Curriculum Vitae



1. Name Dr. S. MOSES SANTHAKUMAR

2. Designation: Professor

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6. Field of Specialization: Transportation Engineering

7. Employment Profile:

Job Title	Employer	From	То
Professor (HAG)	National Institute of Technology, Tiruchirappalli	29.04.19	Till date
Professor	National Institute of Technology, Tiruchirappalli	03.02.99	28.04.19
Assistant Professor	Regional Engineering College, Tiruchirappalli	19.05.92	02.02.99
Lecturer	Regional Engineering College, Tiruchirappalli	09.09.88	18.05.92
Sr. Project Officer	Indian Institute of Technology, Madras	Sep.86	Sep.88
Project Associate	Indian Institute of Technology, Madras	Jan.84	Jan.86

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

Degree	Board / University	Year	Grade	Subjects
Ph.D.	Indian Institute of Technology, Madras	1988		Transportation Eng.
M.Tech.	Indian Institute of Technology, Madras	1981	8.42	Transportation Eng.
B.Tech.	Indian Institute of Technology, Madras	1979	7.58	Civil Engineering
P.U.C.	Madurai Kamarajar University	1974	82.5 %	
S.S.L.C.	Directorate of School Education	1973	87.2 %	

9. Academic/Administrative Responsibilities within the University:

Position	Faculty/Department/Centre/Institution	From	То
Head of the Centre of Excellence in Transportation Engineering (CETransE)	Department of Civil Eng., NITT	2013	Till date
Chairman, Transport Advisory Committee	NITT	2018	2020
Coordinator, Media Interface of NIT Trichy (MINT)	NITT	2017	2019
Registrar (i/c)	NITT	2012	1 month
Head of the Department	Department of Civil Eng., NITT	2009	2012
Dean, IC&SR	NITT	2007	2008
Dean, Students	NITT	2006	2007
Controller of Examinations	RECT	2002	2006
Staff Adviser, Civil Engineering Association	Department of Civil Eng., RECT	2000	2001
Editor, RECORD & LANCER	RECT	1998	2002
Convener, Sports Committee	RECT	1996	1998
M.Tech. (TEM) Course Coordinator	Department of Civil Eng., RECT	1995	2015
Adviser, Staff Recreation Club	RECT	1995	1996
Hostel Warden	RECT	1990	1995
Computer Laboratory in-charge	Department of Civil Eng., RECT	1989	2009

10. Academic/Administrative Responsibilities outside the University:

Position	Institution	From	То
Co-ordinator, State Technical Agency (STA)	Pradhan Mantri Grama Sadak Yojana (PMGSY) Scheme, NRRDA, GoI	2000	Till date
Developer, RAPID (Rural Action Plan Integrated Database) Computer Software	Directorate of Rural Development, DRDAs and Collectorates	1998	Till date

11. Awards, Associateships etc.:

Year of Award	Name of the Award	Awarding Organization

12. Fellowships:

Year of Award	Awarding	From	То
	Organization	(Month/Year)	(Month/Year)

13. Details of Academic Work:

(i) Curriculum Development

CE312 CAD I and CE407 CAD II were newly introduced into the curriculum of B. Tech. (Civil Engineering). The concept of teaching Civil Engineering applications of Numerical Techniques was implemented successfully.

The concept of unified CAD in Civil Engineering for the three M.Tech. streams was developed. Later the course content for CE 608 CAD in Transportation Engineering for the M. Tech. (Transportation Engineering and Management) was evolved.

Formulated the CE607 Computer Simulation Applications in Transportation Engineering course at the PG level by introducing hands-on exercises in GPSS simulation language. The course was later modified as CE612 Computational Techniques in Transportation Engineering by adding modules in ANN and GA.

CE609 Traffic and Pavement Engineering Laboratory for M. Tech. (Transportation Engineering and Management) was developed by introducing Traffic Survey exercises into the erstwhile Highway Engineering syllabus.

(ii) Courses taught at Postgraduate and Undergraduate levels

Postgraduate

CE601 Highway Traffic Analysis and Design CE602 Road Transport Management and Economics

CE604 Transportation Planning

CE609 Traffic and Pavement Engineering Laboratory

CE610 CAD in Transportation Engineering

CE611 Theory of Traffic Flow

CE612 Computational Techniques in Transportation Engineering

CE613 Intelligent Transportation Systems

CE617 Transportation Network Analysis and Optimization

CE819 Highway Design and Safety

Undergraduate

BE102 Basic Civil Engineering

BS102 Introduction to Civil Engineering

CE312 Computational Laboratory - I

CE403 Transportation Engineering – II

CE407 Computational Laboratory – II

CE471 Transportation Planning

CEPE19 Traffic Engineering and Safety

(iii) Projects guided at Postgraduate level

122 theses in Computer Simulation, ITS, Expert Systems, Network Analysis and GIS

(iv) Other contributions

Implemented E-Rickshaws as an alternative to buses / autos inside NITT campus. These are eco-friendly, economical and generate no air and noise pollution.

Under the MHRD Project on 'Strengthening of the Transportation Engineering Laboratory', purchased and installed Transportation Engineering equipment including the Marksman 600 Automatic Traffic Data Acquisition System.

Was involved in setting up the modernised Transportation Engineering Laboratory through TEQIP.

As Computer Laboratory in-charge for 20 years, created the Departmental Computer Centre and the Computer Centre Annexe. Modern computers were purchased and installed for the use of UG, PG and PhD scholars. The Department of Civil Engineering became the first Department in NITT to provide computing facilities in the rooms of all faculty members.

Software such as VISSIM, NISA, STAAD, GT-STRUDL, MxRoad, Intergraph, GPSS, PC_ArcInfo, Visual Modflow, etc were acquired.

Under the AICTE Project on 'Multimedia Tools for Teaching of Civil Engineering', development of Multimedia-based Teaching Modules for Civil Engineering Education was initiated.

14. Details of Major R&D Projects:

Title of Duniagt	Funding Agency	Dura	tion	Amount
Title of Project	Funding Agency	From	То	Rs. Lakhs
State Technical Agency (STA) for the Pradhan Mantri Gram Sadak Yojana (PMGSY) Scheme	National Rural Roads Development Agency, GoI	2000		78.71
Centre of Excellence in Transportation Engineering (CETransE)	Ministry of Human Resources Development, GoI	2013	2019	250.0
Evaluation of Pavement Performance of Coir Reinforced Rural Roads in Tamil Nadu	Coir Board, Ministry of MSME, GoI	2017	2019	34.5
Pavement Performance Studies on Coir Geotextiles Reinforced Rural Roads in Tamilnadu	Coir Board, Ministry of MSME, GoI	2010	2016	419.87
Pavement Evaluation Studies on the Performance Enhancer RBI Grade 81	M/s. Maarvel Touchnology Pvt. Ltd.	2013	2018	4.0
Urban Speed Management using ITS	Ministry of Urban Development and Indian Institute of Technology, Madras, Chennai	2010	2015	15.0
Coir Geotextiles Reinforced Low Volume Rural Road Pavement Performance Studies in Tamilnadu and Puducherry	Coir Board, Ministry of MSME, GoI	2007	2010	12.5
Preparation of State of the Art Report on Facilities for Pedestrians/Physically Challenged Persons/ Passengers	Ministry of Road Transport and Highways, GoI	2012	2014	3.6

Preparation of State of the Art Report on Road Safety with Emphasis on Non-Motorised Traffic	Ministry of Road Transport and Highways, GoI	2012	2014	3.6
Rural Road Traffic Volume Study in Tamilnadu	National Rural Roads Development Agency, GoI	2006	2009	10.0
Rural Road Pavement Performance Study (RRPPS)	National Rural Roads Development Agency, GoI	2006	2009	10.0
GIS-GPS Based Monitoring of Public Transport Vehicles	Ministry of Human Resources Development, GoI	2003	2005	12.0
Household Survey to Assess Rural Transport Infrastructure	IIM, Bangalore	1998	1999	0.3
Modernisation of Transportation Engineering Laboratory through Plan Fund	Ministry of Human Resources Development, GoI	1998	1999	30.0
Multimedia Tools for Teaching of Civil Engineering	AICTE, GoI	1995	1997	5.0
Strengthening of the Transportation Engineering Laboratory at Civil Engineering Department, R.E.C., Tiruchirappalli.	Ministry of Human Resources Development, GoI	1989	1990	8.0

Details of Major Consultancy Projects:

Title of Draiget	Client	Duration		Amount
Title of Project	Chent	From	То	Rs. Lakhs
Consultancy Works in Pavement Design, Material Testing and Site Investigation	Govt. & Private	2007		30.00
Proof-checking of Six-laning of Ramanattukara – Kappirikkad section of NH 66/17	NHAI	2021	2022	9.09
Proof-checking of Four-laning of Dindigul – Pollachi section of NH209/83	NHAI	2020	2021	9.74
Road Safety Audit of Madurai Ring Road	Highways Department	2019	2020	6.42

Proof-checking of Four-laning of Karaikudi – Ramnad Section of NH210	NHAI	2017	2019	14.16
Road Safety Audit of Walayar – Vadakkancherry Section from Km 182+250 to Km 240+000 of NH47	NHAI	2016	2017	4.86
Design of Job Mix Formula for the construction of Automotive Test Track works of NATRiP at Oragadam, Chennai	L & T and RITES	2015	2016	10.91
Approval of Plan and Profile of Thanjavur – Pudukkottai Section of NH226	NHAI	2014	2015	7.59
Approval of Plan and Profile of Thirumayam – Manamadurai Section of NH226	NHAI	2014	2015	10.68
Concurrent Evaluation of Flood Management Programme in the Kollidam River	WRO, PWD	2011	2013	26.53
Proof checking of Two-laning of Trichy – Karaikudi Section of NH210 Widening	NHAI	2011	2013	7.12

15. Number of PhDs guided:

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
P. Partheeban	Evaluation of Transportation System Management Techniques using GIS	Supervisor	2003
R. Vidya	Study of Impact of Work Zones using Simulation	Supervisor	2015
Sandeep Singh	Impact of Multiclass Commercial Vehicles on Multilane Highway Traffic Stream Characteristics under Mixed Traffic Platooning Conditions	Supervisor	Submitted 2022
Sowjanya	Evaluation of Driver Behaviour and Safety at Urban Mid-block Sections Under Mixed Traffic Conditions	Supervisor	In progress
Borigarla Brahmaiah	Delay Model for Unsignalized and Signalized Intersections under Heterogeneous Traffic Conditions	Supervisor	In progress
R. Thenmozhi	Residential Location modeling using GIS	Co-Supervisor	In progress

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools:

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson / Paper presenter)	Event Organized by	Venue
11/03/2017	Workshop on "Urban Transport Management (UTM- 2017)	National	Participant	ABUHEA	Bangalore
19/07/2016	Regional Review Meeting under PMGSY	National	Speaker	NRRDA	Bangalore
30/06/2015	Regional Review Meeting under PMGSY	National	Speaker	NRRDA	Bangalore
30/10/2014	PMGSY Workshop on Alternate Technologies and Materials	National	Speaker	Department of Civil Engineering, NIT, Warangal	NIT, Warangal
29/10/2014	Regional Review Meeting under PMGSY	National	Speaker	NRRDA	Hyderabad
22- 24/08/2014	Workshop on Non- conventional Materials and Technologies under PMGSY	National	Participant	Department of Civil Engineering, IIT Bhuba- neshwar	IIT Bhuba- neshwar
09- 10/12/2013	Workshop on Intelligent Transportation Systems	Internati onal	Participant	Department of Civil Engineering, IIT Madras	IIT Madras
23/09/2013	Workshop on Construction of Concrete Roads and Overlays	National	Participant	Department of Civil Engineering, IIT Madras	IIT Madras

15- 16/02/ 2013	Workshop on Using Science and Data in Road Safety Management	National	Participant	Centre of Excellence in Urban Transport, Dept. of Civil Engineering, IIT Madras	IIT Madras
04/01/2013	Regional Review Meeting under PMGSY	National	Speaker	NRRDA	Bangalore
13- 14/07/ 2012	National Conference on Urban Mobility - Challenges, Solutions and Prospects	National	Participant	Department of Civil Engineering, IIT Madras	IIT Madras
13/08/ 2010	Workshop on Urban Transport Challenges and Solutions	National	Participant	Department of Civil Engineering, IIT Madras	IIT Madras
17/07/ 2010	Regional Awareness Conference, Water Convention 2011	National	Participant	Indian Water Works Association (IWWA)	Trichy
10- 11/03/2010	National Conference on TREnds and Advances in Transportation Engineering (TREAT- 2010)	National	Participant	Bangalore University	Bangalore
02- 04/10/2008	TEQIP workshop on the Seven Habits of highly effective people	Local	Participant	NITT	Munnar, Kerala
22- 24/05/2007	National Conference and Exposition of Rural Roads	National	Participant	NRRDA	Vigyan Bhawan, New Delhi
22- 23/03/2007	National Conference on Earthquake and Transportation Engineering	National	Speaker	Sona College of Technology, Salem	Salem
06/03/2007	Workshop on Vehicle Tracking using GPS	National	Speaker	IRTT, Erode	Erode

	and GIS				
21- 22/11/2006	National conference on GIS, GPS and RS Applications in Transportation Planning and Management	National	Speaker	St. Peter's College of Engineering, Chennai	Chennai

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

Title of Activity	Level of Event (Inter- national/ National/ Local)	Date (s)	Role	Venue
NRIDA sponsored Three-day Training Programme on DPR Preparation for the AEEs and AEs of the Rural Development Department	National	13- 15/11/2017	Convenor	NITT
NRIDA sponsored Five-day Training Programme on Basic Training for Newly Inducted Officers in PMGSY for the AEEs and AEs of the Rural Development Department	National	23- 27/10/2017	Convenor	NITT
Three – day Workshop on Traffic Simulation Tools organized by CETransE	National	24- 26/08/2017	Co-Convenor	NITT
Three – day Workshop on Binder Rheology organized by CETransE	National	15- 17/12/2016	Co-Convenor	NITT
Three – day Short Term Training Programme on Recent Trends in Pavement Engineering organized by CETransE	National	12- 14/12/2016	Co-Convenor	NITT
Three – day Workshop on Traffic Simulation Tools organized by CETransE	National	01- 03/12/2016	Co-Convenor	NITT
Workshop on Alternate Technologies and Materials for PMGSY Roads for the	National	17/11/2014	Convenor	DRD, Chennai

EEs and AEEs of the Rural Development Department				
Workshop on R&D Technology Initiatives for the EEs and AEEs of the Rural Development Department	National	18/09/2014	Convenor	DRD, Chennai
Training Programme on Coir Geotextiles for the Rural Development AEEs and AEs	National	07/10/2013	Co-Convenor	NITT
DRD sponsored One-day Refresher Course on Quality Control of PMGSY Roads for State Quality Monitors	National	09/05/2013	Convenor	NITT
PMGSY Workshop on Rural Road Planning and Design for AEEs of RD Dept and ADEs of NH Dept	National	22/02/2013	Convenor	NITT
DRD sponsored One-day Workshop on Alternate Technologies for Road Construction for the EEs and AEEs of the Rural Development Department	National	07/02/2013	Convenor	DRD, Chennai
SIRD sponsored Training Programme on Convergence of Pradhan Mantri Gram Sadak Yojana (PMGSY) with other RD Programmes	National	01/11/2011	Co-Convenor	SIRD, Chennai
NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	National	13- 18/07/2009	Convenor	NITT
NRRDA sponsored three -day Training Programme on PMGSY for the AEEs of the Rural Development Department	National	23- 25/06/2009	Convenor	NITT
NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	National	18- 23/05/2009	Convenor	NITT
TEQIP sponsored One Day Workshop on Design, Construction and Maintenance of Roads	National	29/10/2007	Convenor	NITT
NHAI sponsored Road Safety – Training of Users for Dissemination of Road Safety Manual – Users Workshop (UW6)	National	20- 22/10/2005	Co-Convenor	New Delhi
NHAI sponsored Road Safety – Training of Users for Dissemination of Road	National	17-	Co-Convenor	New

Safety Manual – Users Workshop (UW5)		19/10/2005		Delhi
NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	National	01-06/11/2004	Convenor	NITT
NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	National	25- 30/10/2004	Convenor	NITT
NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	National	04-09/10/2004	Convenor	NITT
NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	National	20- 25/09/2004	Convenor	NITT
NRRDA sponsored three -day Training Programme on PMGSY for the AEs of the Rural Development Department	National	17- 19/09/2003	Convenor	NITT
ISTE – AICTE sponsored Winter School on Advanced Computer Applications in Transportation Engineering (ACATE)	National	December 1998	Convenor	NITT

18. Invited Talks delivered:

Topic	Date	Inviting Organization
Intelligent Transportation Systems for Road Safety in the Workshop on Road Safety for the District Road Safety Council	13/07/2022	District Collectorate, Tiruvarur
Shortest Path Algorithms for Traffic Congestion Management in the DST sponsored Summer School on Application of Geospatial Technology for Smart City Traffic and Transportation Planning	07/05/2022	Chennai Institute of Technology, Chennai
Intelligent Transportation Systems – A Webinar	24/09/2021	Thiagaraja College of Engineering, Madurai
Green Technologies in PMGSY – Keynote Address in the 75 th Independence Day Programme on PMGSY	18/09/2021	NRIDA, GoI, District Collectorate, Karur

Alternate Technologies in PMGSY – Keynote Address in the 75 th Independence Day Programme on PMGSY	17/08/2021	NRIDA, GoI, District Collectorate, Trichy
Green Transportation – Keynote Address in the Seventh Conference on Transportation Systems Engineering and Management (CTSEM 2020)	30/12/2020	NATPAC, Thiruvananthapuram
Intelligent Transportation Systems for Disaster Management in the AICTE STTP on Disaster Mitigation: A shift from Disaster Management towards Disaster Preparedness	03/12/2020	Crescent Institute of Science and Technology, Chennai
Smart Transport for Smart Cities in the International Conference on Development and Management of Smart Cities and Homes	28/02/2020	PSG College of Technology, Coimbatore
Coir Geotextiles in Rural Road Construction in the AICTE STTP on Application of Geosynthetics in the Construction Industry	28/01/2020	Kumaraguru College of Technology, Coimbatore
Intelligent Transportation Systems in the TEQIP FDP on Recent Trends in Transportation Engineering and Town Planning	08/05/2019	Coimbatore Institute of Technology, Coimbatore
Intelligent Transportation Systems for Road Safety in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department	14/11/2018	Asian Institute of Transport Development at Madurai
Safety in Construction Zones and Hazardous Road Locations in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department	14/11/2018	Asian Institute of Transport Development at Madurai
Intelligent Transportation Systems for Road Safety Engineering Measures in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department	09/10/2018	Asian Institute of Transport Development at Salem
Safety Aspects in Construction and Maintenance in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department	08/10/2018	Asian Institute of Transport Development at Salem
Intelligent Transportation Systems for Road Safety in the Training Programme on Road Safety Engineering Measures for the Engineers of	10/08/2018	Asian Institute of Transport Development at Trichy

the Tamilnadu Highways Department		
Hazardous Road Locations and Case Studies for Roads and Bridges in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department	16/05/2018	Asian Institute of Transport Development at Anna University, Chennai
Safety in Construction Zones for Roads and Bridges in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department	16/05/2018	Asian Institute of Transport Development at Anna University, Chennai
Green Transportation in the International Conference on Environmental Management and Green Technologies (ICEMGT 2017)	27/09/2017	St. Peter's College of Engineering and Technology, Chennai
Intelligent Transportation Systems in the National Seminar on Transportation System Analysis and Temporal Pattern Recognition Studies	30/03/2017	NSN College of Engineering and Technology, Karur
Urban Mobility in the Annual Seminar on Urban Development - Traversing towards Sustainability	10/03/2017	Madras School of Social Work, Chennai
Intelligent Transportation Systems in the Inauguration of International Conference on Recent Developments in Civil and Environmental Engineering – 16 (ICRDCEE 2016)	24/10/2016	Alagappa Chettiar College of Engineering and Technology, Karaikudi
Intelligent Transportation Systems in the AICTE QIP Course on Latest Technologies and Challenges in Transportation Engineering	25/04/2016	Coimbatore Institute of Technology, Coimbatore
Essentials of Research in the Inauguration of the PhD Programme	28/11/2015	Periyar Maniammai University, Thanjavur
Intelligent Transportation Systems in the Inauguration of National Conference	23/07/2015	SNS College of Engineering and Technology, Coimbatore
Recent Advances in Civil Engineering at the Department Day Function	31/03/2015	Shivani Engineering College, Trichy
Intelligent Transportation Systems at the National Conference	10/03/2015	Ramakrishna College Engineering and Technology, Trichy
Recent Advances in Civil Engineering at the Inauguration of Civil Engineering Association	28/08/2014	Mt. Zion College Engineering and Technology, Pudukkottai
Intelligent Transportation Systems at the	27/08/2014	Roevers College

Inauguration of Civil Engineering Association		Engineering and Technology, Perambalur
Advances in Civil Engineering at the Civil Engineering Association	14/07/2014	Francis Xavier Engineering College, Tirunelveli
Intelligent Transportation Systems at the TEQIP sponsored National Workshop on Recent Developments in Transportation Engineering	07/03/2014	Coimbatore Institute of Technology, Coimbatore
Intelligent Transportation Infrastructure at the TEQIP sponsored Faculty Development Program on Innovative Practices in Highway Design, Construction, Maintenance and Safety	20/02/2014	Thiagarajar College of Engineering, Madurai
Intelligent Transportation Systems at the TEQIP Workshop on Transportation Infrastructure Planning – Latest Technologies	21/11/2013	Department of Civil Engineering, NITT
Keynote Address at the National Conference on Latest Advances in Civil Engineering for Sustainable Development – LACE 2013	10/04/2013	SNS College of Technology, Coimbatore
Road Safety with Emphasis on Non-Motorised Traffic at the 67 th Meeting of the Highway Research Board	08/01/2013	73 rd Annual Session of the Indian Roads Congress, Coimbatore
Applications of ITS under Indian Conditions in the National Conference on Sustainable Transportation using ITS (STUITS)	17/02/2012	St. Peter's College Engineering and Technology, Chennai
Recent Advances in Civil Engineering in the Inauguration of Civil Engineering Association	09/02/2012	Roevers College Engineering and Technology, Perambalur
Advances in Civil Engineering at the Civil Engineering Association	14/07/2011	M.A.M. College of Engineering & Technology, Trichy
Intelligent Transportation Systems at the Inauguration of Civil Engineering Association	29/08/2010	PRIST University, Thanjavur
ITS Applications in Road Safety at the Workshop on Innovative Techniques in Road Safety Management	28/07/2010	Sri Ram Engineering College, Chennai
Project Management in the Training Programme on Design, Construction and Maintenance of Bridges for the Engineers of Rural Development Department and Panchayat Raj	28/06/2010	Department of Civil Engineering, NITT
Project Management in the Training Programme	21/06/2010	Department of Civil

on Design, Construction and Maintenance of Bridges for the Engineers of Rural Development Department and Panchayat Raj		Engineering, NITT
Project Management in the Training Programme on Design, Construction and Maintenance of Bridges for the Engineers of Rural Development Department and Panchayat Raj	31/05/2010	Department of Civil Engineering, NITT
Research – Is it necessary for a teacher? at the Inauguration of ISTE Chapter	09/12/2008	Karunya University, Coimbatore
Intelligent Transportation Systems at the Advanced training programme on application of geomatics in urban transportation planning and management	27/10/2008	St. Peters University, Chennai
Advanced Public Transportation Systems at the Advanced training programme on application of geomatics in urban transportation planning and management	27/10/2008	St. Peters University, Chennai
Intelligent Transportation Systems at the National Seminar	26/09/2008	SASTRA, Thanjavur
Road Safety- An Engineering Perspective at the Inaugural function of the Civil Engineering Association	22/07/2008	Karunya University, Coimbatore
Relative Grading System at the Meeting of Directors and HODs	21/07/2008	Karunya University, Coimbatore
Relative Grading System at the Board of studies meeting	12/05/2008	Bharathidasan Institute of Management, Trichy
Intelligent Transportation Systems	06/05/2008	Institution of Engineers (India), Trichy

19. Membership of Learned Societies:

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Fellow	Institution of Engineers	F-114122-4
Member	Highway Research Board	
Life Member	Indian Roads Congress	M-28407

Life Member	ISTE	
Life Member	Institute of Urban Transport	

20. Academic Foreign Visits:

Country	Duration of Visit	Programme
Singapore	Nov 19 - Dec 18, 2007	TEQIP Visit to National University of Singapore
USA	Dec 02 - Jan 19, 2014	Visit to George Mason University

21. Publications:

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volu me (No.)	Page num -bers	Year	Impact Factor of Journal
Sandeep Singh and S. Moses Santhakumar	Application of Infra- Red Sensor Technique to Collect Lane-Based Traffic Characteristics of Highways and its Analysis	Springer Nature Applied Sciences			Under review	Emerging Science Citation Indexed
Sandeep Singh and S. Moses Santhakumar	Multivariate Analysis of Mixed Traffic Flow Characteristics of Multi-Lane Highway Facility Using Infra- Red Sensor-Based Traffic Data	Journal of Traffic and Transportation Engineering (JTTE)			Under review	Elsevier
R.Then- mozhi, Nisha Radha- krishnan and S. Moses Santhakumar	Study on Efficiency of Existing Urban Road Space in Trichy City	Case Studies on Transport Policy			Under review	Elsevier

Sandeep Singh and S. Moses Santhakumar	Lane-based Impact Assessment of Heavy-Duty Vehicles on Mixed Traffic Flow Characteristics of Highway	Transportation Letters			Under review	Science Citation Indexed (IF =1.84)
Sandeep Singh, Rajesh Kumar Panda, Anisha Biswal and S. Moses Santhakumar	A Comparison of Macroscopic Traffic Stream Models under Non-Lane- Based Heterogenous Highway Traffic	Lecture Notes in Civil Engineering, International Conference on Recent Advances in Civil Engineering (ICRACE), National Institute of Technology Silchar		Sept 2021	In- Press	Springer Nature, Singapore SCOPUS
Sandeep Singh and S. Moses Santhakumar	Analysis of Vehicle Time Headway Distributions for Passenger Car and Commercial Vehicles Interaction	Select Proceedings of Conference on Transportation Systems Engineering and Management (CTSEM-2021), National Institute of Technology Calicut		Aug 2021	In- Press	Springer Nature, Singapore SCOPUS
Sandeep Singh, Vidya Rajesh and S. Moses Santhakumar	Spatio-temporal Traffic Characteristics Analysis on Multi- Lane Highways Under Varying Traffic Flow and Density Levels	Proceedings of the Sixth International Conference of Transportation Research Group of India (CTRG-2021), National Institute of Technology Tiruchirappalli	DOI: 10.10 07/97 8- 981- 19- 3494- 0_6		2022	Springer Nature, Singapore SCOPUS
Sandeep Singh, Vidya Rajesh and S. Moses Santhakumar	Examining the Time Headway Distributions on Rural Highways Under Different Traffic Flow	Recent Advances in Civil Engineering, Lecture Notes in Civil Engineering, International	https:/ /doi.or g/10.1 007/9 78- 981-	256, 417- 428	2022	Springer, Singapore SCOPUS

	Conditions	Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS-2021), NMAM Institute of Technology (NITTE)	19- 1862- 9_26			
Sandeep Singh and S. Moses Santhakumar	Analyzing the Demand and Pattern of Electric- Rickshaw Trips: En Route to Sustainable Travel Option	In: Kumar, P.G., Subramaniam, K.V.L., Santhakumar, S.M., Satyam D., N. (eds) Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering	https://doi.org/10.1007/978-981-19-0189-8_26	233, 303- 316	2022	Springer, Singapore SCOPUS
Sandeep Singh, R. Vidya and S. Moses Santhakumar	Effect of Mixed Traffic Platooning by Commercial Vehicle Types on Traffic Stream Characteristics of Highways	Periodica Polytechnica Transportation Engineering	https://doi.org/10.3311/PPtr.18200		2022	SCOPUS- Q2
Sandeep Singh and S. Moses Santhakumar	Modeling Traffic Parameters Accounting for Platoon Characteristics on Multi-Lane Highways	Transportation in Developing Economies (TIDE) Journal	https://doi.or g/10.1 007/s 40890 -022- 00166 -3	8 (2)	July 2022	Springer, Emerging Science Citation Index
Sandeep Singh and S. Moses Santhakumar	Assessing the Impacts of Heavy Vehicles on Traffic Characteristics of Highways under Mixed Traffic Platooning Conditions	European Transport \ Trasporti Europei	DOI: 10.48 295/E T.202 2.86.3		2022	SCOPUS- Q4
Sandeep Singh and	Platoon-Based Impact Assessment	International Journal of	https:/ /doi.or	Vol. 20,	2022	Web of Science +

S. Moses Santhakumar	of Heavy-Duty Vehicles on Traffic Stream Characteristics of Highway Lanes Under Mixed Traffic Environment	Intelligent Transportation Systems Research	g/10.1 007/s 13177 -021- 00268 -z	pp. 29– 45		SCOPUS- Q3
Sowjanya and S. Moses Santhakumar	Trajectory Data and Driver Behaviour Analysis at Urban Mid-block Section	Proceedings of the Fifth International Conference of Transportation Research Group of India. Lecture Notes in Civil Engineering	https://doi.or g/10.1 007/9 78- 981- 16- 8259- 9_34	Vol. 219. pp. 519- 529	Mar 2022	Springer, Singapore SCOPUS
Sandeep Singh and S. Moses Santhakumar	Influence of Platooning of Heavy Transport Vehicles Operation on Traffic Flow Mix on Intercity Highways	Proceedings of the Fifth International Conference of Transportation Research Group of India. Lecture Notes in Civil Engineering	https:/ /doi.or g/10.1 007/9 78- 981- 16- 8259- 9_29	Vol. 219. pp. 447- 459	Mar 2022	Springer, Singapore SCOPUS
Sandeep Singh and S. Moses Santhakumar	Effect of Two Wheeler Proportion on Passenger Car Unit at Urban Signalised Intersections	Proceedings of the Fifth International Conference of Transportation Research Group of India. Lecture Notes in Civil Engineering	https://doi.or g/10.1 007/9 78- 981- 16- 8259- 9_28	Vol. 219. pp. 435- 446	Mar 2022	Springer, Singapore SCOPUS
Sandeep Singh and S. Moses Santhakumar	Evaluation of Lane- Based Traffic Characteristics of Highways Under Mixed Traffic Conditions by Different Methods	Journal of The Institution of Engineers (India): Series A	Vol. 102 (3)	pp. 719- 735	2021	Scopus- Q4
Sowjanya and S. Moses Santhakumar	Driver Behavior and Safety Analysis in Context of Weak	Turkish Journal of Computer and Mathematics	ISSN: 1309- 4653	Vol. 12, No 8	2021	Scopus

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Sowjanya and S. Moses Santhakumar	Evaluation of Driver Behavior and Safety at Urban Mid-Block Sections Under Mixed Traffic Conditions	Materials Today Proceedings, Elsevier Journal	ISSN: 2214- 7853	Pape r ID: MA TPR _267 34	2021	
Sandeep Singh, R. Vidya, Bishnu Kant Shukla and S. Moses Santhakumar	Analysis of Traffic Flow Characteristics Based on Area- Occupancy Concept on Urban Arterial Roads under Heterogeneous Traffic Scenario – A Case Study of Tiruchirappalli City	In: Y. A. Mehta et al. (eds.), Advances in Water Resources and Transportation Engineering, Lecture Notes in Civil Engineering	https://doi.or g/10.1 007/9 78- 981- 16- 1303- 6_6	Vol. 149, pp. 69- 84	June 2021	Springer Nature, Singapore SCOPUS
Sandeep Singh, Sarishma Bhandari and S. Moses Santhakumar	Analysis of Vehicle- 2-Vehicle Time Headway Distributions Under Mixed Traffic Environment	Proceedings of the 1st International Conference on Emerging Research and Innovations in Civil Engineering (ERICE-2021), D.G.G.E.C, Surat	<u>ISBN</u> <u>: 978-</u> <u>93-</u> <u>54733</u> <u>-18-5</u>		May 2021	
Sandeep Singh, Vidya Rajesh, Rajesh Kumar Panda and S. Moses Santhakumar	A Study on Characteristics of Vehicular Lateral Position on Rural Highways	Proceedings of the International Conference on Community Based Research and Innovations in Civil Engineering (CBRICE-2021), Manipal University, Jaipur, IOP Conference Series: Earth and Environmental Science	DOI: 10.10 88/17 55- 1315/ 796/1/ 01204 6	796 (1)	Mar 2021	SCOPUS
Sowjanya and S. Moses Santhakumar	Analysis of Driver Behavior in Vehicle Following and Lane	Information Technology in Industry, ESCI	ISSN: 2204- 0595	Vol. 9, No.	2021	

	Changing Parameters on Urban Mid-block Section			2		
Sandeep Singh and S. Moses Santhakumar	Empirical Analysis of Impact of Multi- class Commercial Vehicles on Multi- lane Highway Traffic Characteristics Under Mixed Traffic Conditions	International Journal of Transportation Science and Technology (IJTST)	https://doi.or g/10.1 016/j.i jtst. 2021. 07.00 5		2021	Scopus- Q1
Sandeep Singh, B. Priya- dharshni, Challa Prathyusha and S. Moses Santha- kumar	Investigating the Characteristics and Choice of Electric Scooter Users: A Case Study of Tiruchirappalli City	Innovations in Sustainable Energy and Technology, ASST, 1st National Conference on Innovations in Sustainable Energy and Technology (ISETIndia) 2020, Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Bangalore	https://doi.org/10.1007/978-981-16-1119-3_15	pp. 161- 171	2021	Springer, Singapore SCOPUS
Sandeep Singh, B. Priya- dharshni, Challa Prathyusha and S. Moses Santha- kumar	Assessment of the Electric Rickshaws' Operation for a Sustainable Ecosystem	Innovations in Sustainable Energy and Technology, ASST, 1st National Conference on Innovations in Sustainable Energy and Technology (ISETIndia) 2020, Rajiv Gandhi Institute of Petroleum Technology (RGIPT), Bangalore	https://doi.o rg/10. 1007/ 978- 981- 16- 1119- 3_29	pp. 331- 341	2021	Springer, Singapore SCOPUS
Sandeep Singh, Borigarla	Analysis of Two- Wheeler Characteristics at	Resilience and Sustainable Transportation	DOI: 10.10 61/97	pp. 35-	June 2020	Web of Science

Barhmaiah, Ashith Kodavanji and S. Moses Santhakumar	Signalised Intersection under Mixed Traffic Conditions: A Case Study of Tiruchirappalli City	Systems, Proceedings of the 13 th Asia Pacific Transportation Development Conference, Shanghai, China, American Society of Civil Engineers (ASCE)	80784 48290 2.005	43		
Sandeep Singh, Rajesh Kumar Panda, Dinesh Kumar Saw and S. Moses Santhakumar	Effect of Heavy Transport Vehicles on Speed-Flow Characteristics of Mixed Traffic on Multi Lane Divided Intercity Highways	Resilience and Sustainable Transportation Systems, Proceedings of the 13 th Asia Pacific Transportation Development Conference, Shanghai, China, American Society of Civil Engineers (ASCE)	DOI: 10.10 61/97 80784 48290 2.021	pp. 176- 185	June 2020	Web of Science
Sandeep Singh, Bishnu Kant Shukla and S. Moses Santhakumar	Infra-Red Sensor- Based Technology for Collecting Speed and Headway Data on Highways Under Mixed Traffic Conditions	Proceedings of the 7 th International Conference on Signal Processing and Integrated Networks (SPIN-2020), Amity University, Noida, Institute of Electrical and Electronics Engineers (IEEE)	DOI: 10.11 09/SP IN489 34.20 20.90 70829	pp. 607- 611	Feb 2020	Web of Science + SCOPUS
Sandeep Singh, Akshay Kumar, Muhamed Niyas and S. Moses Santhakumar	Multivariate Analysis of Freeways Speed and Time Headway under Mixed Traffic Streams	Proceedings of the 2020 International Conference on COMmunication Systems & NETworkS (COMSNETS-2020), Bengaluru, Institute of Electrical and	ISSN: 2155- 2509. DOI: 10.11 09 / COM SNET S 48256	pp. 116- 121	Jan 2020	Web of Science + SCOPUS

		Electronics Engineers (IEEE)	.2020. 90274 97			
Sandeep Singh, Nidhi Kathait, M. Kishore, S. Satheesh, K. Gunasekaran and S. Moses Santhakumar	Modeling of Time Headway Distribution on Multilane Divided Intercity Highways Under Mixed Traffic Condition	Proceedings of the International Conference on Innovative Trends in Civil Engineering for Sustainable Development (ITCSD-2019), National Institute of Technology Warangal	ISBN: 978- 93- 89354 -46-1	pp. 185- 186	Sept 2019	Taylor and Francis, Scopus
Sandeep Singh, Rajesh Panda, Dinesh Kumar and S. Moses Santhakumar	Estimation of Passenger Car Unit and Capacity Using Infra-Red Sensor Data on Multilane Divided Intercity Highways	Proceedings of the International Conference on Innovative Trends in Civil Engineering for Sustainable Development (ITCSD-2019), National Institute of Technology Warangal	ISBN: 978- 93- 89354 -46-1	pp. 179- 180	Sept 2019	Taylor and Francis, Scopus
N.S.L. Aparna and S. Moses Santhakumar	Rear End Crashes on National Highways - Serious Threat to Road Safety	Journal of Development Management and Communication	Vol. II, No. 4	ISS N 2348 - 7739	Oct – Dec 2015	
V. Dinesh Kumar, K. Kavitha and S. Moses Santhakumar	Simulation Study of Vehicle Queue and Delay Time at Toll Plaza – A Case Study	STM Journals		pp.1 -15	2015	
K. Kavitha and S. Moses Santhakumar	Feasibility Study of Emergency Vehicle Signal Preemption System for Tiruchirappalli City	International Journal of Applied Engineering Research	Vol. 10 No. 62	ISS N 0973 - 4562	2015	
R. Vidya,	Estimation of IRI	ACEE	Vol.		Aug	

S. Moses Santhakumar and Samson Mathew	from PCI in Construction Work Zones	International Journal of Civil and Environmental Engineering	2, No. 1		2013
R. Vidya, and S. Moses Santhakumar	Simulation Study of Construction Work Zones – A Case Study	Recent Trends in Civil Engineering & Technology, STM Publications	Vol. 2, No. 2		Feb 2012
R. Vidya, S. Moses Santhakumar and Samson Mathew	Impact of Work Zones on Speed Variation During Widening of the Highway	International Journal of Engineering Science and Technology	Vol. 4, No. 2	pp. 546 - 554	Feb 2012
P.Partheeban and S. Moses Santhakumar	Evaluation of Short Term Transportation System Management Measures using GIS	European Journal of Transportation Research			May 2009
P.Partheeban and S. Moses Santhakumar	Traffic Incident Management System using GIS	Indian Highways			Nov 2007
S. Moses Santhakumar P.Partheeban and Venu Bhaskar Reddy	GIS Based Transportation Information Management System	Indian Highways			July 2002
P.Partheeban and S. Moses Santhakumar	Optimal Bus Stop Spacing and Location using GIS	Urban Transport Journal, Institute of Urban Transport (India)	Vol. 1, No. 2	pp. 63- 78	Dec 2000
P.Partheeban and S. Moses Santhakumar	Geographic Information System for Major Roads	Indian Journal of Transport Management, Central Institute of Road Transport	Vol. 24, No. 2	pp. 169- 176	Feb 2000

P.Partheeban and S. Moses Santhakumar	Geographical Information System for Major Roads – A Case Study of Tiruchirappalli	Indian Highways			Dec 1998
S. Selvaradj and S. Moses Santhakumar	Extraction of Small Area Network for Analysis of TSM Options	Transportation Research Board, National Research Council			Sept 1998
S. Moses Santhakumar and Srinivas Pathuri	Development of Areawide Traffic Control System for Tiruchirappalli	Journal of Traffic and Transportation			Sept 1998
S. Moses Santhakumar	User Perception of the Shuttle Bus Transit System in Madurai	Indian Highways			July 1998
P.Partheeban and S. Moses Santhakumar	Applicability of GIS/IVHS/GPS Technology for Indian Conditions	Journal of Traffic and Transportation			Jan 1997
S. Moses Santhakumar	Headway Distribution at Origin of Urban Bus Routes	Journal of Traffic and Transportation			Oct 1996
S. Moses Santhakumar	Expert System for Tyre Management in Public Transport Corporations	Indian Highways		pp. 17-25	Dec 1993
P. M. Koola and S. Moses Santhakumar	Wave Data off Trivandrum using an On- line Data Analysis System	Journal of the Institution of Engineers (India)	Vol. 73, Part CV5	pp. 163- 167	Jan 1993
M. Subbi Reddy and S. Moses Santhakumar	User Compliance at Pedestrian Subways	Transportation Research Board, National Research Council			Aug 1992
P. Hariharan and S. Moses Santhakumar	Transportation Systems Management Options to Improve Urban Bus Route Performance using Computer Simulation	Transportation Research Board, National Research Council	TRR 1338	pp. 22-27	1992

P. M. Koola and S. Moses Santhakumar	Identification of Representative Wave Record from Multiple Wave Records	Marine Engineering Journal, Institution of Engineers			June 1991
S. Moses Santhakumar	Comparative Study of Pedestrian Crossings using Computer Simulation	Indian Highways - Computer Applications in Highway Engineering	Vol. 19, No. 6	pp. 89-97	June 1991
S. Moses Santhakumar	Performance Evaluation and Design of Signal Settings by Simulation	Indian Highways	Vol. 19, No. 3	pp. 11-21	Mar 1991
D.J. Victor and S. Moses Santhakumar	Components of In- Vehicle Travel Time on City Bus Routes	Journal of the Institution of Engineers (India)	Vol. 68, Part CI1	pp. 51-53	July 1987
D.J. Victor and S. Moses Santhakumar	Distribution of Green Time and Red Time at Police-Controlled T- junctions and Mid-block Pedestrian Crossings	Indian Highways	Vol. 15, No. 6	pp. 18-25	June 1987
D.J. Victor and S. Moses Santhakumar	Simulation Study of Bus Transit	Journal of Transportation Engineering, American Society of Civil Engineers	Vol. 112, No. 2	pp. 199- 211	Mar 1986
D.J. Victor and S. Moses Santhakumar	Boarding Time and Stopped Time of City Buses in Madras	Indian Highways	Vol. 13, No. 10	pp. 28-33	Oct 1985

(B) <u>Conferences/Workshops/Symposia Proceedings</u>:

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page num- bers	Conference Theme	Venue	Year
Sandeep Singh and S. Moses Santhakumar	Investigations on the Impact of Multi Class Commercial Vehicles on Multi Lane Highway Traffic Stream Characteristic s Under Mixed Traffic Platooning Conditions	Sixth International Conference of Transportation Research Group of India, CTRG 2021		Transportation Systems	National Institute of Technology Tiruchirappalli	Dec 2021
Sandeep Singh and S. Moses Santhakumar	Analysis of Vehicle Headway Distributions for Passenger Car and Commercial Vehicles Interaction	8 th Colloquium on Transportation Systems Engineering and Management (CTSEM-2021)		Transport- ation Systems	National Institute of Technology Calicut	Aug 2021
Sowjanya and S. Moses Santhakumar	Driver Behaviour Analysis at Urban Mid- block Section	7 th Colloquium on Transportation Systems Engineering and Management (CTSEM-2020)		Transport- ation Systems	KSCSTE- NATPAC and CET	Dec 2020
Sandeep Singh, Vidya Rajesh, Prabesh Adhikari and S. Moses Santhakumar	Micro- Simulation Study on the Effect of Motorized Two-Wheelers on Traffic Speed Characteristics	7 th Colloquium on Transportation Systems Engineering and Management (CTSEM-2020)		Transportation Systems	KSCSTE- NATPAC and CET	Dec 2020

Sandeep Singh, Borigarla Barhmaiah and S. Moses Santhakumar	Performance Analysis of Signalized Intersections on Arterial Roads under Mixed Traffic Conditions	7 th Colloquium on Transportation Systems Engineering and Management (CTSEM-2020)		Transport- ation Systems	KSCSTE- NATPAC and CET	Dec 2020
Sandeep Singh, Challa Prathyusha and S. Moses Santhakumar	Analysis of Time Headway Distributions on Multi-Lane Highways Considering Passenger Car- Heavy Vehicle Interaction	Proceedings of the 13 th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC-2020)		Transport- ation Systems	Indian Institute of Technology Bombay	Dec 2020
Satya Ranjan Samal and S. Moses Santhakumar	Analysis of Traffic Congestion Impacts of Urban Road Network under Indian Condition	International Conference on Materials Science and Engineering ScTACE 2020	1006, pp. 1- 9	Transport- ation Systems		2020
Sowjanya and S. Moses Santhakumar	Evaluation of Driver Behavior at Urban Mid- block Section	Sustainable Construction Technologies & Advancements in Civil Engineering		Transport- ation Systems	Sri Vishnu Engineering College for Women	Oct 2020
Sandeep Singh, Akshay Kumar and S. Moses Santhakumar	Analysis of Vehicle-Type- Specific Time Headway Distributions Under Heterogeneous Traffic Conditions	New and Effective Innovations, Technologies and Key Challenges 2020 (NCCE-NITK- 2020)		Transport- ation Systems	National Institute of Technology Karnataka, Suratkal	Jan 2020
Sowjanya and S. Moses	Driver Behaviour	International Conference on		Transport- ation	National Institute of	Sept

Santhakumar	Analysis using Trajectory Data at Urban Mid-Block Section for Mixed Traffic Conditions	Innovative Trends in Civil Engineering for Sustainable Development (ITCSD-2019)		Systems	Technology Warangal	2019
Sandeep Singh, S. Satheesh, M. Kishore, K. Gunasekaran and S. Moses Santhakumar	Modeling of Headway for Four-Lane Divided Inter- City Highways	Sixth Colloquium on Transportation Systems Engineering and Management (CTSEM-2019)		Transport- ation Systems	Sardar Vallabhbhai National Institute of Technology Surat	June 2019
Hemanthini A.R. and S. Moses Santhakumar	Factors Influencing Traffic Accidents – A Case Study of Tiruchirappalli City	12 th Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)	Paper ID 315	Transport- ation Systems	IIT Bombay	19- 21 Dec 2016
Venkata Varsha Gandla and S. Moses Santhakumar	Non-Lane- Based Microscopic Modelling Under Heterogeneous Traffic Conditions	12 th Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)	Paper ID 286	Transport- ation Systems	IIT Bombay	19- 21 Dec 2016
Chetan Bhole, V. Sunitha, Samson Mathew and S. Moses Santhakumar	Field implement- ation and Performance of Coir Geotextiles Reinforced Roads	International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8)		Pavement Engineering	Singapore	27- 29 July 2016
K. Kavitha and S. Moses Santhakumar	Traffic Incident Duration and Incident Recovery Time	International Conference on Engineering and Material Sciences 2016 (ICEMS 2016)		Civil Engineering	Jaipur National University	17- 18 Mar ch 2016

	Prediction Model for Tiruchirappalli City					
AR. Hemanthini and S. Moses Santhakumar	Safety Analysis for Urban Roads in Tiruchirappalli City	International Conference on Engineering and Material Sciences 2016 (ICEMS 2016)		Civil Engineering	Jaipur National University	17- 18 Mar ch 2016
R.Then- mozhi, Nisha Radha- krishnan and S. Moses Santhakumar	Spatial Distribution of Urban Road Network in Trichy City using Quick- bird Satellite Image	International Conference on Sustainable Developments in Science Engineering Technology & Humanities		Sustainable Develop- ment	PSN Engineering College, Dindigul	10- 11 Mar ch 2016
R.Then- mozhi, Nisha Radha- krishnan and S. Moses Santhakumar	Evaluation of Existing Road Transport Infrastructure in Trichy City Using GIS	GeoSmart India/ GeoSmart Asia 2016		GIS	Greater Noida	1-3 Mar ch 2016
K. Kavitha and S. Moses Santhakumar	Emergency Vehicle Signal Preemption System For Tiruchirappalli City Having Heterogeneous Traffic Condition	25th World Road Congress on Roads and Mobility – Creating New Value from Transport	Paper No. IP735	Roads and Mobility	PIARC, Seoul	2-6 Nov 2015
R.Then- mozhi, Nisha Radha- krishnan and S. Moses Santhakumar	GIS Based Quantitative- Spatial Assessment of Existing Road Network in Trichy City Using Statistical Approaches	Conference on Transportation Systems Engineering and Management (CTSEM)		Transport- ation Systems	NITT	1-2 May 2015

S. Naveen Kumar and S. Moses Santhakumar	Co-ordination of Traffic Signal as an ITS Measure for Urban Arterials	Conference on Transportation Systems Engineering and Management (CTSEM)	Transport- ation Systems	NITT	1-2 May 2015
K. Kavitha and S. Moses Santhakumar	Impact of Emergency Vehicle Signal Preemption on Urban Traffic	Conference on Transportation Systems Engineering and Management (CTSEM)	Transport- ation Systems	NITT	1-2 May 2015
AR. Hemanthini and S. Moses Santhakumar	Accident Analysis and Remedial Measures for Tiruchirappalli City	Conference on Transportation Systems Engineering and Management (CTSEM)	Transport- ation Systems	NITT	1-2 May 2015
V. Dinesh Kumar and S. Moses Santhakumar	Simulation Study of Vehicle Queue and Delay Time at Toll Plaza	Conference on Transportation Systems Engineering and Management (CTSEM)	Transportation Systems	NITT	1-2 May 2015
R. Rajkumar and S. Moses Santhakumar	Improvements to Public Transport in Chennai by Integrated Multimodal Transportation System	Conference on Transportation Systems Engineering and Management (CTSEM)	Transport- ation Systems	NITT	1-2 May 2015
N.S.L. Aparna and S. Moses Santhakumar	Analysis and Mitigation of Rear End Collisions on Highways	Conference on Transportation Systems Engineering and Management (CTSEM)	Transport- ation Systems	NITT	1-2 May 2015
D. Arundoss and S. Moses Santhakumar	Analysis of Geometric Features and Traffic Characteristics	Conference on Transportation Systems Engineering and Management	Transport- ation Systems	NITT	1-2 May 2015

	of Service Roads Using Simulation	(CTSEM)				
C. Ritika and S. Moses Santhakumar	Simulation Based Performance Evaluation of Urban Roundabout with Signals	Conference on Transportation Systems Engineering and Management (CTSEM)	a	Fransport- ation Systems	NITT	1-2 May 2015
Ch. Sudheer Kumar and S. Moses Santhakumar	Feasibility of Monorail for Tiruchirappalli City	Conference on Transportation Systems Engineering and Management (CTSEM)	a	Fransport- ation Systems	NITT	1-2 May 2015
R.Then- mozhi, Nisha Radha- krishnan and S. Moses Santhakumar	Spatial Temporal Analysis of Urban Expansion and Population Growth in Trichy City Using GIS	National Conference on Technological Innovations for Sustainable infrastructure	I	Sustainable Infra- structure	NIT Calicut	13- 14 Mar ch 2015
K. Kavitha and S. Moses Santhakumar	Feasibility Study of Emergency Vehicle Signal Preemption System for Tiruchirappalli City	International Conference on Advances in Civil Engineering Materials and Processes (ICACEMAP)		Civil Engineering	Coimbatore Institute of Tech., Coimbatore	7-8 Jan 2015
S. Iswarya and S. Moses Santhakumar	Simulation of Traffic Flow Around an Urban Roundabout	First Annual Conference on Innovations and Developments in Civil Engineering, ACIDIC-2014		Civil Engineering	NITK, Surathkal	19- 20 May 2014
S. Divya and S. Moses Santhakumar	Simulation of Pedestrian Crossing	First Annual Conference on Innovations and		Civil Engineering	NITK, Surathkal	19- 20 May

	Behaviour along an Urban Corridor	Developments in Civil Engineering, ACIDIC-2014				2014
Chetan Bhole, V. Sunitha, Samson Mathew and S. Moses Santhakumar	Potential of Coir Fiber in Subgrade Improvement	1st International Conference on Natural Fibers, ICNF2013		Pavement Engineering	Guimarães- Portugal	9-11 June 2013
Arif Ashraf, Nisha Radha- krishnan, Samson Mathew and S. Moses Santhakumar	Speed Detection and Management – ITS Application	India Geospatial Forum, Hyderabad		GIS	International Convention Centre, Hyderabad	22 - 24 Janu ary 2013
S. Naveen Kumar, S. Moses Santhakumar and Samson Mathew	Traffic Signal Co-ordination as an ITS Measure for Urban Arterials in Chennai City	National Conference on Urban Mobility – Challenges, Solutions and Prospects		ITS	IIT Madras	13- 14 July 2012
Arif Ashraf, Nisha Radha- krishnan, Samson Mathew and S. Moses Santhakumar	Urban Speed Management using ITS	National Conference on Urban Mobility – Challenges, Solutions and Prospects		ITS	IIT Madras	13- 14 July 2012
M. Hemalatha. S. Moses Santhakumar and Samson Mathew	Development of GIS based Framework to Plan and Monitor PMGSY Roads	International Conference on Geospatial Technologies and Applications, Geomatrix '12		GIS	IIT Bombay	26- 29 Feb 2012
S. Naveen Kumar and S. Moses Santhakumar	Co-ordination of Traffic Signals as an ITS Measure	National Conference on Sustainable Transportation	pp. 88-99	ITS	St. Peter's College Engineering and Tech.,	16- 17 Feb 2012

	for Urban Arterials	using ITS		Chennai	
R. Vidya and S. Moses Santhakumar	Estimation of IRI from PCI in Construction Work Zones	Second International Joint Conference on Advances in Engineering and Technology	Engineering and Technology	AET – ACE, Noida	20- 21 Dec 2011
Basil Basheerudeen, Samson Mathew, S. Moses Santhakumar and Nisha Radhakrishnan	Urban Speed Management – A Case Study of Tiruchirappalli City	Research Symposium at Urban Mobility India	Urban Mobility	New Delhi	3 Dec 2011
G. Evangeline Joyce and S. Moses Santhakumar	Development of Park & Ride System in Tiruchirappalli City	International Conference of Transportation Research Group of India	Transport- ation Planning	Bangalore	Nov 2011
R. Vidya, S. Moses Santhakumar and Samson Mathew	Road Surface Image Segmentation, Texture Analysis and Classification using Image Processing	National conference on Sustainable Urban & Transportation Planning: Issues & Management Strategies (SUTRIMS 11)	Transport- ation Planning	SVNIT, Surat	8-10 July 2011
G. Evangeline Joyce, S. Moses Santhakumar and Samson Mathew	Traffic Information and Management	National Conference on Current Trends in Telematics	Telematics	Sri Ram Engineering College, Chennai	27- 28 Jan 2011
Dhanush Laxman, S. Moses Santhakumar and Samson	Advanced Driver Assistance Systems (ADAS): A	National Conference on Current Trends in Telematics	Telematics	Sri Ram Engineering College, Chennai	27- 28 Jan 2011

Mathew	State of the Art					
J. Vijay Anand, S. Moses Santhakumar and Samson Mathew	Dynamic Route Guidance System - A Case Study of Tiruchirapalli City	Indo-Us Workshop On Emerging Trends In Intelligent Transportation Systems		ITS	IIT Madras	11- 13 Feb 2010
S. Moses Santhakumar	Speed Variation in the Construction Work Zone	Proceedings of Symposium on Research in Civil Engineering	pp. 201- 202	Research in Civil Engineering	IIT Madras	5-6 Mar ch 2009
S. Sreenivasulu, R. Jayasankar, S. Moses Santhakumar and Samson Mathew	Effect of Temperature Differential on Warping Stresses in Rigid Pavements	Proceedings of Symposium on Research in Civil Engineering	pp. 191- 192	Research in Civil Engineering	IIT Madras	5-6 Mar ch 2009
S. Moses Santhakumar, Samson Mathew and A. Ganesh Raja	GIS Based Analysis of PMGSY Road Network of Tamil Nadu	National Conference on Application of GIS in Civil Engineering	pp. 173- 191	GIS	Karunya University, Coimbatore	16 Feb 2008
S. Moses Santhakumar, Samson Mathew and K. Rahul	Intelligent Transportation System Applications in Road Safety – A Case Study of Tiruchirappalli City	National Conference on Application of GIS in Civil Engineering	pp. 15–24	GIS	Karunya University, Coimbatore	16 Feb 2008
S. Moses Santhakumar, Samson Mathew, R. Jayasankar and V. Sunitha	Impact of PMGSY on Travel Characteristics of Tamil Nadu Rural Population	National Conference on Rural Roads		Rural Roads	Ministry of Rural Develop-ment, New Delhi	22- 24 May 2007

Samson Mathew, S. Moses Santhakumar, V. Sunitha and J. Sheeba	Travel Characteristics of Tamil Nadu Rural Population	National Conference on Earthquake and Transportation Engineering	pp. 144- 153	Transport- ation Engineering	Sona College of Tech., Salem	22- 23 Mar 2007
S. Moses Santhakumar	Vehicle Tracking – Principles and Applications	Workshop on Vehicle Tracking using GPS and GIS	pp. 1-17	GPS and GIS	IRTT, Erode	6 Mar 2007
Samson Mathew and S. Moses Santhakumar	Studies on Polymer Modified Bituminous Mixes	National Seminar on Roads 2007	pp. 172- 178	Highway Engineering	Institution Engineers (India), Belgaum	1-2 Mar 2007
Samson Mathew, S. Moses Santhakumar, S. Saraswathy and V. Palanikumar	Application of GPS in Study of Highway Geometrics	National Conference on GIS, GPS and RS Applications in Transportation Planning and Management	pp. 151- 159	GIS, GPS and RS	St. Peter's Engineering College, Chennai	21- 22 Nov 2006
S. Moses Santhakumar, Samson Mathew and A. Siddique	Pavement Management System for Rural Roads	National Conference on GIS, GPS and RS Applications in Transportation Planning and Management	pp. 122- 132	GIS, GPS and RS	St. Peter's Engineering College, Chennai	21- 22 Nov 2006
S. Moses Santhakumar, Samson Mathew and Sayed Bilal	Applications of Geographical Information Systems in the Transportation Sector	National Conference on GIS, GPS and RS Applications in Transportation Planning and Management		GIS, GPS and RS	St. Peter's Engineering College, Chennai	21- 22 Nov 2006
R. Jayasankar and S. Moses Santhakumar	Influence of Fly Ash, WMA on Properties of	Second National Conference on Advances in Materials and		Concrete Structures	IIT Madras	12- 13 Aug

	Self Compacting Concrete	Mechanics of Concrete Structures				2005
R. Sundaresan, Samson Mathew and S. Moses Santhakumar	GIS-GPS Based Monitoring of Water Supply Trucks of Tiruchirappalli Corporation	National Conference on Applications of Information and Communication Technologies in Urban Infrastructure Planning and Management		Urban Infra- structure Planning	Jaya Engineering College, Chennai	19 Mar ch 2005
Samson Mathew and S. Moses Santhakumar	Free Speeds of Vehicles on NH-45 and NH-67	National Conference on Advances in Road Transportation (ART-2005)	pp. 287- 299	Road Transport- ation	NIT, Rourkela	12- 13 Feb 2005
Samson Mathew and S. Moses Santhakumar	Signal Timing Optimisation for Urban Arterials in Tiruchirappalli City	National Conference on Advances in Road Transportation (ART-2005)	pp. 274- 286	Road Transport- ation	NIT, Rourkela	12- 13 Feb 2005
Samson Mathew and S. Moses Santhakumar	Vehicle Tracking using GPS - A Case Study of Two Wheeler Tracking in NIT Tiruchirappalli Campus	National Conference on Application of GIS and GPS in Civil Engineering	pp. 138- 147	GIS	Jaya Engineering College, Chennai	03 July 2004
S. Moses Santhakumar	Application of GIS to PMGSY Roads	National Conference on Applications of GIS for Rural Development		GIS	TTTI, Chennai	11- 12 Dec 2003
S. Moses Santhakumar and G. Gokuldas	Transportation System Management for Madurai	International Conference on GIS – Map India 2003		GIS	New Delhi	28- 31 Jan 2003

	City Using GIS					
S. Moses Santhakumar	Vehicle Tracking System - A Case Study of Madurai Ring Road	International Seminar on Sustainable Development in Road Transport	pp. I-485- 496	Sustainable Develop- ment	New Delhi	8-10 Nov 2001
S. Moses Santhakumar and P. Partheeban	GIS Based Emergency Response System	International Seminar on Sustainable Development in Road Transport	pp. I-439- 451	Sustainable Develop- ment	New Delhi	8-10 Nov 2001
P. Partheeban and S. Moses Santhakumar	A Geographical Information System for the Highways around Tiruchirappalli	National Seminar on Trends and Techniques in Transportation		Transport- ation Systems	R E C, Warangal	Aug ust 1997
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