup>nd</sup> National Conference and Workshop on Recent Trends in Traffic Engineering (RATE 2015)*, SVNIT Surat, July 3-4, 2015, CD-ROM.
112. Patel, P. D., **Errampalli, M.** and Dave, S. M. 2015. Evaluation of Traffic Management Measures by Developing Traffic Assignment Models. *Proc. 2<sup>nd</sup> National Conference and Workshop on Recent Trends in Traffic Engineering (RATE 2015)*, SVNIT Surat, July 3-4, 2015, CD-ROM.
113. Kaur, S., Gupta, N. J., Chand, S. and Errampalli, M. (2015). "Evaluation of Parking Facilities at Public Transport Terminals", *Proc. 2<sup>nd</sup> National Conference and Workshop on Recent Trends in Traffic Engineering (RATE 2015)*, SVNIT Surat, July 3-4, 2015, CD-ROM.
114. Sarada, P., **Errampalli, M.** and Ravinder, K. 2014. Prediction of Future Trips Using Fuzzy Logic Based Trip Generation Model. *Proc. Colloquium on Transportation Systems Engineering & Management (CTSEM)*, NIT Calicut, May 12-13, 2014.
115. Patil, K. S., Prasad, C. S. R. K. and **Errampalli, M.** 2014. Evaluation of Sustainable Integrated Public Transit System - A Case Study of Delhi. *Proc. Colloquium on Transportation Systems Engineering & Management (CTSEM)*, NIT Calicut, May 12-13, 2014.
116. Kedia, A. S., Azizi, S. A., **Errampalli, M.** and Joshi, G. J. 2014. Evaluation of Public Transport Policy for Surat City: A Comparative Study through MNL and FRBS. *Proc. Transportation Young Research Symposium (TYRES)*, NIT Warangal, March 27-29, 2014.
117. Sarada, P., Ravi Sekhar, Ch. and **Errampalli, M.** 2014. Comparison of Deterministic and Dynamic Traffic Assignment Technique - A Case Study of Urban Road Network in Delhi. *Proc. Transportation Young Research Symposium (TYRES)*, NIT Warangal, March 27-29, 2014.
118. Patil, K. S., **Errampalli, M.** and Prasad, C. S. R. K. 2014. Methodology for Evaluation of Sustainable Integrated Public Transit System. *Proc. Transportation Young Research Symposium (TYRES)*, NIT Warangal, March 27-29, 2014.
119. Solanki M. C., Velumurugan, S., **Errampalli, M.** and Vashi, B. D. 2011. Development of road user cost models for high speed corridors in India. *Proc. 3<sup>rd</sup> National Civil Engineering Student Research Symposium*, IIT Bombay, Mumbai, March 2011.
120. Shah, P. M., Padma, S., **Errampalli, M.** and Dave, J. M. 2011. Probabilistic model for prediction of road crash severity on high speed corridors of India. *Proc. 3<sup>rd</sup> National Civil Engineering Student Research Symposium*, IIT Bombay, Mumbai, March 2011.

121. Ravinder, K. and **Errampalli, M.** 2010. Impact of national auto fuel policy emission norms on vehicular air pollution in Delhi. *Proc. National Get-Together on Road Research and Its Utilisation*, Central Road Research Institute (C.R.R.I.), New Delhi, March 2010.
122. **Errampalli, M.** 2009. Application of fuzzy logic in developing microscopic traffic simulation model for urban road network. *Proc. CSIR Work Shop on Advances and Applications of Mathematical Modelling (AAMM - 2009)*, C-MMACS, CSIR, Bangalore, May 2009, pp. 23.
123. **Errampalli, M.**, Okushima, M. and Akiyama, T., 2008. Fuzzy logic microscopic traffic simulation to analyse roadside parking problem. *Proc. 10<sup>th</sup> Soft Computing Techniques in Civil Engineering*, Kansai University, Osaka, Japan, February 2008.
124. **Errampalli, M.**, Okushima, M. and Akiyama, T., 2005. Evaluation of public transport policy by microscopic simulation model. *Proc. 32<sup>nd</sup> Conference on Infrastructure Planning, Japan Society of Civil Engineers (JSCE)*, **32 (310)**, Miyazaki University, Miyazaki, Japan, December 2005, CD-ROM.
125. Okushima, M., **Errampalli, M.** and Akiyama, T., 2005. Analysis and evaluation of bus lane using traffic simulation. *Proc. 25<sup>th</sup> Traffic Engineering Conference, Japan Society of Transportation Engineers (JSTE)*, Tokyo, Japan, November 2005, pp. 281-284 (in Japanese).
126. **Errampalli, M.**, Reddy, T. S., and Murthy, A. V. H. N., 2002. Estimation of PCU values and saturation flows at signalised intersections. *Proc. Emerging Trends in Road Transport (RORTRAN)*, **II**, IIT, Kharagpur, India, September 2002, pp. 5.19-5.28.
127. Velmurugan, S., **Errampalli, M.** and Reddy, T. S., 2002. Changing operating speeds on rural highways. *Proc. Emerging Trends in Road Transport (RORTRAN)*, **II**, IIT, Kharagpur, India, September 2002, pp. 5.29-5.40.
128. Reddy, T. S., and **Errampalli, M.**, 2001. A quick method of estimating traffic flows on urban road network. *Proc. Challenges in Road Transport for 21<sup>st</sup> Century (CIRT)*, TIET, Patiala, India, February 23-24, 2001, pp. 209-212.

d. *Any Other information*

***Invited Lectures in Important Technical Forums (other than conferences)***

1. Given a lecture on *Microscopic Simulation Model considering Public Transport Policy* at Kobe University, Kobe, Japan on September 16<sup>th</sup>, 2005.
2. Delivered a lecture on *Development of Fuzzy Logic based Microscopic Traffic Network Simulation Model* at Kyoto University, Kyoto, Japan on April 27<sup>th</sup>, 2007.
3. Invited Lecture delivered at National Seminar on *Road Safety and Urban Traffic Management* organized by Tamil Nadu Police Academy (TNPA) at Chennai on November 30<sup>th</sup>, 2009.
4. Given Invited Talk on *Parking Fuzzy Logic based Car-following and lane change modelling for Microscopic Traffic Simulation* in BITS, Pilani on September 24<sup>th</sup>, 2011.
5. Given Expert Talk on *Parking Pricing as TDM Tool* in CSE Conference on Parking Reforms for a Liveable City on August 17<sup>th</sup>, 2011, at New Delhi.
6. Delivered many periodical lectures as part of CRRRI Refresher / International Courses on the topics like “Economic Evaluation of Highway projects and Road User Cost Models”, “Fundamentals of Traffic Engineering and Transportation System Management”, “Concept of Road User Effects in HDM-IV”, “Road Safety Audit” etc.
7. Given Invited Presentation on *Travel Demand Modeling with Soft-Computing Techniques* at SVNIT, Surat on May 16<sup>th</sup>, 2013.
8. Given Invited Presentation on *Need for Public Transportation System using ITS Technology for India* at IISc, Bangalore on May 28<sup>th</sup>, 2013.

9. Given Presentation on *Traffic Simulation Tools to Evaluate various Transportation System Management (TSM) Measures: A Case Study of Port Blair City* in 2<sup>nd</sup> Indian PTV User Group Meeting on March 8<sup>th</sup>, 2013 at New Delhi.
10. Given Expert Talk on *Tolling Issues in India, Planned vs Reality* in Conference organized by Infraline Energy on February 26<sup>th</sup> 2013 at New Delhi.
11. Given Invited Presentation on *Traffic Data Collection Methodologies: ITS Role* at IIT, Delhi on May 20<sup>th</sup>, 2014.
12. Given Invited Presentation on *Energy Efficient and Environment-friendly approach with respect to Transportation for Future* during National Seminar on Energy and Environmental Challenges: Indian Perspective at IEST, Shibpur on August 21<sup>st</sup>, 2015.
13. Given Invited Presentation on *Sustainable approach with respect to Transportation for Smart Cities* during National Seminar on Smart Cities at ACE, Agra on November 19<sup>th</sup>, 2015.
14. Given Invited Presentation on *Need for Sustainable Integrated Public Transportation for Smart Cities* in International Conference on Sustainable Urban Road Transportation at New Delhi on 21<sup>st</sup> Dec 2016 organised by ASSOCHAM.
15. Given Invited Presentation as Panelist in Panel Discussion in SAFE (a SIAM initiative) Annual Convention 2017 on *Vision towards Safer Roads: Technology, Education & Enforcement* on April 20<sup>th</sup>, 2017 at Mayfair Lagoon, Bhubaneswar, Odisha.
16. Given Invited Keynote Presentation in the Sustainable Urban Mobility Conference on the topic *Sustainability Approach with respect to Public Transportation for Smart Cities* conducted by CSIR-NEERI, Nagpur on March 13<sup>th</sup>, 2018 at NASC, Pusa Complex, New Delhi.
17. Given Invited Presentations on *Sustainability Approach with respect to Public Transportation for Smart Cities* and *Sustainability Approach with respect to Public Transportation A Case Study of Delhi* at Anna University, Chennai on May 8<sup>th</sup>, 2018.

#### **M. Tech/ B. Tech Dissertations Guided**

1. Mayur D. Patel, 2010. *Speed-Flow Characteristics and Capacity of Four-Lane and Six-Lane Divided Carriageway*, M. E. Thesis, Submitted to The M. S. University of Baroda, Vadodara, March 2010.
2. Kalpesh K. Patel, 2010. *Assessment of Vehicle Operating Cost on High Speed Corridors & Developing VOC Equations*. M. E. Thesis, Submitted to The M. S. University of Baroda, Vadodara, March 2010.
3. Sabita. N., 2010. *Speed-Flow Characteristics and Capacity of Multi-Lane Highways*. M. E. Thesis guided as external guide, Submitted to NIT, Warangal, June 2010.
4. Vineesha. CH., 2010. *Development of Road User Cost Equations for High Speed Corridors*. M. E. Thesis, Submitted to NIT, Warangal, June 2010.
5. Dhaval K. Barot, 2010. *Impact of Lane Change Behaviour on Capacity of Multi-Lane Highways using Microscopic Simulation*. M. E. Thesis, Submitted to SVNIT, Surat, July 2010.
6. Himani Patel, 2011. *Evaluation of roadway capacity of multi-lane highways under varying terrain and lane change behavior using microscopic traffic simulation*, M. E. Thesis, Submitted to The MS University, Vadodara, May 2011.
7. Mahesh Solanki, 2011. *Critical Evaluation of Free Speed Characteristics and Development of VOC Models for High Speed Corridors in India*, M. E. Thesis, Submitted to The M. S. University of Baroda, Vadodara, March 2011.
8. Deepa, C. 2011, *Development of Congestion Cost Equations for High Speed Corridors*, M. E. Thesis, Submitted to NIT, Surathkal, April 2011.



9. Kumar, M. 2012. *Mode Choice Model using Fuzzy Logic Technique*, M. Planning. (Transport) Thesis, Submitted to SPA, New Delhi, May 2012.
10. Arun, A. 2012. *Road Crash Frequency and Severity Prediction Models for Indian National Highways using Conventional and Soft Computing Tools*, M. Tech Thesis, Submitted to CSIR-CRRI, New Delhi, June 2012.
11. Nikhil Sehgal, 2012. *Transportation System Management (TSM) using Micro-simulation Techniques*, B. Tech Thesis, Submitted to BITS, Pilani, October 2012.
12. Shivam Chaturvedi, 2012. *Evaluation of Delhi Bus Rapid Transit (BRT) System*, B. Tech Thesis, Submitted to BITS, Pilani, October 2012.
13. Sarada, P., 2013. *Travel Demand Forecasting using Fuzzy Logic*, M. Tech Thesis, Submitted to CSIR-CRRI, New Delhi, June 2013.
14. Pramod Bhaskar, 2014, *Methodology for Assessing the Social, Economical and Environmental Effects of Public Transportation Systems*, M. E. Thesis, Submitted to NIT, Surathkal, April 2014.
15. Ankit Kathuria, 2014. *Intercity Mode Choice Modelling Using Soft Computing Techniques*, M. Planning. (Transport) Thesis, Submitted to SPA, New Delhi, May 2014.
16. Rejitha Nath, R. 2015. *Development and Evaluation of Integration of Public Transportation System*, M. Tech Thesis, Submitted to CSIR-CRRI, New Delhi, June 2014.
17. Patil, K. S., 2015. *Methodology for Evaluation of Sustainable Integrated Public Transportation*, M. E. Thesis, Submitted to NIT, Warangal, April 2015.
18. Satyabir Singh, 2015. *Intercity Mode Choice Modelling Using Stated Preference Technique*, M. Planning. (Transport) Thesis, Submitted to SPA, New Delhi, May 2015.
19. Zuber Mohammad, 2015. *Impact of Accessibility Index on Mode Choice Behaviour*, M. Planning. (Transport) Thesis, Submitted to SPA, New Delhi, May 2015.
20. G. J. Meenan, 2016. *Evaluation of bus frequency and quality of service - A case study Delhi*, M. Tech Thesis, Submitted to Jawaharlal Nehru Technological University (JNTU) Hyderabad, Telangana, June 2016.
21. Parth Patel, 2016. *Development of Traffic Assignment Model for evaluation of Traffic Control Measures* M. E. Thesis, Submitted to The M. S. University of Baroda, Vadodara, March 2016.
22. Nimit Rawal, 2016. *Methodology for Estimation of Commuter Satisfaction Level for Evaluation of ITS Based Public Transport System in Indian City*, M. E. Thesis, Submitted to The M. S. University of Baroda, Vadodara, March 2016
23. Akash Parashar, 2016, *Evaluation of Effectiveness of ITS technologies for Public Transportation*, M. Tech Thesis, Submitted to GSITS, Indore, June 2016.
24. Sarah Suvidha, M. 2018. *Development of Car-Following Model for Indian Conditions*, M. Tech Thesis, Submitted to Jawaharlal Nehru Technological University (JNTU) Hyderabad, Telangana, June 2018.

### ***Other Significant Achievements***

- As **Project Leader**, Successfully Completed **Two International Projects** (EUTRAIN in 2012 by FEHRL, Belgium and MEGALOG in 2018 by The World Bank Group, Washington D.C.)
- Organised Four National Dissemination Workshops on MEGALOG on Dec 13<sup>th</sup> 2017, SUSTRANS on 17<sup>th</sup> March 2017, Driving Simulator 10<sup>th</sup> Feb 2016 and STIC on March 23<sup>rd</sup> 2013.
- Received '**Excellent**' Grade Awarded by Sectoral Monitoring Committee (SMC) to SUSTRANS which was lead by the Candidate as Champion (Project Leader)

- Organised Nine Task Force Committee Meetings (TFC) and Two Expert Advisory Meetings (EAG) for the project SUSTRANS which was lead by the Candidate as Champion (Project Leader)
- **Member Secretary, IRC H-1 Committee** on Transport Planning & Traffic Engineering, 2018-2020
- As **Head of the Division (HOD)**, managed the Transportation Planning Division of CSIR-CRRI for three years from 2015-2018, instrumental in increasing research output in terms of the publications especially in SCI Journals and achieved ECF about 10 crores from externally funded projects
- Member of **Doctoral Research Committee (DRC)** at SPA Delhi and Member of **Doctoral Advisory Committee (DAC)** at CSIR-CRRI for AcSIR for monitoring and guiding PhD Students
- **Faculty** for two subjects on 'Transportation Planning' and 'Soft Computing Techniques' for AcSIR
- **Member in Various Committees** such as Recruitment Interview Committees/ Boards of PGRPE Trainee Scientists at RAB, Screening Committee for Selection of PGRPE Students, PhD Students for AcSIR and Project Assistants
- **Faculty** for different training programmes of CSIR-CRRI
- **Reviewer** for various International Conference like CTRG, TPMDC, EASTS etc.
- **Reviewer for International Journals** like JAT, Transportation Problems, CSTP, Nuero-Computing, Transportation Research etc.

10. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.



(Dr. ERRAMPALLI MADHU)