

National Institute of Technology, Tiruchirappalli:

Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Please attach
your recent
Photograph

in the form of

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

Dr. Samson Mathew has completed his B.Tech. Degree from University of Kerala, in the year 1985, M.Tech. Degree from University of Calicut in 1988 and Ph.D. from University of Calicut in 1996. He received the young scientist award for the year 1994. He joined National Institute of Technology (formerly Regional Engineering College), Tiruchirappalli in the year 1994 and is currently the **Professor of Civil Engineering**.

Dr. Samson Mathew is currently the **Dean (Students Welfare)**. He also **heads the Centre of Excellence in Transportation Engineering (CETransE)** at NIT Tiruchirappalli. CETransE was established in the year 2013 by the Department of Higher Education, Ministry of Human Resource Development, and Government of India under the scheme 'Establishment of Centers of Excellence in Frontier Areas of Sciences and Technology (FAST)'.

His teaching and research areas include Transportation Planning, Traffic Engineering, Road Safety, Pavement Management and ITS. He has guided 83 Post Graduate thesis works in various fields. Three scholars have completed Ph.D. and currently ten Ph.D. scholars are working under his guidance. He has published 36 papers in International/National journals, 29 papers in International conferences and more than 70 papers in National level conferences.

He has successfully completed **ten projects** sponsored by Ministry of Human Resources Development, Govt. of India, National Rural Road Development Agency, Coir Board etc. The total cost of completed projects is **Rs. 125 lakhs**. Currently he is coordinating **3 sponsored projects** with total grant of **Rs. 624 lakhs** with Ministry of Urban Development, Coir Board, and National Highway Authority of India. He is a member of State Technical Agency of Prime Minister Gram Sadak Yojana (PMGSY) programme for Tamil Nadu and Pondicherry. He is also actively involved in Transportation related consultancy works.

He has conducted several training programmes for academicians and professionals in various realms of Transportation Engineering. He is also a life member of the professional organizations such as Indian Roads Congress, Indian Society for Technical Education, Institute of Urban Transport, Institution of Engineers and Transport Group of India. He has delivered expert lectures in many leading institutions in South India. He has also visited Singapore, Netherlands, Hong Kong, Sri Lanka and Republic of Korea as a part of his academic programmes.

In addition to his academic contributions, he has immense involvement in taking up several administrative responsibilities in the Institute. He has been the Convener of Hostels, Chief Warden and is currently the Chairman of Estate Welfare Committee of NIT Tiruchirappalli. He was the Chief of Works for 3 years and played an instrumental role in developing the infrastructure of the campus. He was the coordinator of Golden Jubilee Celebrations of NIT, Tiruchirappalli which was inaugurated by the honorable President of India, Sri. Pranab Mukherjee on 19th July 2014.

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Bachelor of Technology (B. Tech.)	Kerala University	1985	First Class	Civil Engineering
Pre Degree	Kerala University	1980	First Class	Physics, Chemistry and Mathematics
S.S.L.C.	State Board of Examinations, Kerala	1978	First Class	All subjects

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/ Institution	From	To
Dean (Students Welfare)	NIT Tiruchirappalli	04.10.2017	Present
Head, Department of Civil Engineering	NIT Tiruchirappalli	15.02.2017	04.10.2017
Head, Centre of Excellence in Transportation Engineering (CETransE)	NIT Tiruchirappalli	20.09.2016	Present
Chief Warden	NIT Tiruchirappalli	11.09.2015	12.11.2015
Chief of Works	NIT Tiruchirappalli	09.11.2012	10.09.2015
Convener of Hostels	NIT Tiruchirappalli	01.11.2010	09.11.2012
Associate Dean(Planning &Development)	NIT Tiruchirappalli	23.07.2009	15.09.2010
Convener, Estate Works and Maintenance Committee, Institute Zone	NIT Tiruchirappalli	05.05.2008	22.07.2009
Convener, Quality Assurance Committee, Institute Zone	NIT Tiruchirappalli	14.03.2007	04.05.2008
Warden of SAPPHIRE Hostel, R.E.C., Tiruchirappalli	R.E.C., Tiruchirappalli	03.07.1996	22.09.1999
Staff Advisor, Civil Engineering Association	R.E.C., Tiruchirappalli	1998	2000
Staff Advisor, Youth Red Cross	R.E.C., Tiruchirappalli	1997	1998

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
1994	Young Scientist Award	State Committee on Science, Technology and Environment, Government of Kerala

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
1986	GATE Scholarship	GOI, at REC Calicut	July 1986	December 1987

13. Details of Academic Work

(i) Curriculum Development

1. Traffic Engineering and Highway Geometrics Design
2. Transportation Planning
3. Transportation Systems
4. Urban Transportation Systems
5. Geographical Information Systems
6. Remote Sensing and Applications
7. Intelligent Transportation Systems
8. Road Transport Management and Economics
9. Traffic Engineering and Safety
10. Highway Materials
11. Highway and Pavement Engineering
12. Railway, Airport and Harbour Engineering
13. Traffic and Transportation Engineering Lab
14. Highway Engineering Lab

(ii) Courses taught at Postgraduate and Undergraduate levels

Post Graduate Level

1. Transportation Systems
2. Transportation Planning
3. Intelligent Transportation Systems
4. Road Transport Management and Economics
5. Traffic and Highway Engineering Laboratory

Undergraduate Level

1. Highway and Pavement Engineering
2. Transportation Planning
3. Traffic and Safety Engineering

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(iii) Projects guided at Postgraduate level

1. Transportation Development Plan for Kakinada City
2. Performance Analysis of City Buses Through User Perception - A Case Study of Tiruchirappalli
3. A Study of Traffic Noise in Tiruchirappalli City
4. Remote Sensing as a Tool for Land Use Change Detection and Transportation Planning - A Case Study of Trichy
5. An Improved Plan and Design for Chatram Bus Stand
6. Integrated GIS as a Tool for Land Use Planning
7. Safe Highways through Accident Prevention and Helping Centres – an Innovative Approach
8. Evaluation of Tiruchirappalli Urban Road Network using Integrated GIS
9. Estimation of Trip Ends – A Novel Application of Artificial Neural Network in Transportation Planning
10. A Simplified Method for Flexible Pavement Overlay Design
11. Gauge Conversion in Trichy Railway Division – An impact Assessment Study
12. Travel Characteristics of Rural Population – A Case study of Tamilnadu
13. Evaluation of Employee Satisfaction Level in Road Transport Industry – A Case Study of TNSTC, Tiruchirappalli
14. A Study on Shoulder Width and its Effect on Speed and Carriageway Effective Width.
15. Road Safety Audit Using Accident Probability Index (API)
16. PDMS – A Flexible Pavement Design and Monitoring System
17. Impact of Narrow Bridges and Culverts on Traffic - A Case Study in NH – 67
18. Model Integration for Hyderabad Area Rapid Transport System
19. Ridership Estimation and Economic Analysis For Sky bus Metro
20. Travel and Mode choice Behaviour of Trip makers – A Comparative study of Tamil Nadu and Kerala
21. Quantification of Accessibility Levels – A case study of Tiruchirappalli
22. TRADES – A GIS Model for Travel Demand Estimation Using Link Volume Philosophy
23. Stabilization of Problematic Soil
24. Road Design Using Highway Design System Software
25. Vehicle Tracking using GPS – A Case Study of Two Wheeler Tracking in NIT Tiruchirappalli Campus
26. Selection of Site for Vegetable Market in Tiruchirappalli Using Integrated GIS and User Optimisation
27. Flexible Pavement Evaluation and Design of Overlay
28. Identification of Artificial Recharge Zones Using Integrated GIS
29. An Approach for Optimal Rural Road Network Planning Using Cluster Analysis – A Case Study of Pudhukottai District of Tamil Nadu
30. Integration of GIS and GPS in Travel Time Behaviour Studies
31. Potentiality of Coir Geotextile for Road Construction in Weak Soil
32. A Study on the Engineering and Chemical Properties of Seashore Soil and its Improvement
33. Effect of Road Widening and Impact of Industrial Area on Traffic – A Case Study of Stretch Between Thiruverumbur and Thuvakudi on NH 67
34. Study on the Effect of Fibre Reinforcement in Concrete Pavements
35. Environmental Impact Assessment of Proposed Mahe– Valapattanam Navigation Canal

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36. Identification of Seasonal Water Quality Changes and Its Effects on the Environmental Using Remote Sensing and GIS
37. Preparation of an Operation Plan for Sidhamalli Reservoir
38. Soil Erosion Predictive Model for Ponnaniar Reservoir Catchment Area Using Integrated GIS
39. Dam Break Analysis for Ponnaniar Dam using Mike 11
40. Integrated Transportation System for Tiruchirappalli City
41. Studies on Fiber Reinforced Silica Fume Concrete for Pavement Overlays
42. Study on Overlay Characteristics on Long-Term Performance of Pavements
43. Rural Connectivity Based on Ranking of Villages – A Case Study of Mandya District of Karnataka
44. Traveller Information System for Public Transport Buses in Tiruchirappalli City Using GPS
45. A study of Travel Characteristics on NH 45 and NH 67
46. Quantification of Urban Accessibility Level using Integrated GIS and Centrality Score
47. Study of Highway Geometric using GPS
48. Studies on Fatigue Behaviour of Bituminous Mixes
49. Rural Road Pavement Performance Study
50. Finite Element Analysis of cement Concrete Pavements
51. Urban Accessibility Evaluation – A Case Study on Ponmalai Zone
52. A Genetic Algorithm for Pavement Maintenance and Rehabilitation Optimization
53. Travel Behavior and Traffic Studies using GPS Fixed Probe Vehicles
54. Estimation of Origin – Destination Matrix from Link Volume Counts using BI- Level Programming
55. Micro Simulation of Activity – Travel Pattern for Tiruchirappalli City
56. Influence of Flaky and Elongated Aggregates on Bituminous Mix Design
57. Evaluation of Performance Enhancers in Subgrade and Subbase Layers of Flexible Pavements
58. Analysis of Temperature Stresses in Cement Concrete Pavements
59. Urban Speed Management for Tiruchirappalli City Using Speed Cameras
60. Facility Based Regional Road Network Planning – A Case Study in Tiruchirappalli Region
61. A Micro Simulation Activity Based Travel Model for Tiruchirappalli City
62. Studies on Effect of Fine Content on Bituminous Concrete Mixes
63. Urban Speed Management for Tiruchirappalli City Using ITS Technology
64. Facilities for Pedestrians and Physically Challenged
65. Impact of PMGSY Roads on Socio Economic and Travel Characteristics of Rural Population
66. Estimation of Origin-Destination Matrix from Link Volumes using Artificial Neural Network.
67. Evaluation of Operational Efficiency of Urban Road Network using Travel Time Reliability Measures
68. Study on Effect of Fine Content on Semi-Dense Bituminous Concrete
69. Impact Assessment of PMGSY Roads – Comparative Study of Palakkad and Tiruchirappalli
70. Public Transport Demand Analysis – A Case Study of Tiruchirappalli City

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71. Dynamic Travel Time Estimation of a Highway Using Macroscopic Model for Heterogeneous Traffic
72. Mode Choice Analysis of Trip Makers in Tiruchirappalli City
73. Sufficiency and Deficiency of Pedestrian Facilities in Selected Cities of Kerala
74. Simulation Study of the Impact of Curb-side bus stops and bus bays on traffic
75. Evaluation of Accessibility and Mobility Levels of the Transportation Network in Tiruchirappalli City
76. A Study on Travel Behaviour of Intercity Trip Makers in Kerala
77. Urban Freight Transport Modelling
78. Risk Management in Railway Projects
79. Accessibility and Mobility Assessment of Transportation Network in Tiruchirappalli Corporation
80. Effects of Bottom Ash Addition on Properties of Subgrade and Base Course in Flexible Pavements
81. Techno Economic Feasibility Study of Feeder Canal- Kerala (A Case Study of Ac Canal)
82. Site Selection for Wholesale Market Using GIS& Analytical Hierarchy Process
83. Bus Rapid Transit System for Tiruchirappalli City
84. Evaluation of network measures and their spatial relationship with urban structure
85. Risk Management in Railway Projects
86. Identification, mitigation and management of problems in metro rail projects
87. Effect of latent variables in mode choice model for commuter trips in Tiruchirappalli city
88. Effect of built environment on vehicle ownership and mode choice
89. Improving performance of highway projects by integrating lean practices
90. Development of crash modification factors for rural highways

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Development of a Remote Sensing Image Interpretation Cell for Rural and Urban Planning	MHRD, Government of India	1998	2000	Completed
Modernisation of Transportation Engineering Laboratory through Plan Fund	MHRD, Government of India	1999	2000	Completed
Household Survey to Assess Rural Transport Infrastructure, Tamilnadu State	IIM, Bangalore	2001	2001	Completed
Remote Sensing	MHRD,	2002	2004	Completed

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Application in Interpretation and Monitoring of Ambient Air Quality	Government of India			
GIS-GPS Based Monitoring of Public Transport Vehicles	MHRD, Government of India	2003	2005	Completed
Rural Road Traffic Volume Study in Tamilnadu	NRRDA, Government of India	03.04.2006	02.04.2007	Completed
Rural Road Pavement Performance Study(RRPPS)	NRRDA, Government of India	01.06.2006	31.06.2010	Completed
Coir Geotextiles Reinforced Low Volume Rural Road Pavement Performance Studies in Tamilnadu and Puducherry	Coir Board, Ministry of MSME, Government of India	08.04.2008	08.04.2012	Completed
Preparation of State of the Art Report on Facilities for Pedestrians/Physically Challenged Persons/Passengers	Ministry of Road Transport and Highways, Government of India	01.12.2011	30.05.2012	Completed
Preparation of State of the Art Report on Road Safety with Emphasis on Non-Motorised Traffic	Ministry of Road Transport and Highways, Government of India	01.12.2011	30.05.2012	Completed
Pavement Evaluation Studies on the Performance Enhancer RBI Grade 81	M/S. Legend Surface Developers Pvt. Ltd	23.06.2009		On-going
Urban Pavement Maintenance Management Systems (UPMMS)	Ministry of Urban Development and IIT, Madras, Chennai	29.11.2010	29.11.2012	Completed
Urban Speed	Ministry of	29.11.2010	29.11.2012	Completed

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Management using ITS	Urban Development and IIT, Madras			
Pavement Performance Studies on Coir Geotextiles Reinforced Rural Roads in Tamilnadu	Coir Board, Ministry of MSME, Government of India.	01.04.2011	31.03.2017	On-going
Centre of Excellence in Transportation Engineering	MHRD, Government of India	May 2013	March 2020	On-going

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Mrs. G. Niranjana	Study on the Effect of Fibre Reinforcement in Rigid Pavements	Supervisor	2012
Mrs. P. Selvi	Study on Engineering Properties of Sub-grade Soil in Coastal Zones of Tamilnadu	Supervisor	2013
Mrs. V. Sunitha	Decision Support System for Maintenance Management of Low Volume Rural Roads	Co-Supervisor	2013

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

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
01.12.1990 - 03.12.1990	Second National Conference on Transportation Systems Studies: Analysis and Policy (NCOTSS-90)	National	Participant	Association for Transport Development in India	I.I.T., Delhi
07.12.1992 - 09.12.1992	International AMSE Conference on Signals, Data and	International	Participant	Association for the Advancement of Modeling and	Calcutta

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	Systems			Simulation Techniques in Enterprises	
12.02.1993 - 13.02.1993	National Seminar on Urban Transportation	National	Participant	Indian National Academy of Engineering	Central Road Research Institute, New Delhi
18.03.1993	Seminar on Transportation Infrastructure - Kerala 2001	Local	Participant	Transportation Engineering Division, College of Engineering, Trivandrum	College of Engineering, Trivandrum
11.12.1993 - 12.12.1993	Third National Conference on Transportation Systems Studies: Analysis and Policy (NCOTSS-90)	National	Participant	Association for Transport Development in India (ATDI)	Vishakhapatnam
27.01.1994 - 29.01.1994	Sixth Kerala Science Congress	Local	Participant	State Committee of Science, Technology and Environment, Kerala	Trivandrum
27.01.1995 - 29.01.1995	Seventh Kerala Science Congress	Local	Participant	State Committee on Science, Technology and Environment, Kerala	Palakkad
10.03.1995 - 11.03.1995	National Seminar on Emerging Trends in Highway Engineering, Centre for Transportation Engineering	National	Participant	Centre for Transportation Engineering, Bangalore University	Bangalore University, Bangalore
25.11.1996 - 29.11.1996	International Symposium on Infrastructure of the Future	Inter-national	Participant	Association of Consulting Civil Engineer	India
15.12.1996 - 16.12.1996	Second National Convention on Vastuvidya and Vastuvidyapratisthanam	National	Participant	College of Engineering, Trissur	College of Engineering, Trissur
23.08.1997- 25.08.1997	National Seminar on Trends and Techniques in Transportation	National	Participant	Centre for Transportation Engineering, Regional	Regional Engineering College, Warangal

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				Engineering College, Warangal	
March 10-11, 2000	National Conference on Road Infrastructure Management (RIM) in the New Millennium	National	Participant	Bangalore University	Bangalore University, Bangalore
15-16 March 2000	Tenth User Interaction Workshop at NRSA	Local	Participant		Hyderabad
August 2000	Regional Workshop on Remote Sensing, Institute of Remote Sensing	Local	Participant	Anna University, Chennai	Anna University, Chennai
November 16 & 17, 2000	National Seminar on Geoinformatics	National	Participant	PSG Tech	PSG Tech, Coimbatore
19-21 December 2001	National Seminar on Road Accidents Causes and Preventive Measures	National	Participant		
11 January, 2002	Indian Roads Congress 62 nd Annual Session	National	Participant	Indian Road Congress	Kochi (Cochin)
1 February, 2003	Seminar on Recent Developments in Design of Hydraulic Machines	Local	Participant	Shri Angalamman College of Engineering and Technology, Tiruchirappalli	Shri Angalamman College of Engineering and Technology, Tiruchirappalli
10-11 February 2003	National Seminar on Urban Environmental Management (NSUEM – 2003)	National	Participant	Periyar Maniammai College of Technology for Women, Thanjavur	Periyar Maniammai College of Technology for Women, Thanjavur
15-17 March 2003	International Conference on Sustainable Development and Management of Natural Resources	Inter-national	Participant	Holy Cross College, Tiruchirappalli	Holy Cross College, Tiruchirappalli
5-7 June 2003	National Conference on Urban Transport	National	Participant	K.L.E. Society's College of Engg. & Tech.,	K.L.E. Society's College of Engg. & Tech.,

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	and the Environment			Belgaum	Belgaum
5 July, 2003	National Conference on Recent Trends in Flow Measuring Techniques	National	Participant	Shri Angalamman College of Engineering and Technology, Tiruchirappalli	Shri Angalamman College of Engineering and Technology, Tiruchirappalli
22-23 August, 2003	National Seminar on Sustainable Habitat	National	Participant	T.K.M. College of Engineering, Kollam, Kerala	T.K.M. College of Engineering, Kollam, Kerala
12-13 February 2005	Advances in Road Transport (ART-2005)	National	Participant	National Institute of Technology, Rourkela, Orissa	National Institute of Technology, Rourkela, Orissa
24-25 February 2005	Prithvi 2005, Global ECO Meet, Swadeshi Science Movement	Inter-national	Participant	Trivandrum, Kerala	Trivandrum, Kerala
19 th March 2005	National Conference on Applications of Information and Communication Technologies in Urban Infrastructure Planning and Management	National	Participant	Jaya Engineering College, Thiruninravur, Tamil Nadu	Jaya Engineering College, Thiruninravur, Tamil Nadu
21 – 22, November 2006	National conference on GIS, GPS and RS Applications in Transportation Planning and Management	National	Participant	St. Peter's College of Engineering, Chennai	St. Peter's College of Engineering, Chennai
22-24, May 2007	National Conference and Exposition of Rural Roads	National	Participant	National Rural Roads Agency	New Delhi
November 19-22, 2007	Indian Road Congress (68 th Annual Session)	National	Participant	Indian Road Congress	Jaipur (Rajasthan)
27 th May 2008	National Seminar on "Application of Coir Geotextiles on Roads"	National	Participant	Coir Board and Geotechnical Engineering Division, Dept. of Civil Engineering, College of	College of Engineering Trivandrum

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				Engineering Trivandrum	
December 3-6, 2008	International Conference on “Transportation Planning and Implementation Methodologies for Developing Countries”, TPMDC-2008	Inter-national	Participant	Indian Institute of Technology Bombay	Indian Institute of Technology Bombay
December 13-16, 2008	Indian Road Congress (69 th Annual Session)	National	Participant	Indian Road Congress	Kolkata (West Bengal)
28 – 29 April 2009	National Workshop on Asset Management in Rural Roads – Issues and Challenges	National	Participant	Dr. MCR – HRD State Training Institute, Jubille Hills, Hyderabad	Dr. MCR – HRD State Training Institute, Jubille Hills, Hyderabad
21-23 January 2010	PIARC – International Seminar on Sustainable Maintenance of Rural Roads	Inter-national	Participant	National Academy of Construction, Hyderabad	National Academy of Construction, Hyderabad
10-11 March 2010	Trends and Advances in Transportation Engineering(TRE AT-2010)	National	Participant		Bangalore
13 th October 2010	National Workshop on Sustainable Concrete Pavements – Practices, Challenges and Directions	National	Participant	IIT Madras	IIT Madras
7 th February, 2013	One day workshop on Alternate Technologies for Road Construction	Local	Participant	Rural Development and Panchayat Raj Department, Govt. of Tamilnadu	
7-11 th January, 2013	Indian Roads Congress – 73 rd Annual Session	National	Participant	Indian Road Congress	Coimbatore
23 rd and 24 th	International	Inter-	Participant		Hong Kong,

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November 2015	conference on Soft Computing and Machine Intelligence (ISCFI 2015)	national				China
11 th - 14 th December 2015	International Conference on Structural Engineering and Construction Management (ICSECM)	Inter-national	Participant			
17-20 December 2016	3 rd Conference of Transportation Research Group of India (CTRG)	National	Participant			Kolkata
8 th – 11 th November 2016	9 th Urban Mobility India Conference & Expo 2016, Planning Mobility for City's Sustainability	National	Participant			Ahmedabad
24-25 October, 2016	DST – IITM Dissemination Workshop on Modified Binders	National	Participant	IIT Madras		IIT Madras
24-25 November 2016	3 rd Conference on Transportation Systems Engineering and Management-CTSEM-2016	National	Participant	Department of Civil Engineering, BMS College of Engineering, Bangalore		BMS College of Engineering, Bangalore
20-21 February 2017	Dissemination Workshop on Indo-Highway Capacity Manual (INDO-HCM)	National	Participant	CSIR – Central Road Research Institute (CRRI)		New Delhi
March 11, 2017	One Day Workshop on Urban Transport Management (UTM)	Local	Participant	Association of Bangalore University Highway Engineering Alumni		Bangalore

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

Title of Activity	Level	of	Date (s)	Role	Venue
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	Event (International/ National/ Local)			
AICTE - ISTE Winter School on Advanced Computer Applications in Transportation Engineering (ACATE) - Two weeks short term course for Engineering Faculty and Practicing Engineers	National			
Short-term course on Modern Survey Equipments – Five days course for PWD Engineers		7 – 11, January 2002		
Short-term course on Advanced Surveying Techniques - Five days course for PWD Engineers		18 – 22 January 2002		
PMGSY Training Programme for Assistant Engineers of Rural Development Department		17-19 September 2003, 20-25 September 2004, 4-9 October 2004, 25-30 October 2004 and 1-6 November 2004		
Road Safety – Training of Users for Dissemination of Road Safety Manual – users Workshop (UW5)		17-19 October 2005		
Road Safety – Training of Users for Dissemination of Road Safety Manual – users Workshop (UW6)		20-22 October 2005		
TEQIP sponsored Short Term Course on Design, Construction and Maintenance of Roads		October 2007		
NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department		18-23, May 2009		
NRRDA sponsored three-		23-25, June 2009		

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day Training Programme on PMGSY for the AEEs of the Rural Development Department				
NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department		13-18, July 2009		
Continuing Education Programmes to the Engineers of the Tamilnadu Highways Department on Road Safety Audit		Villupuram (18-19 March 2010), Trichy (22-23 April 2010), Salem (6-7 May 2010), Madurai (31.05.2010-1.6.2010), Tirunelveli (3-4 June 2010) and Coimbatore (21-22 July 2010)		
PMGSY Training programme for State Quality Monitors		May 2013		
Coir Board Sponsored Training Programme on Technological Initiatives under PMGSY		7.10.2013		
Workshop on Urban Pavement Maintenance Management Systems (UPMMS) to Corporation Engineers		April 16 th 2015		
2 nd Conference on Transportation Systems Engineering and Management (CTSEM)		1-2 May, 2015		
Short Term Programme on Recent Trends In Transportation Engineering		July 11-16, 2016		
Three day Workshop on Traffic Simulation Tools		December 01.12.2016 – 03.12. 2016		

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Faculty Development programme on Glass in Buildings		05.12.2016 09.12.2016	-		
Three day Short term Training programme on Recent trends in Pavement Engineering		December 12.12.2016– 14.12.2016			
Three day Workshop on Binder Rheology		December 15.12.2017– 17.12.2016			
One day Workshop on Sustainability in Road Construction		December 17.12.2016			

18. Invited Talks delivered

Topic	Date	Inviting Organization
Design of Signal Controlled intersections	20-22, November 1996	R.E.C., Calicut
Development of Surface Transportation in India	December 1996	Institution of Engineers, Tiruchirappalli Chapter
Electro Magnetic Radiation	19-30 May 1997	Regional Engineering College, Calicut
VastuSastra for Industrial Structures	1 – 13 December 1997	R.E.C., Tiruchirappalli
Computer Applications in Rural Development	24.06.1999 to 26.06.1999	State Institute of Rural Development, Maramalainagar, Chennai
RAPID training program for staff of DRDA	19.08.1999	State Institute of Rural Development, Maramalainagar, Chennai
Indian Remote Sensing	3.09.1999	PeriyarManiammai College of Technology for Women, Vallam
Remote Sensing and its Applications	2.05.2000	Institution of Engineers, Tiruchirappalli Chapter
Indian Remote Sensing	August 2000	PeriyarManiammai College of Technology for Women, Vallam
Remote Sensing and its Applications	September 2000	Institution of Engineers, Tiruchirappalli Chapter
Indo-Over Seas Alliance for Business Development meeting	20 th March 2001	
Test on Aggregates, Short term course on Quality control and Testing in Concrete construction	March 4-8, 2002	R.E.C., Tiruchirappalli
Test on Aggregates, Short term course on Quality control and Quality Assurance in Concrete Constructions	13-24 May 2002	R.E.C., Tiruchirappalli

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Sustainable Urban Transport Systems, Short term course on Sustainable Urban Habitat	November 03-15, 2003	ThangalKunjuMusaliar College of Engineering, Quilon
Applications of Remote Sensing and GIS, Short term training programme on Industrial Safety and Environmental Engineering	March 24, 2004	AnjalaiAmmalMahalingam Engg. College, Thiruvaur
Applications of GIS & RS in Engineering with Case Studies, Short term training programme on Engineering Applications of GIS, GPS & RS	March 26, 2004	Shri Angalamman College of Engineering & Technology, Tiruchirappalli
Quality Control in Rural Road Construction and Maintenance in Tamil Nadu, PMGSY Training Programme	May 20, 2004	College of Engineering, Trivandrum
Integrated GIS as a Tool for Urban Land Use Monitoring and Planning, Advanced Training Programme on Applications of GIS, GPS and Remote Sensing in Urban Infrastructure Planning and Management	November 20, 2004	Jaya Engineering College, Chennai
Integrated GIS for Sustainable Development, Advanced Training Programme on Applications of GIS, GPS and Remote Sensing in Urban Infrastructure Planning and Management	November 20, 2004	Jaya Engineering College, Chennai
Remote Sensing - Indian Remote Sensing Satellites, Advanced Training Programme on Applications of GIS, GPS and Remote Sensing in Urban Infrastructure Planning and Management	November 20, 2004	Jaya Engineering College, Chennai
Applications of Remote Sensing, Short term training Programme, Modern Trends in Surveying	November 30, 2004	Periyar Centenary Polytechnic College, Thanjavur
GPS and its applications, Short term Training programme, Modern Trends in Surveying	November 30, 2004	Periyar Centenary Polytechnic College, Thanjavur
Remote Sensing and GIS, Short term training programme on Failure of Structures	November 29, 2004	Shanmuga Polytechnic College, Thanjavur
ITS – A Sustainable Transportation System	December 22, 2004	PeriyarManiammai College of technology for Women, Thanjavur
Application of Integrated GIS in Watershed Management	January 5, 2005	Periyermaniammai College of Technology for women, Vallam, Thanjavur
Remote Sensing and GPS	July 20, 2005	Periyermaniammai College of

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Applications		Technology for women, Vallam, Thanjavur
Aggregate Characterization and Properties of Bitumen - Field Tests – Acceptance criteria, Training Programme on Quality Control	August 10, 2006	College of Engineering, Trivandrum
Remote Sensing for Transportation and Land Use Planning, Key note address	November 20, 2006	National Conference on GIS, GPS and RS Applications in Transportation Planning and Management
Importance of Geo-Technology in the Safety of Airfield Pavements, Aviation Safety week 2006	30 th November 2006	Airports Authority of India, Tiruchirappalli Airport
Tests on Soils, Workshop on Testing of Construction Materials (Under TEQIP Community Service)	27 th February 2007	National Institute of Technology, Tiruchirappalli
Application of GIS in Transportation Planning Advanced Technologies for Surveying, AICTE Staff Training Programme	9 th March 2007	Muthayammal Polytechnic College, Rasipuram
GIS and Remote Sensing Applications in Engineering Sciences	25 th May 2007	Government College of Technology, Coimbatore
GIS and GPS Applications in Transportation Engineering, GIS and GPS Application in Civil Engineering	4 th May 2008	Oxford Engineering College, Trichy
Navigation System and Basics of GPS, Types of GPS – Static, Kinetic, Advanced Training Programme on Application of Geomatics in Urban Transportation Planning and Management	13 th October to 1 st November 2008	St. Peter's University, Chennai
PMGSY Guidelines, Training Programme on Planning, Design, Construction, Supervision & Quality Control of Rural Roads, for Executive Engineers	2 nd to 3 rd April 2009	SIRD, Chennai
Design of Flexible and Rigid Pavements, Training Programme on Planning, Design, Construction, Supervision & Quality Control of Rural Roads for Executive Engineers	2 nd to 3 rd April 2009	SIRD, Chennai
Mode Choice Analysis, Planning, Design & Evaluation of Urban Transportation Systems	31 st May – 11 th June 2010	National Institute of Technology, Calicut
Quality Control Mechanism in construction, Training Programme on Planning and Implementation of Pradhan Mantri Gram Sadak Yojana (PMGSY) to Executive Engineers	6 th July, 2011	State Institute of Rural Development, Kerala

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and Asst. Executive Engineers		
Quality Control in Construction and Maintenance of PMGSY Roads, Training Programme on Convergence of Pradhan Mantri Gram SadakYojana (PMGSY) with other RD Programmes	1 st November 2011	State Institute of Rural Development, Tamilnadu
GIS in PMGSY, Training Programme on Convergence of Pradhan Mantri Gram SadakYojana (PMGSY) with other RD Programmes	1 st November 2011	State Institute of Rural Development, Tamilnadu
Urban Planning, M.Tech in Transportation Engineering	8-9 March, 2012	Rajiv Gandhi Institute of Technology, Kottayam
Quality Control, Training Programme on Quality Assurance and Quality Control in Rural Roads, Centre for Transportation Research	6 th September, 2013	National Institute of Technology, Calicut
Pavement Recycling, One Day Workshop on Modern Bituminous Mix Technologies	6 th September, 2013	National Institute of Technology, Calicut
Intelligent Transportation Systems for Improved Road Safety	19-20, July 2013	The Institution of Engineers (India), Chennai
Trip Assignment, Short term Programme on Urban Transport Systems Planning	27 th November, 2013	National Institute of Technology, Calicut
Land Use Transport Interaction, Short term Programme on Urban Transport Systems Planning	27 th November, 2013	National Institute of Technology, Calicut
Transportation Planning, Key note address at TYRES 2013	28-29 March, 2014	National Institute of Technology, Warangal
Sustainable Urban Transportation Systems	24 th July, 2014	CARE Engineering College, Trichy
Design of Roundabouts & Rotaries, Short Term Programme on Road Traffic Engineering – Principles and Applications	December 3, 2014	National Institute of Technology, Calicut
Pedestrian and Bicycle facilities, Short Term Programme on Road Traffic Engineering – Principles and Applications	December 4, 2014	National Institute of Technology, Calicut
Design of Bus Bays, Lighting on Roads, Short Term Programme on Road Traffic Engineering – Principles and Applications	December 4, 2014	National Institute of Technology, Calicut
Pavement Construction and Maintenance, Training Programme on Design, Construction and Maintenance of Roads	9 th January, 2015	College of Engineering, Trivandrum
ITS applications for Indian Road Condition, National Conference on	20 th February, 2015	Bishop Jerome Institute, Kollam

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Innovative Materials and Technologies in Civil Engineering NATCON 2015		
Transportation Engineering – Way forward, Workshop on Advancements in Civil Engineering	18 th March 2015	Saveetha School of Engineering, Chennai
Performance Monitoring, Workshop on Alternative Materials and New Technologies for Rural Road Construction	April 10 - 11, 2015	National Institute of Technology, Calicut
Performance Monitoring, Workshop on Alternative Materials and New Technologies for Rural Road Construction	July 20 - 21, 2015	National Institute of Technology, Calicut
Lessons/observations on use of low-cost material and technology in rural roads in Tamilnadu, Knowledge Sharing Workshop on use of Green and low-cost materials and Technology in Rural Roads in India	September 22 – 23, 2015	The World Bank, NRRDA and Korea Growth Partnership
Inaugural address, Faculty Development Programme on Application of GIS and Remote Sensing	24 th April, 2015	University College of Engineering, BIT Campus, Anna University, Tiruchirappalli
GIS and Transportation Engineering, Faculty Development Programme on Application of GIS and Remote Sensing	24 th April, 2015	University College of Engineering, BIT Campus, Anna University, Tiruchirappalli
Road Safety – Principles and Checklist, Training Programme on Road Safety Engineering for Engineers of PWP&IWTD	19 th August, 2015	College of Engineering, Bengaluru
Road Safety Furniture and Specifications, Training Programme on Road Safety Engineering for Engineers of PWP&IWTD	19 th August, 2015	RV College of Engineering, Bengaluru
Road Safety – Principles and Checklist, Training Programme on Road Safety Engineering for Engineers of PWP&IWTD	27 th August, 2015	RV College of Engineering, Bengaluru
Road Safety Furniture and Specifications, Training Programme on Road Safety Engineering for Engineers of PWP&IWTD	27 th August, 2015	RV College of Engineering, Bengaluru
Composite Pavements, Short Term Training Programme on Recent innovations in Transportation Engineering	8 th October, 2015	Government Engineering Collage, Thrissur
Road Safety – Principles and Checklist, Training Programme on Road Safety Engineering for	5 th November, 2015	RV College of Engineering, Bengaluru

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Engineers of PWP&IWTD		
Road Safety Furniture and Specifications, Training Programme on Road Safety Engineering for Engineers of PWP&IWTD	5 th November, 2015	RV College of Engineering, Bengaluru
Road Safety Audit, Two Weeks Training Programme on Design, Construction, Maintenance and Management of Urban Roads	17 th February, 2016	RV College of Engineering, Bengaluru
Design of Traffic Signals, Two Weeks Training Programme on Design, Construction, Maintenance and Management of Urban Roads	17 th February, 2016	RV College of Engineering, Bengaluru
Innovative Techniques on Asphalt Pavement, one day workshop	23rd June 2016	PSNA College of Engineering and Technology, Dindigul
Traffic and Transportation Engineering – Research Needs in India	23 rd September, 2016	Rajiv Gandhi Institute of Technology, Kottayam
Challenges Transportation Sector – Role of Academia, AICTE Sponsored Short Term Course (QIP) on Recalibrating the Industry – Institute Space	06.03.2017	TKM College of Engineering, Kollam

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	ISTE	LM 5904
Life Member	Institute of Urban Transport	M-481
Ordinary Member	Institution of Engineers	M125439-6
Life member	IRC	LM-28387
Life Member	Transportation Research Group	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore	24.11.2007 to 29.12.2007	TEQIP Training Programme at NUS
Netherlands	13.05.2013 to 19.05.2013	Geospatial World Forum
Hongkong	20.11.2015 to 25.11.2015	International Conference on Soft Computing and Machine Intelligence (ISCM-2015)
Srilanka	11 th – 14 th December 2015	ICSECM 2015, 6 th International Conference on Structural Engineering & Construction Management
Republic of Korea	17 th – 22 nd July 2017	International conference on Maintenance and Rehabilitation of Constructed Infrastructure Facilities (MAIREINFRA 2017)

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21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
N. Venkat Kumar, Samson Mathew and G. Swaminathan	A Preliminary Investigation for Groundwater Quality and Health Effects – A Case Study	Asian Journal of Water, Environment and Pollution	5(4)	99-107	2007	
T. Chandramohan, A. N. Balchand and Samson Mathew	Discharge and Sediment Transport in the Tropical Rivers of Kerala, India and their Controlling Factors	Asian Journal of Water, Environment and Pollution	6(4)	1-9	2008	
N. Venkat Kumar, Samson Mathew and G. Swaminathan	Fuzzy Information Processing for Assessment of Groundwater Quality	International Journal of Soft Computing	4(1)	1-9	2009	
Natarajan Venkat Kumar, Samson Mathew , GanapathiramSwaminathan	Analysis of Groundwater for Potability from Tiruchirappalli City Using Backpropagation ANN Model and GIS	Journal of Environmental Protection	1	136-142	2010	
Natarajan Venkat Kumar, Samson Mathew , GanapathiramSwaminathan	A Hybrid Approach towards the Assessment of Groundwater Quality for Potability : A Fuzzy Logic	Journal of Geographic Information System	2	152-162	2010	

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	and GIS Based Case Study of Tiruchirappalli City, India					
Natarajan Venkat Kumar, Samson Mathew , GanapathiramSwaminathan	Multifactorial Fuzzy Approach for Assessment of Groundwater Quality	Journal of Water Resource and Protection	2	597-608	2010	
G. Niranjana, Samson Mathew and P. Jayabalan	Structural Strength Enhancement of Rigid Pavement Using Natural Fibre Reinforcement	International Journal of Applied Engineering Research	5(11)	2021 - 2030	2010	
Natarajan Venkat Kumar, Samson Mathew and G. Swaminathan	A New Hybrid Method for Assessment of Subsurface Water for Potability-A Case Study of Tiruchirappalli City, S. India	Singapore Journal of Scientific Research		1-10	2010	
M. Samson , G. Swaminathan, N. Venkat Kumar	Assessing Groundwater Quality for Potability using a Fuzzy Logic and GIS – A Case Study of Tiruchirappalli City – India	Computer Modelling and New Technologies	14(2)	58-68	2010	
P. Selvi, Samson Mathew and V. S. Velmurugan	A Study on Effect of Rice Husk Ash and Cement on the Engineering Properties of Nagapattinam Subgrade Soils, India	International Journal of Engineering Research and Technology	3(3)	829-845	2010	
P. Selvi, Samson Mathew and K. B. Velliangiri	Kenlayer Analysis of Stress Distribution of Fly Ash and	International Journal of Engineering Research and Technology	3(3)	847-861	2010	

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	Cement Stabilized Low Volume Roads					
Sathees Kumar, Nisha Radhakrishnan, Samson Mathew	Land Use Land Cover Change Detection and Forecasting for Tiruchirappalli City Using Remote Sensing and GIS	Journal of Remote Sensing & GIS	3(1)	21-32	2010	
Sathees Kumar, D.Thirumalaivasan, Nisha Radhakrishnan, Samson Mathew	Groundwater Vulnerability Assessment Using SINTACS Model	Geomatics, Natural Hazards and Risk		1-16	2012	
Vidya, R., S. Moses Santhakumar and Samson Mathew	Simulation Study of Construction Work Zones - A Case Study	Recent Trends in Civil Engineering & Technology	2(12)		2012	
Vidya, R., S. Moses Santhakumar and Samson Mathew	Impact of Work Zones on Speed Variation During Widening of the Highway - A Case Study	International Journal of Engineering Science and Technology	4(2)	546-554	2012	
V. Sunitha, A. Veeraragavan, Karthik K. Srinivasan, and Samson Mathew	Cluster-Based Pavement Deterioration Models for Low-Volume Rural Roads	ISRN Civil Engineering			2012	
Sathees Kumar, Nisha Radhakrishnan, Samson Mathew	Land Use Change Modeling Using a Markov Model and Remote Sensing	Geomatics, Natural Hazard and Risk		1-16	2013	
V. Sunitha, A. Veeraragavan, Karthik K. Srinivasan, and Samson Mathew	Application of Factor Analysis in Maintenance Management of Low	International Journal of Pavement Research and Technology	6(2)	130-135	2013	

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	Volume Roads					
Remya K. P., Samson Mathew	OD Matrix Estimation from Link Counts Using Artificial Neural Network	International Journal of Scientific & Engineering Research	4(5)	293-296	2013	
Vidya, R., Dr. S. Moses Santhakumar and Samson Mathew	Estimation of IRI from PCI in Construction Work Zones	ACEE Int. J. on Civil and Environmental Engineering	2(1)		2013	
S. Manipriya, C. Mala and Samson Mathew	Performance Analysis of Spatial Colour Information for Object Detection Using Background Subtraction	IERI Procedia, Elsevier			2014	
R.T Arjun Siva Rathan, V. Sunitha and Samson Mathew	Experimental Investigation on Partial Replacement of fine Aggregate with Waste Granite Fines in Concrete Paving Block	International Journal of Earth Sciences and Engineering	7(5)	1099-1104	2014	
G. Nanthapriya, Samson Mathew , G. Subbaiyan	Mode Choice Analysis of Senior Citizens- A case Study of Tiruchirappalli City	International Journal of Earth Sciences and Engineering	7(5)	1162-1168	2014	
Sathees Kumar, Nisha Radhakrishnan, Samson Mathew	Application of Geospatial Techniques to Land Suitability Analysis	International Journal of Sustainable Building Technology and Urban Development			2015	
D. Latha, V. Sunitha, Samson Mathew ,	Experimental Investigation to find Transition Temperature	International Journal of Civil, Environmental , Structural,	9(12)		2015	

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	of VG-30 Binder	Construction and Architectural Engineering				
Nantha Priya G., Samson Mathew and G. Subbaiyan	Mode choice analysis of senior citizens – a case study of Tiruchirappalli city	International Journal for Earth Science and Engineering	7	1162-1168	2014	
Nagaraj B. N. and Samson Mathew	Formulation of Travel Demand Estimation Problem in a Goal Programming Framework	Journal of Transport Management	18(3)	165-169	1994	
Samson Mathew and Bh. Annapurna	Integrated GIS as a Tool for Urban Transportation Planning	Urban Transport Journal	2(1)	62-73	2001	
T. Chandramohan, A. N. Balchand and Samson Mathew	Field Verification of Runoff Curve Number Estimated From Rainfall – Runoff Data	Hydrology Journal	28(1-2)	71-78	2005	
Samson Mathew , A. K. Raji, S. Malagi and V. Sunitha	Rural Connectivity based on ranking of villages – a Case study of Mandhya District of Karnataka	Journal of The Institute of Engineers	88	34-42	2007	
G. Niranjana, Samson Mathew and P. Jayabalan	Structural Strength Enhancement of Rigid Pavement using Scrap Steel Fibre Reinforcement	New Building Materials & Construction World	13(11)	206-215	2008	
Chandramohan T, Samson Mathew and Balchand A N	Development and Application of	The Icfai University Journal of Soil	1(1)	77-88	2008	

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	Unit Sediment Graph (USG) for Sediment Yield Modeling	and Water Sciences				
Samson Mathew , P. Selvi and K. B. Velliyangiri	A study on Engineering Properties of Cement Stabilised Seashore Soils	New Building Materials & Construction World	14(7)	156-167	2009	
A. K. Raji, Samson Mathew and P. Subha	Rural Connectivity Design Through Transportation Related Hierarchy of Habitations	Journal of Indian Highways		29-38	2010	
C Parathasarathy, KarthikKumaresan, ChitralkhaSumbrui, Sathees Kumar, Nisha Radhakrishnan and Samson Mathew	Land Use and Land Cover Assessment along Tiruchirappalli City Using Remote Sensing	The IUP Journal of Earth Sciences	5(1)	1-9	2011	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Nagaraj B. N., UshaK., P.S Mony, Samson Mathew	A Model of Dynamic Urban Structure Specification for Estimation of Temporal Travel Demand	National System Conference on Transportation Studies (NACOTS-90)	1-8		I.I.T., Delhi	1990
Nagaraj B. N., Samson Mathew	Estimation of Origin - Destination Matrices from Link Volume Counts	National Seminar on Urban Transportation	11-12		Indian National Academy of Engineering, New Delhi	1993

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Nagaraj B. N., Samson Mathew , Manju V. S.	Estimation of Origin – Destination Matrices Using Link Volume Counts by Multi - Objective Goal Programming Strategy	Third National Conference on Transportation Systems Studies Analysis and Policy (NCOTSS - 93)	10-30		Andhra University, Visakhapatnam	1993
T. S. Ambili, Samson Mathew and T. S. Venkataraman	Correlation Between CBR and Clegg Impact Value	National Seminar on Emerging Trends in Highway Engineering	25.1-25.5		Centre for Transportation Engineering, Bangalore University	1995
M. Suresh, Samson Mathew and K. A. Kuppusamy	A Study of the Correlation Between Rotation of Earth Around Sun and the Sleeping Time of Vastupurusha	Second National Convention on Vastuvidya				1996
Samson Mathew and C. V. Phani Kumar	Transport Development Plan for Kakinada City	National Seminar on Trends and Techniques in Transportation	87-91		R.E.C., Warangal	1997
Samson Mathew and BH. Annapurna	Integrated GIS as a Tool for Urban Land use Monitoring and Planning	National Conference on Geoinformatics			PSG College of Technology, Coimbatore	2000
Samson Mathew and Jaikokila	Safety Auditing using Accident Possibility Index	National seminar on Road Accidents Causes and Preventive Measures	32-41		Institute of Road and Transport Technology, Erode	2001
Samson Mathew and N. S. Kameswara Rao	Safe Highways through Accident Prevention and Helping Centres – An Innovative Approach	National seminar on Road Accidents Causes and Preventive Measures	51-60		Institute of Road and Transport Technology, Erode	2001

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Samson Mathew	Safe Highways Through Accident Prevention and Helping Centres – An Innovative Approach	62 nd Annual Session of the Indian Roads Congress			Cochin	2002
T. Nagaraju and Samson Mathew	Urban Road Network Evaluation Through Integrated Geographical Information System (IGIS)	National Conference on Geographic Information Systems & their application in Civil Engineering			Deccan College of Engineering and Technology, Dar us Salam, Hyderabad	2002
Samson Mathew, Mahesh L. Yeotkar	Sky Bus Metro – An Eco Friendly Solution for Urban Transport Problems	National Seminar on Urban Environmental Management (NSUEM – 2003)			PeriyarManiam mai College of Technology for Women, Thanjavur	2003
Samson Mathew and Anu P. Alex	Travel and Mode Choice Behaviour of Trip Makers – A Comparative Study Between Kerala and Tamilnadu	National Conference on Advances in Civil Engineering: Perspectives of Developing Countries	677-686		Harcourt Butler Technical Institute, Kanpur	2003
Samson Mathew and Ajilesh K. T.	TRADES – A Package for Travel Demand Estimation Using Link Volume Philosophy	National Conference on Advances in Civil Engineering: Perspectives of Developing Countries	655-668		Harcourt Butler Technical Institute, Kanpur	2003
Samson Mathew and SathishBabu T	A Study on Shoulder Width and Its Effect on Carriageway Effective Width	National Conference on Advances in Civil Engineering: Perspectives of Developing Countries	699-711		Harcourt Butler Technical Institute, Kanpur	2003

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Samson Mathew, P.Anand and S.Saraswathy	Quantification of Urban Accessibility Levels – A Case Study of Tiruchirappalli	National Conference on Urban Transport & Environment	39-391		K.L.E. Society's College of Engineering & Technology, Belgaum (Karnataka)	2003
Samson Mathew, Anil Kumar Muddalapuram and D.Srividya	Modal Integration for Hyderabad Urban Mass Transport System	National Conference on Urban Transport & The Environment	156-165		K.L.E. Society's College of Engineering & Technology, Belgaum (Karnataka)	2003
Samson Mathew, Ravishankar Ramachandran and Nitin Kumar	ITS – A Mobile Technology Based Vehicle Monitoring	National Conference on Urban Transport & The Environment	189-199		K.L.E. Society's College of Engineering & Technology, Belgaum (Karnataka)	2003
Samson Mathew and D. Srividya	Intelligent Transport Systems As an Emerging Trend for Urban Sustainable Development	National Seminar on Sustainable Habitat			T. K. M. College of Engineering, Kollam, Kerala	2003
Samson Mathew and R. Manjula	Integrated GIS for Groundwater Modelling and Sustainable Development	National Seminar on Sustainable Habitat			T. K. M. College of Engineering, Kollam, Kerala	2003
Samson Mathew and D. Srividya	Bicycles-A User-Friendlier, Energy-Efficient, Ecofriendly Mode of Transport	National Seminar on Sustainable Habitat			T. K. M. College of Engineering, Kollam, Kerala	2003
Samson Mathew, A. DurgaGiridhar and IttaSubramanyam	PDMS – A Flexible Pavement Design and Monitoring System	National Conference on Modern Cement Concrete and Bituminous Roads	152-160		College of Engineering, GITAM, Visakhapatnam	2003
Samson Mathew, K. Ahmed Asif and Suthakar C. J	A Simplified Method for Flexible Pavement Overlay	National Conference on Modern Cement Concrete and Bituminous Roads	161-171		College of Engineering, GITAM, Visakhapatnam	2003

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	Design					
Samson Mathew, S. Jayalakshmi and V. Durga Prasad	Low Cost Subgrade Stabilization of Problematic Soils for Rural Roads	National Conference on Modern Cement Concrete and Bituminous Roads	513-520		College of Engineering, GITAM, Visakhapatnam	2003
Samson Mathew, KanhaiyaCharan and Nandury. S. Kameswara Rao	Analysis of Accident Data - A Case Study of NH – 45	National Conference on Modern Cement Concrete and Bituminous Roads			College of Engineering, GITAM, Visakhapatnam	2003
Samson Mathew, Swaminathan G, Porselvan P and Venkat Kumar N.	GIS for Ground Water Quality and Health Management	National Seminar on GIS Development: Methodologies, Prospects and Applications			University of Madras, Chennai	2004
Samson Mathew, D. Srividya and V. Sunitha	Selection of Site for Vegetable Market in Tiruchirappalli Using Integrated GIS and User Optimization	National Conference on Applications of GIS and GPS in Civil Engineering	151-161		Jaya Engineering College, Thiruninravur	2004
R. Manjula and Samson Mathew	Identification of Artificial Recharge Zones Using Integrated GIS	National Symposium on Futuristic Steel Structures & Application of GIS in Water Resources and Environmental Engineering			Karunya Institute of Technology & Science, Coimbatore	2004
Samson Mathew, S. Anita, S. Saraswathy and R. Sundaresan	Remote Monitoring of Vehicle Using GPS	National Conference on Advances in Road Transportation (ART-2005)			National Institute of Technology, Rourkela, Orissa	2005
Samson Mathew, D Srividya, V Sunitha and R Sundaresan	User Optimised Vegetable Market Site Selection Using Integrated GIS	National Conference on Advances in Road Transportation (ART-2005)			National Institute of Technology, Rourkela, Orissa	2005

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Samson Mathew, R Jayashankar, B Jeyanthi and D Srividya	GIS Based Bridge Management System	National Conference on Advances in Road Transportation (ART-2005)			National Institute of Technology, Rourkela, Orissa	2005
Samson Mathew and D Srividya	GIS Based Pavement Management System for Tamil Nadu	National Conference on Advances in Road Transportation (ART-2005)			National Institute of Technology, Rourkela, Orissa	2005
Samson Mathew, S. Moses Santhakumar, R. Sundaresan and P. Suresh Babu	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	97-105		Jaya Engineering College, Thiruninravur, Tamil Nadu	2005
Samson Mathew, S. Anita, S. Saraswathy and R. Sundaresan	Remote Monitoring of Vehicle Using GPS	National Conference on Applications of Information and Communication Technologies in Urban Infrastructure Planning and Management	89-96		Jaya Engineering College, Thiruninravur, Tamil Nadu	2005
N. Venkat Kumar, Samson Mathew and G. Swaminathan	Monitoring of Ground Water Quality Using GIS	National Seminar on Innovative Techniques for Sustainable Development of Water Resources (ISDWR – 2005)			Annamalai University, Annamalainagar	2005
Samson Mathew, G. Swaminathan and N. Venkat Kumar	GIS Integration for Ground Water Quality and Health Effects in Arcot Area	National Conference on Geotechnics in Environmental Protection			Motilal Nehru National Institute of Technology, Allahabad	2005
G. Niranjana, Samson Mathew and P. Jayabalan	A Study on the Effect of Fiber Reinforcement in Concrete Pavements	National Conference on Innovative Technologies in Civil Engineering			Coimbatore Institute of Technology, Coimbatore	2006

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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			St. Peter's College of Engineering, Chennai	2006
Samson Mathew, D. Srividya, and Pooja S. Nair	Integrated GIS as a Tool for Land Use Planning	National conference on GIS, GPS and RS Applications in Transportation Planning and Management			St. Peter's College of Engineering, Chennai	2006
Samson Mathew, S. Moses Santhakumar, S. Saraswathy and V. Palanikumar	Applications of GPS in Study of Highway Geometrics	National conference on GIS, GPS and RS Applications in Transportation Planning and Management			St. Peter's College of Engineering, Chennai	2006
Samson Mathew, S. Moses Santhakumar and A. Siddique	Pavement Management System for Rural Roads	National conference on GIS, GPS and RS Applications in Transportation Planning and Management			St. Peter's College of Engineering, Chennai	2006
Samson Mathew, V. Sunitha, V. M. Rajanandhini and R. Resmi	Integrated Transportation System for Tiruchirappalli City	National conference on GIS, GPS and RS Applications in Transportation Planning and Management			St. Peter's College of Engineering, Chennai	2006
Samson Mathew, V. Sunitha, R. Resmi and Pooja S. Nair	Commuter's Rating on Bus Transport System in Tiruchirappalli City	National conference Focussing on Advances in Civil Engineering			ThangalKunjuM usaliar College of Engineering, Kollam, Kerala	2007
Samson Mathew, V. Palani Kumar, IshanBajpai, ShubhrataSingha and Somnathsen	Emergency Vehicle Assistance System Using GIS and GPS	National conference Focussing on Advances in Civil Engineering			ThangalKunjuM usaliar College of Engineering, Kollam, Kerala	2007
Samson Mathew, A. K. Raji, V. Sunitha	Rural Road Network Planning- A	National conference Focussing on			ThangalKunjuM usaliar College of Engineering,	2007

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and Swathi N	Case Study of Karimnagar District in Andhra Pradesh	Advances in Civil Engineering			Kollam, Kerala	
Samson Mathew, R. Jayasankar and Shaik Abdul Rasheed	Economic Evaluation of Grade Separation at a Signalized Intersection	National Seminar on Roads 2007			The Institution of Engineers, Belgaum	2007
Samson Mathew and L. Balamurali Krishna	Studies on Polymer Modified Bituminous Mixes	National Seminar on Roads 2007			The Institution of Engineers, Belgaum	2007
Samson Mathew, P.Selvi and V.S.Velmurugan	Influence of Rice Husk Ash and Cement on Engineering Properties of Clay Soils	National Seminar on Roads 2007			The Institute of Engineering, Belgaum	2007
Samson Mathew, P.Selvi and V.S.Velmurugan	Influence of Fly Ash on Engineering Properties of Nagapattinam Coastal Subgrade Soil	National Seminar on Fly Ash Utilization Avenues in Civil Engineering			K.L.E. Society's College of Engineering and Technology, Belgaum	2007
Samson Mathew, V.Palani Kumar and S.Saraswathy	Study of Highway Geometrics Using GPS	National Conference on Earthquake and Transportation Engineering			Sona College of Technology, Salem	2007
Samson Mathew, S.MosesSanthakumar, V. Sunitha and J. Sheeba	Travel Characteristics of Tamil Nadu Rural Population	National Conference on Earthquake and Transportation Engineering			Sona College of Technology, Salem	2007
Samson Mathew, P.Selvi and K.B.Velliangiri	A Study on Effects of Fly Ash and Cement on Engineering Properties of SM-SC Soils	National Conference on Recent Advances in Civil Engineering			RVS College of Engineering & Technology Dindigul	2007

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Samson Mathew, G.Niranjana and P.Jayabalan	Scrap Steel Fibre Reinforcement for Strength Enhancement of Rigid Pavement	National conference, Workshop and Exposition on Trends in Road Making Materials, Methods & Machines for Quality, Economy and Speed			All India Council for Technical Education, LNCT, Bhopal	2007
Samson Mathew, P.Selvi and V.S.Velmurugan	Study on Rice Husk Ash as Subgrade Stabilization Material	National conference, Workshop and Exposition on Trends in Road Making Materials, Methods & Machines for Quality, Economy and Speed			All India Council for Technical Education, LNCT, Bhopal	2007
Samson Mathew, S.Moses Santhakumar and A.Ganesh Raghavan	GIS Based Analysis of PMGSY Road Network of Tamilnadu	National Conference on Application of GIS in Civil Engineering	173-191		School of Civil Engineering, Karunya University, Coimbatore	2008
Samson Mathew and Chinnu Anna Jacob	Estimation of Origin – Destination Matrix from Link Volume Counts Using Bi-Level Programming	National Conference on Recent Innovations in Technology			Rajiv Gandhi Institute of Technology, Kottayam	2009
Samson Mathew and N. Surekha	Activity Travel Pattern of a Residential Campus	National Conference on Recent Innovations in Technology			Rajiv Gandhi Institute of Technology, Kottayam	2009
Vidya R., S. Moses Santhakumar and Samson Mathew	Road Surface Image Segmentation, Texture, Analysis and Classification Using Image Processing	Sustainable Urban Transportation Planning Issues and Management Strategies (SUTRIMS 11)			Sardar Vallabhbhai National Institute of Technology, Surat	2011
	Forecasting Urban Sprawl and Traffic	Urban Mobility India Research Symposium			1. New Delhi	2011

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	Conditions in Tiruchirappalli City					
	Development of Park and Ride System in Tiruchirappalli City	1 st TRG Conference			Bangalore	2011
Sunitha V. and Samson Mathew	Urban Pavement Maintenance Management Systems (UPMMS)	National Conference on Urban Mobility – Challenges, Solutions and Prospects			IITM, Chennai	2012
Moses Santhakumar, Samson Mathew and Nisha Radhakrishnan	Urban Speed Management Using ITS	National Conference on Urban Mobility – Challenges, Solutions and Prospects			IITM, Chennai	2012
	Origin Destination Matrix using Bi-level Programming	India Geospatial Forum, Hyderabad			Internal Convention Centre, Hyderabad	2013
	Speed Detection and Management – ‘ITS’ application	India Geospatial Forum, Hyderabad			Internal Convention Centre, Hyderabad	2013
Subha Nair, Nisha Radhakrishnan and Samson Mathew	Trip Matrix Estimation From Traffic Counts Using Cub	International Conference on Recent Innovations in Civil Engineering			Karnataka	2013
SathyaPrabha R. and Samson Mathew	Evaluation of Operational Efficiency of Urban Road Network using Travel Time Reliability Measures	International Conference on Recent Innovations in Civil Engineering			Karnataka	2013
G. NanthaPriya, Samson Mathew and G. Subbaiyan	Mode Choice Analysis of Senior Citizens – A Case Study of	International Conference on Ingenious Technologies and Sustainable			Noorul Islam University, Kumaracoil, Kanyakumari District	2014

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	Tiruchirappalli City	Developments in Civil Engineering				
R.T Arjun Siva Rathan, V. Sunitha and Samson Mathew	Experimental Investigation on partial Replacement of fine Aggregate with Waste Granite Fines in Concrete Paving Block	International Conference on Ingenious Technologies and Sustainable Developments in Civil Engineering			Noorul Islam University, Kumaracoil, Kanyakumari District	2014
Sonali Snehan and Samson Mathew	Dynamic Travel Time Estimation of a Highway Using Macroscopic Model for Heterogeneous Traffic	Recent Advances in Traffic Engineering (RATE-2015)			SVNIT, Surat	2015
Sumetha R, Samson Mathew	Analyzing the demand for Public Transport through Behavioral Mode Choice Models for Work Trips in Tiruchirappalli City	12 th TPMDC				2016
G. Nanthapriya, G. Subbaiyan, Samson Mathew	Impact of mode choice in Estimating the social Travel Demand of Senior Citizens- A case study of Tiruchirappalli City	12 th TPMDC				2016
Bush B. Thomas, G. Nanthapriya, V. Sunitha, Samson Mathew	Mode Choice modelling of Commuter Trips in Tiruchirappalli City using MNL	12 th TPMDC				2016

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Nantha Priya G., Samson Mathew and Subbaiyan	An investigation on mode choice and trip length of senior citizens	4 th annual international conference on Architecture and Civil Engineering	232-241		Singapore	2016
Nantha Priya G., Samson Mathew and Subbaiyan	Household structure and travel pattern of senior citizens in leisure trips	4 th Conference on Transportation Research group of India				2017
Nantha Priya G., Samson Mathew and Subbaiyan	Travel behavior of senior citizens in an urban area – Tiruchirappalli city corporation	2 nd National conference on Transportation Systems Engineering and management				2015
Nantha Priya G., Samson Mathew and Subbaiyan	Understanding the travel pattern of senior citizens in an urban area using structural equation modeling	3 rd National conference on Transportation Systems Engineering and management			Bangalore	2016
Nantha Priya G., Samson Mathew and Subbaiyan	Accessibility aspects of hospital trips for the senior citizens in an urban area	4 th Conference on Transportation Systems Engineering and management				2017
D. Latha, V. Sunitha, Samson Mathew	Viscoelastic Continuum Damage Analysis for Binders using Dynamic Shear Rheometer	12 th TPMDC				2016
Cynthia Daniel, Saravanan S., and Samson Mathew	GIS based road connectivity evaluation using Graph Theory	CTRG 2017				2017

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(C) Books & Monographs

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