

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

Curriculum Vitae

Please attach your
recent
Photograph

in the form of
softcopy/hardcopy
(Optional)

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 PhD 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 working as **Professor**. He has successfully completed **seven 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. 80 lakhs**. Currently he is coordinating **eight sponsored projects** with total grant of **Rs. 472 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) program for Tamilnadu and Pondicherry.

He has guided 77 Post graduate project works in various fields such as Transportation Engineering, Land Use Planning, Traffic Engineering, Pavement Management, Remote Sensing and GIS applications. Three scholars had completed PhD and currently seven PhD scholars are working under his guidance. He has published 40 papers in International/National journals, 15 papers in International conferences and more than 90 papers in national level conferences. He is actively involved in Transportation related consultancy works also. He is also a life member of the professional bodies such as Indian Roads Congress, Indian Society for Technical Education, Institute of Urban Transport, Institution of Engineers and Transport Group of India. He also visited Singapore, Netherlands, Hong Kong and Srilanka.

1. Name: Dr. Samson Mathew
2. Designation: Professor
3. Office Address: Dept. of Civil Engineering, NIT
Tiruchirappalli, Tamilnadu – 620 015
4. Telephone (Direct) (Optional): 0431 – 2503160 (Office)
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5. Email (Primary): sams@nitt.edu Email (Secondary) :samsnitt@gmail.com
6. Field(s) of Specialization: Civil Engineering/Transportation
Engineering

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7. Employment Profile

Job Title	Employer	From	To
Engineer	Kakkad Hydro Electric Project, KSEB	June 1985	May 1986
Lecturer	Principal, Anjuman Engineering College, Bhatakal	November 1988	May 1989
Research Scholar	R.E.C., Calicut	June 1989	June 1994
Lecturer	R.E.C., Tiruchirappalli	September 1994	September 1998
Senior Lecturer	N.I.T., Tiruchirappalli	September 1998	September 2003
Assistant Professor	N.I.T., Tiruchirappalli	September 2003	September 2006
Associate Professor	N.I.T., Tiruchirappalli	September 2006	September 2010
Professor	N.I.T., Tiruchirappalli	September 2010	Present

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

Examination	Board / University	Year	Division/ Grade	Subjects
Doctor of Philosophy (PhD)	Calicut University	1996	-	Civil Engineering
Master of Technology (M. Tech)	Calicut University	1988	First Class	Traffic and Transportation Planning
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
Chief Warden	NIT Tiruchirappalli	11.09.2015	12.11.2015
Chief of Works	NIT Tiruchirappalli	09.11.2012	10.09.2015

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Convener of Hostels	NIT Tiruchirappalli	01.11.2010	09.11.2012
Associate Dean(P&D)	NIT Tiruchirappalli	23.07.2009	15.09.2010
Convener, Estate Works and Maintenance Committee, Institute Zone	NIT Tiruchirappalli	05.05.2008	
Convener, Quality Assurance Committee, Institute Zone	NIT Tiruchirappalli	14.03.2007	
Warden of SAPPHIRE Hostel, R.E.C., Tiruchirappalli	R.E.C., Tiruchirappalli	1997	2001
Staff advisor, Civil Engineering Association	R.E.C., Tiruchirappalli	1998	
Staff advisor, Youth Red Cross	R.E.C., Tiruchirappalli	1998	

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Research Advisory Board Member	NIT Calicut	2013	Till today
Board of Studies Member	Madurai Tyagaraja College of Engineering	2015	Till today

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	MHRD	1986 June	1987 December

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13. Details of Academic Work

(i) Curriculum Development

1. Traffic Engineering and Highway Geometrics
2. Transportation and Land Use 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. Highway Materials
10. Traffic and Transportation Engineering Lab
11. Highway Engineering Lab

(ii) Courses taught at Postgraduate and Undergraduate levels

Post Graduate Level

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

Undergraduate Level

1. Transportation Engineering – I
2. Transportation Planning
3. Traffic and Safety Engineering

(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

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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
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

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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
71. Dynamic Travel Time Estimation of a Highway Using Macroscopic Model for Heterogeneous Traffic
72. Mode Choice Analysis of Trip Makers in Tiruchirappallo 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

(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	2000		Completed
Household Survey to Assess Rural Transport Infrastructure, Tamilnadu State	IIM, Bangalore	2001		Completed
Remote Sensing Application in Interpretation and	MHRD, Government of India	2002	2004	Completed

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Monitoring of Ambient Air Quality				
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
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 Management using ITS	Ministry of Urban Development and IIT, Madras	29.11.2010	29.11.2012	Completed
Pavement Performance Studies on Coir Geotextiles Reinforced Rural Roads in Tamilnadu	Coir Board, Ministry of MSME, Government of India.	01.04.2011	31.03.2014	On-going
Preparation of State of the Art Report on Facilities for Pedestrians/Physically Challenged	Ministry of Road Transport and Highways, Government of	01.12.2011	30.05.2012	On-going

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Persons/Passengers	India			
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	On-going
Centre of Excellence in Transportation Engineering	MHRD, Government of India	May 2013	May 2017	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
20-22, November 1996	Short Term Course on Road Intersection Design and Management	National	Speaker	R.E.C., Calicut,	R.E.C., Calicut,
19-30 May 1997	ISTE summer school on Solar Architecture	National	Speaker	Regional Engineering College, Calicut	Regional Engineering College, Calicut
1 – 13 December	Winter School on Recent	National	Speaker	R.E.C., Tiruchirappalli	R.E.C., Tiruchirappalli

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1997	Developments on Analysis, Design and Detailing of Industrial Structures				
24.06.1999 to 26.06.1999	Rural Action Plan Integrated Database(RAPID) training course at State Institute of Rural Development,	Local	Speaker	State Institute of Rural Development, Maramalainagar, Chennai	State Institute of Rural Development, Maramalainagar, Chennai
19.08.1999	RAPID training program for staff of DRDA State Institute of Rural Development, Maramalainagar	Local	Speaker	State Institute of Rural Development, Maramalainagar	State Institute of Rural Development, Maramalainagar
March 4-8, 2002	Short term course on Quality control and Testing in Concrete construction	Local	Speaker	R.E.C., Tiruchirappalli	R.E.C., Tiruchirappalli
13-24 May 2002	Short term course on Quality control and Quality Assurance in Concrete Constructions	Local	Speaker	R.E.C., Tiruchirappalli	R.E.C., Tiruchirappalli
November 03-15, 2003	Short term course on Sustainable Urban Habitat, Thangal Kunju Musaliar College of Engineering	National	Speaker	Thangal Kunju Musaliar College of Engineering, Quilon	Thangal Kunju Musaliar College of Engineering, Quilon
March 24, 2004	Short term training programme on Industrial Safety and Environmental Engineering	National	Speaker	Anjalai Ammal Mahalingam Engg. College, Thiruvaur	Anjalai Ammal Mahalingam Engg. College, Thiruvaur
March 26, 2004	Short term training programme on Engineering Applications of GIS, GPS & RS	National	Speaker	Shri Angalamman College of Engineering & Technology	Shri Angalamman College of Engineering & Technology
May 20, 2004	PMGSY Training	Local	Speaker	College of	College of

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	Programme,			Engineering, Trivandrum	Engineering, Trivandrum
November 20, 2004	Advanced Training Programme on Applications of GIS, GPS and Remote Sensing in Urban Infrastructure Planning and Management,	National	Speaker	Jaya Engineering College, Chennai	Jaya Engineering College, Chennai
November 30, 2004	Short term training Programme, Modern Trends in Surveying,	National	Speaker	Periyar Centenary Polytechnic College, Thanjavur	Periyar Centenary Polytechnic College, Thanjavur,
November 29, 2004	Short term training programme on Failure of Structures	National	Speaker	Shanmuga Polytechnic College	Shanmuga Polytechnic College
January 5, 2005	Short term training programme on Watershed Management Using GIS and Remote Sensing	National	Speaker	Periyer maniammai College of Technology for women, Vallam, Thanjavur	Periyer maniammai College of Technology for women, Vallam, Thanjavur
August 10, 2006	Training Programme on Quality Control	Local	Speaker	College of Engineering, Trivandrum,	College of Engineering, Trivandrum,
27 th February 2007	Workshop on Testing of Construction Materials	National	Speaker	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
9 th March 2007	AICTE Staff Training Programme	National	Speaker	Muthayammal Polytechnic College, Rasipuram	Muthayammal Polytechnic College, Rasipuram
13 th October to 1 st November 2008	Advanced Training Programme on Application of Geomatics in Urban Transportation Planning and Management	National	Speaker	St. Peter's University, Chennai	St. Peter's University, Chennai
2 nd to 3 rd April 2009	Training Programme on	Local	Speaker	SIRD, Chennai	SIRD, Chennai

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	Planning, Design, Construction, Supervision & Quality Control of Rural Roads, for Executive Engineers				
6 th July, 2011	Training Programme on Planning and Implementation of Pradhan Mantri Gram Sadak Yojana (PMGSY)	Local	Speaker	State Institute of Rural Development, Kerala	State Institute of Rural Development, Kerala
1 st November 2011	Training Programme on Convergence of Pradhan Mantri Gram Sadak Yojana (PMGSY)	Local	Speaker	State Institute of Rural Development, Tamilnadu	State Institute of Rural Development, Tamilnadu
6 th September, 2013	Training Programme on Quality Assurance and Quality Control in Rural Roads	Local	Speaker	National Institute of Technology, Calicut	National Institute of Technology, Calicut
6 th September, 2013	One Day Workshop on Modern Bituminous Mix Technologies	Local	Speaker	National Institute of Technology, Calicut	National Institute of Technology, Calicut
27 th November, 2013	Short term Programme on Urban Transport Systems Planning	National	Speaker	National Institute of Technology, Calicut	National Institute of Technology, Calicut
December 3, 2014	Short Term Programme on Road Traffic Engineering – Principles and Applications	National	Speaker	National Institute of Technology, Calicut	National Institute of Technology, Calicut
December 4, 2014	Short Term Programme on Road Traffic Engineering – Principles and Applications	National	Speaker	National Institute of Technology, Calicut	National Institute of Technology, Calicut
9 th January, 2015.	Training Programme on Design,	National	Speaker	College of Engineering, Trivandrum	College of Engineering, Trivandrum

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	Construction and Maintenance of Roads				
20 th February, 2015.	National Conference on Innovative Materials and Technologies in Civil Engineering	National	Speaker	Bishop Jerome Institute, Kollam	Bishop Jerome Institute, Kollam
18 th March 2015	Workshop on Advancements in Civil Engineering	National	Speaker	Saveetha School of Engineering, Chennai	Saveetha School of Engineering, Chennai
April 10 - 11, 2015	Workshop on Alternative Materials and New Technologies for Rural Road Construction	Local	Speaker	National Institute of Technology, Calicut	National Institute of Technology, Calicut
July 20 - 21, 2015	Workshop on Alternative Materials and New Technologies for Rural Road Construction,	Local	Speaker	National Institute of Technology, Calicut	National Institute of Technology, Calicut
September 22 – 23, 2015	Knowledge Sharing Workshop on use of Green and low-cost materials and Technology in Rural Roads in India organised by The World Bank	Inter National	Speaker	The World Bank, NRRDA and Korea Growth Partnership	Lalith Hotel,
24 th April, 2015	Faculty Development Programme on Application of GIS and Remote Sensing	National	Speaker	University College of Engineering, BIT Campus, Anna University, Tiruchirappalli	University College of Engineering, BIT Campus, Anna University, Tiruchirappalli
19 th August, 2015	Training Programme on Road Safety Engineering for Engineers of PWP & IWTD	Local	Speaker	RV College of Engineering, Bengaluru	RV College of Engineering, Bengaluru
27 th August, 2015	Training Programme on	Local	Speaker	RV College of Engineering,	RV College of Engineering,

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	Road Safety Engineering for Engineers of PWP&IWTD			Bengaluru	Bengaluru
8 th October, 2015	Short Term Training Programme on Recent innovations in Transportation Engineering organized by Department of Civil Engineering	National	Speaker	Government Engineering Collage, Thrissur	Government Engineering Collage, Thrissur
5 th November, 2015	Training Programme on Road Safety Engineering for Engineers of PWP&IWTD	Local	Speaker	RV College of Engineering, Bengaluru	RV College of Engineering, Bengaluru
17 th February, 2016	Two Weeks Training Programme on Design, Construction, Maintenance and Management of Urban Roads	Local	Speaker	RV College of Engineering, Bengaluru	RV College of Engineering, Bengaluru

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
AICTE - ISTE Winter School on Advanced Computer Applications in Transportation Engineering (ACATE) - Two weeks short term course for Engineering Faculty and Practicing Engineers.	National		Co-ordinator	Dept. of Civil Engineering REC, Tiruchirappalli
Short-term course on Modern Survey Equipments – Five days course for PWD Engineers	Local	7 – 11, January 2002	Co-ordinator	Dept. of Civil Engineering REC, Tiruchirappalli

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Short-term course on Advanced Surveying Techniques - Five days course for PWD Engineers	Local	18 – 22 January 2002	Co-ordinator	Dept. of Civil Engineering REC, Tiruchirappalli
PMGSY Training Programme for Assistant Engineers of Rural Development Department (5 Programmes)	Local	17-19 September 2003, 20-25 September 2004, 4-9 October 2004, 25-30 October 2004 and 1-6 November 2004.	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Road Safety – Training of Users for Dissemination of Road Safety Manual – users Workshop (UW5)	Local	17-19 October 2005.	Co-ordinator	Hyderabad
Road Safety – Training of Users for Dissemination of Road Safety Manual – users Workshop (UW6)	National	20-22 October 2005.	Co-ordinator	Hyderabad
TEQIP sponsored Short Term Course on Design, Construction and Maintenance of Roads	National	October 2007	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	Local	18-23, May 2009.	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
NRRDA sponsored three-day Training Programme on PMGSY for the AEEs of the Rural Development Department	Local	23-25, June 2009.	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
NRRDA sponsored six-	Local	13-18, July	Co-ordinator	Dept. of Civil

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day Training Programme on PMGSY for the AEs of the Rural Development Department		2009.		Engineering NIT Tiruchirappalli
Involved in organizing Continuing Education Programmes to the Engineers of the Tamilnadu Highways Department on Road Safety Audit along with Dr. A. Veeraraghavan, Professor, Indian Institute of Technology Madras and Sponsored under Tamil Nadu Road Sector Project.	Local	18-19 March 2010 22-23 April 2010 6-7 May 2010 31.05.2010-1.6.2010 3-4 June 2010 21-22 July 2010		Villupuram Trichy Salem Madurai Tirunelveli Coimbatore
PMGSY Training programme for State Quality Monitors –	Local	May 2013	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Coir Board Sponsored Training Programme on Technological Initiatives under PMGSY	Local	7.10.2013	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Workshop on Urban Pavement Maintenance Management Systems (UPMMS) to Corporation Engineers	Local	April 16th 2015	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Short Term Training Programme on Recent Trends in Transportation Engineering	National	11-16, July 2016	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli

18. Invited Talks delivered

Topic	Date	Inviting Organization
Development of Surface Transportation in India	December 1996	Institution of Engineers, Tiruchirappalli Chapter
Indian Remote Sensing	3.09.1999	Periyar Maniammai College of Technology for Women, Vallam
Remote Sensing and its Applications,	2.05.2000	Institution of Engineers, Tiruchirappalli Chapter

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Indian Remote Sensing	August 2000	Periyar Maniammai College of Technology for Women
Remote Sensing and its Applications	September 2000	Institution of Engineers, Tiruchirappalli Chapter
Seismic Analysis	20 th March 2001	Indo-Over Seas Alliance for Business Development meeting
ITS – A Sustainable Transportation System	December 22, 2004	Periyar Maniammai College of technology for Women
Remote Sensing and GPS Applications	July 20, 2005	Periyar Maniammai College of technology for Women
Remote Sensing for Transportation and Land Use Planning	November 20, 2006	Jaya Engineering College, Chennai
Importance of Geo-Technology in the Safety of Airfield Pavements	30 th November 2006	Airports Authority of India, Tiruchirappalli Airport
GIS and Remote Sensing Applications in Engineering Sciences	25 th May 2007	Government College of Technology, Coimbatore
GIS and GPS Applications in Transportation Engineering	4 th May 2008	Oxford Engineering College, Trichy
Mode Choice Analysis, Planning, Design & Evaluation of Urban Transportation Systems	31 st May – 11 th June 2010	National Institute of Technology, Calicut
Urban Planning, M.Tech in Transportation Engineering	8-9 March, 2012	Rajiv Gandhi Institute of Technology, Kottayam
Transportation Planning	28-29 March, 2014	National Institute of Technology, Warangal
Sustainable Urban Transportation Systems	24 th July, 2014	CARE Engineering College
Faculty Development Programme on Application of GIS and Remote Sensing	24 th April, 2015	University College of Engineering, BIT Campus, Anna University, Tiruchirappalli

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
Life Member	The Institution of Engineers (India)	M125439-6
Life member	Indian Roads Congress	M-28387
Life Member	Transportation Research Group (TRG)	110

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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 (ISCMI-2015)
Srilanka	11 th – 14 th December 2015	ICSECM 2015, 6 th International Conference on Structural Engineering & Construction Management

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,	Vol. 5, No. 4	pp. 99-107	July 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	Vol. 6, No. 4	pp. 1-9	June 2008	
N. Venkat Kumar, Samson Mathew and G. Swaminathan	Fuzzy Information Processing for Assessment of Groundwater Quality	International Journal of Soft Computing	Vol. 4, No. 1	pp. 1- 9	2009	
Natarajan Venkat Kumar, Samson Mathew,	Analysis of Groundwater for Potability from Tiruchirappalli City Using	Journal of Environmental Protection	Vol. 1,	pp. 136-142	April 2010	

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Ganapathiram Swaminathan,	Backpropagation ANN Model and GIS					
Natarajan Venkat Kumar, Samson Mathew, Ganapathiram Swaminathan	A Hybrid Approach towards the Assessment of Groundwater Quality for Potability : A Fuzzy Logic and GIS Based Case Study of Tiruchirappalli City, India	Journal of Geographic Information System	Vol. 2	pp. 152-162	April 2010	
Natarajan Venkat Kumar, Samson Mathew, Ganapathiram Swaminathan	Multifactorial Fuzzy Approach for Assessment of Groundwater Quality	Journal of Water Resource and Protection	Vol. 2	pp. 597-608	May 2010	
G. Niranjana, Samson Mathew and P. Jayabalan	Structural Strength Enhancement of Rigid Pavement Using Natural Fibre Reinforcement	International Journal of Applied Engineering Research	Vol. 5, No. 11	pp. 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	ISSN 2010-006x	pp. 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	Vol. 14, No. 2	pp. 58-68	2010	

**National Institute of Technology, Tiruchirappalli:
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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,	A Study on Effect of Rice Husk Ash and Cement on the Engineering Properties of Nagapattina m Subgrade Soils, India,	Volume 3	pp. 829-845	2010	
P. Selvi, Samson Mathew and K. B. Velliangiri,	Kenlayer Analysis of Stress Distribution of Fly Ash and Cement Stabilized Low Volume Roads,	Internationa l Journal of Engineering Research and Technology , ISSN 0974-3154	Volume 3, Number 3	pp. 847-861	2010	
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	Volume 3, Issue 1	Pages 21-32	2012	
Sathees Kumar, D.Thirumalaiv asan, Nisha Radhakrishnan , Samson Mathew	Groundwater Vulnerability Assessment Using SINTACS Model	Geomatics Natural Hazards and Risk. (SCIE)	DOI:10.108 0/19475705 2012.73211 9	pp.1-16	2012	0.977
Vidya, R., S. Moses Santhakumar and Samson Mathew	Simulation Study of Construction Work Zones - A Case Study	STM Publications ,	Vol. 2(2)		2012	
Vidya, R., S. Moses Santhakumar and Samson Mathew	Impact of Work Zones on Speed Variation During Widening of the	Internationa l Journal of Engineering Science and Technology	4(2)	546-554	2012	

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	Highway - A Case Study					
V. Sunitha, A. Veeraragavan, Karthik K. Srinivasan, and Samson Mathew	Cluster-Based Pavement Deterioration Models for Low-Volume Rural Roads		Vol.	2090-5106	2012	
Sathees Kumar, Nisha Radhakrishnan, Samson Mathew	Land Use Change Modeling Using a Markov Model and Remote Sensing	Geomatics, Natural Hazard and Risk	(DOI:10.1080/19475705.2013.795502)	pp.1-16	2013	0.977
V. Sunitha, A. Veeraragavan, Karthik K. Srinivasan, and Samson Mathew	Application of Factor Analysis in Maintenance Management of Low Volume Roads	International Journal of Pavement Research and Technology	Vol.6 No.2	pp. 130-135	Mar. 2013	
Remya K. P., Samson Mathew	, OD Matrix Estimation from Link Counts Using Artificial Neural Network	International Journal of Scientific & Engineering Research	Volume 4, Issue 5	pp. 293-296	May 2013	
Remya K. P., Samson Mathew	OD Matrix Estimation from Link Counts Using Artificial Neural Network	International Journal of Scientific & Engineering Research	Volume 4, Issue 5	pp. 293-296	May 2013	
Vidya, R., Dr. S. Moses Santhakumar and Dr. Samson Mathew	Estimation of IRI from PCI in Construction Work Zones	ACEE Int. J. on Civil and Environmental Engineering	Vol. 2, No. 1,	2162-2180,	Aug 2013	
S. Manipriya, C. Mala and Samson Mathew	Performance Analysis of Spatial Colour Information for Object Detection Using Background Subtraction	SciVerse Science Direct, Elsevier IERI Procedia			2014	
Nagaraj B. N. and Samson	Formulation of Travel Demand	Journal of Transport	Vol. 18, No.3	pp. 165-169	March 1994	

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Mathew	Estimation Problem in a Goal Programming Framework	Management, ISSN 0970-4736				
Samson Mathew and Bh. Annapurna,	Integrated GIS as a Tool for Urban Transportation Planning	Urban Transport Journal	Vol 2, No.1	pp. 62-73	March 2001	
T. Chandramohan, A. N. Balchand and Samson Mathew	Field Verification of Runoff Curve Number Estimated From Rainfall – Runoff Data	Hydrology Journal	Vol. 28(1 – 2)	pp. 71 – 78	March – June 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	Vol. 88	pp. 34-42	November 2007	
G. Niranjana, Samson Mathew and P. Jayabalan	Structural Strength Enhancement of Rigid Pavement using Scrap Steel Fibre Reinforcement,	New Building Materials & Construction World. ISSN 0973-0591	Vol. 13, Issue-11	pp. 206-215	May 2008	
Chandramohan T, Samson Mathew and Balchand A N	Development and Application of Unit Sediment Graph (USG) for Sediment Yield Modeling	The Icfai University Journal of Soil and Water Sciences,	Vol. 1, No. 1	pp. 77-88	August 2008	
Samson Mathew, P. Selvi and K. B. Velliyangiri	A study on Engineering Properties of Cement Stabilised Seashore Soils	New Building Materials & Construction World	Vol.14, Issue-7	pp. 156-167	January 2009	
A. K. Raji,	, Rural	Journal of	ISSN 0376-	pp. 29-38,	Septem	

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Samson Mathew and P. Subha	Connectivity Design Through Transportation Related Hierarchy of Habitations,	Indian Highways	7256		ber 2010	
C Parathasarathy , Karthik Kumaresan, Chitralkha Sumbui, 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	Vol. 5, No. 1,	pp. 1 - 9	January 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., Usha. K, P.S Money, Samson Mathew	A Model of Dynamic Urban Structure Specification for Estimation of Temporal Travel Demand	National System Conference on Transportation Studies (NACOTS-90)	pp. 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, Indian National Academy of Engineering	pp. II-11-22, 12-13		New Delhi	February 1993
Nagaraj B. N., Samson Mathew, Manju V. S.	Estimation of Origin – Destination Matrices Using Link Volume Counts by Multi -	Third National Conference on Transportation Systems Studies Analysis and Policy (NCOTSS - 93)	pp. 1 - 10-30		Andhra University, Visakhapatnam	11-12 Decem ber 1993

National Institute of Technology, Tiruchirappalli:
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	Objective Goal Programming Strategy					
Samson Mathew and Nagaraj B N	Some New Experiments in the Estimation of Travel Demand Using Link Volume Counts	VI Kerala Science Congress	pp. 396-389		State Committee on Science, Technology & Environment, Kerala, Thiruvananthapuram	27-29 January 1994
T. S. Ambili, Samson Mathew and T. S. Venkatraman	Correlation Between CBR and Clegg Impact Value	National Seminar on Emerging Trends in Highway Engineering	pp. P25.1-25.5		Venkataraman, Centre for Transportation Engineering, Bangalore University	10-11 March 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				Kuppusamy, Second National Convention on Vastuvidya, Vastuvidya'96	15-16 December 1996
Samson Mathew and C. V. Phani Kumar	Transport Development Plan for Kakinada City	National Seminar on Trends and Techniques in Transportation	pp. II 87-91		Centre for Transportation Engineering, R.E.C., Warangal, India	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	17-18 November 2000
Samson Mathew and Jaikokila	Safety Auditing using Accident Possibility Index	National seminar on Road Accidents Causes and Preventive Measures	pp. 32-41		Institute of Road and Transport Technology, Erode	19-21 December 2001
Samson Mathew and N. S.	Safe Highways through	National seminar on Road Accidents -	pp. 51-60		Institute of Road and Transport	19-21 December 2001

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Kameswara Rao	Accident Prevention and Helping Centres – An Innovative Approach	Causes and Preventive Measures			Technology, Erode	
Samson Mathew	Safe Highways Through Accident Prevention and Helping Centres – An Innovative Approach	62 nd Annual Session of the Indian Roads Congress			Cochin	8 th to 11 th January 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	14 – 16 February 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)			Periyar Maniammai College of Technology for Women, Thanjavur	10-11 February 2003
Samson Mathew and Anu P.	Travel and Mode Choice Behaviour of Trip Makers – A Comparative Study Between Kerala and Tamilnadu	Alex National Conference on Advances in Civil Engineering: Perspectives of Developing Countries	pp. 677-686		Harcourt Butler Technical Institute, Kanpur	15-16 February 2003
Samson Mathew and Ajilesh K. T., Kanpur, ,	TRADES – A Package for Travel Demand Estimation Using Link Volume	National Conference on Advances in Civil Engineering: Perspectives of Developing	pp. 655-668		Harcourt Butler Technical Institute	15-16 February 2003

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	Philosophy	Countries				
Samson Mathew and Sathish Babu T.,	A Study on Shoulder Width and Its Effect on Carriageway Effective Width	National Conference on Advances in Civil Engineering: Perspectives of Developing Countries	pp. 699-711		Harcourt Butler Technical Institute, Kanpur	15-16 February 2003
Samson Mathew, P Anand and S Saraswathy	Quantification of Urban Accessibility Levels – A Case Study of Tiruchirappalli	National Conference on Urban Transport & Environment	pp. 380-391		K.L.E. Society's College of Engineering & Technology, Belgaum (Karnataka)	pp. 380-391
Samson Mathew, Anil Kumar Muddalapura m and D Srividya	Modal Integration for Hyderabad Urban Mass Transport System	National Conference on Urban Transport & The Environment	pp.156-165		K.L.E. Society's College of Engineering & Technology, Belgaum (Karnataka)	5-7 June 2003
Samson Mathew, Ravishakar Ramachandra n and Nitin Kumar	ITS – A Mobile Technology Based Vehicle Monitoring	National Conference on Urban Transport & The Environment	pp. 189-199		K.L.E. Society's College of Engineering & Technology, Belgaum, Karnataka	5-7 June 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, India	22-23 August 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, India	22-23 August 2003
Samson Mathew and D. Srividya	Bicycles-A User-Friendlier, Energy-	National Seminar on Sustainable Habitat			T. K. M. College of Engineering, Kollam, Kerala,	22-23 August 2003

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	Efficient, Ecofriendly Mode of Transport				India	
Samson Mathew, A. Durga Giridhar and Itta Subramanyam	PDMS – A Flexible Pavement Design and Monitoring System	National Conference on Modern Cement Concrete and Bituminous Roads	pp. 152-160,		College of Engineering, GITAM, Visakhapatnam	18-20 December 2003
Samson Mathew, K. Ahmed Asif and Suthakar C. J.	A Simplified Method for Flexible Pavement Overlay Design	National Conference on Modern Cement Concrete and Bituminous Roads	pp. 161-171		College of Engineering, GITAM, Visakhapatnam	18-20 December 2003
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	pp. 513-520		College of Engineering, GITAM, Visakhapatnam	18-20 December 2003
Samson Mathew, Kanhaiya Charan 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	18-20 December 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, Department of Geography, School of Earth and Atmospheric Sciences				29-30 March 2004
Samson Mathew, D. Srividya and V. Sunitha	Selection of Site for Vegetable Market in Tiruchirappalli	National Conference on Applications of GIS and GPS in Civil	pp. 151-161		Jaya Engineering College, Thiruninravur	03 July 2004

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	Using Integrated GIS and User Optimization	Engineering				
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	December 16, 2004
Samson Mathew, S. Anita, S. Saraswathy and R. Sundaresan,	Remote Monitoring of Vehicle Using GPS	National Conference on Advances in Road Transportation			National Institute of Technology, Rourkela, Orissa, India	12-13 February 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			National Institute of Technology, Rourkela, Orissa, India	12-13 February 2005
Samson Mathew, R Jayashankar, B Jeyanthi and D Srividya	GIS Based Bridge Management System	National Conference on Advances in Road Transportation			National Institute of Technology, Rourkela, Orissa, India	12-13 February 2005
Samson Mathew and D Srividya	GIS Based Pavement Management System for Tamil Nadu	National Conference on Advances in Road Transportation			National Institute of Technology, Rourkela, Orissa, India	12-13 February 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	pp. 97-105		Jaya Engineering College, Thiruninravur, Tamil Nadu	19 th March 2005

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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	pp. 89-96		Jaya Engineering College, Thiruniravur, Tamil Nadu	19 th March 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	March 24-25, 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	9-10 April 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	20–21, March 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			St. Peter's College of Engineering, Chennai	21 – 22 November 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	21 – 22 November 2006
Samson Mathew, S.	Applications of GPS in Study of	National conference on GIS, GPS and			St. Peter's College of Engineering,	21 – 22 November

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Moses Santhakumar, S. Saraswathy and V. Palanikumar	Highway Geometrics	RS Applications in Transportation Planning and Management			Chennai	er 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	21 – 22 November 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	21 – 22, November 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			Thangal Kunju Musaliar College of Engineering, Kollam, Kerala, India	1 – 3, February 2007
Samson Mathew, V. Palani Kumar, Ishan Bajpai, Shubhrata Singha and Somnathsen,	Emergency Vehicle Assistance System Using GIS and GPS	National conference Focussing on Advances in Civil Engineering			Thangal Kunju Musaliar College of Engineering, Kollam, Kerala, India	1 – 3, February 2007
Nagaraj B. N., Usha. K, P.S Money, Samson Mathew	A Model of Dynamic Urban Structure Specification for Estimation of Temporal Travel Demand	National System Conference on Transportation Studies (NACOTS-90)	pp. 1-8		I.I.T., Delhi	1990
Nagaraj B. N., Samson	Estimation of Origin -	National Seminar on Urban	pp. II-11-22,		New Delhi	February 1993

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Mathew	Destination Matrices from Link Volume Counts	Transportation, Indian National Academy of Engineering	12-13			
Samson Mathew, A. K. Raji, V. Sunitha and Swathi N	Rural Road Network Planning- A Case Study of Karimnagar District in Andhra Pradesh	National conference Focussing on Advances in Civil Engineering			Thangal Kunju Musaliar College of Engineering, Kollam, Kerala,India	1 – 3, February 2007.
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	1 – 2, March 2007
Samson Mathew and L. Balamurali Krishna	Studies on Polymer Modified Bituminous Mixes	National Seminar on Roads 2007			The Institution of Engineers, Belgaum	1 – 2, March 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 Institution of Engineers, Belgaum	1 – 2, March 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	9 – 10 March 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	22-23, March 2007
Samson Mathew, S.Moses Santhakumar, V. Sunitha	Travel Characteristics of Tamil Nadu Rural Population	National Conference on Earthquake and Transportation Engineering			Sona College of Technology, Salem	22-23, March 2007

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and J. Sheeba						
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	5 th April 2007
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	21-24 April 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	21-24 April 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 organized by School of Civil Engineering	173-191		Karunya University, Coimbatore	February 16th, 2008
Samson Mathew and Chinnu Anna Jacob	Estimation of Origin – Destination Matrix from Link Volume Counts Using	National Conference on Recent Innovations in Technology			Rajiv Gandhi Institute of Technology, Kottayam	March 26-28, 2009

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	Bi-Level Programming					
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	March 26-28, 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	July 08 – 10, 2011
	Forecasting Urban Sprawl and Traffic Conditions in Tiruchirappalli City	Urban Mobility India Research Symposium			New Delhi	3- 6 December 2011
	Development of Park and Ride System in Tiruchirappalli City	1 st TRG Conference			Bangalore	December 7-10, 2011
Sunitha V. and Samson Mathew	Urban Pavement Maintenance Management Systems (UPMMS)	National Conference on Urban Mobility – Challenges, Solutions and Prospects			IITM, Chennai	July 13 – 14, 2012
Moses Santhakumar, Samson Mathew and Nisha Radhakrishnan,	Urban Speed Management Using ITS	National Conference on Urban Mobility – Challenges Solutions and Prospects			IITM, Chennai	July 13 – 14, 2012
	Origin Destination	India Geospatial Forum			Hyderabad Internal	22 -24 January

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	Matrix using Bilevel Programming				Convention Centre, Hyderabad	2013
	Speed Detection and Management – ‘ITS’ application	India Geospatial Forum			Hyderabad Internal Convention Centre, Hyderabad	22 -24 January 2013
G. Nantha Priya, Samson Mathew and G. Subbaiyan	Mode Choice Analysis of Senior Citizens – A Case Study of Tiruchirappalli City,	International Conference on Ingenious Technologies and Sustainable Developments in Civil Engineering (ICICE)			Noorul Islam University, Kumaracoil, Kanyakumari District, Tamilnadu	8 th October 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 Conference on Ingenious Technologies and Sustainable Developments in Civil Engineering (ICICE)			Noorul Islam University, Kumaracoil, Kanyakumari District, Tamilnadu	8 th October 2014
Sonali Snehanjan 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	3-4 July 2015

(C) Books & Monographs

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