

Malathi Narra



Designation : Senior Assistant Professor
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Contact at : #225, Department of Civil Engineering,
 Siddhartha Academy of Higher Education,
 Kanuru, Vijayawada, Andhra Pradesh 520007.

Education

Ph. D,Osmania University,Hyderabad,Telangana

M.Tech (Transportation Engineering)

2000, Jawaharlal Nehru Technological University, Hyderabad

B.Tech (Civil Engineering)

1998, Natinal Institute of Technology, Warangal.

Teaching Experience & Industrial Experience 25 YEARS

Period	Designation	Institution / Organization
August 25-till date	Senior Assistant Professor	Velagapudi Ramakrishna School of Engineering SAHE, Vijayawada
2016-2025	Assistant Professor	Velagapudi Ramakrishna School of Engineering ,SAHE
2014-2016	Assistant Professor	BV Raju Institute of Technology, Narsapur, Medak
2012-2014	Associate Professor	MallaReddy Institute of Technology and science
2010-2012	Assistant Professor	CMR Technical Campus, Kandlakoya, Medchal
2007-2010	Assistant Professor	TRR College of Engineering, Patancheru
2003-2007	Sr Photogrammetrist and GIS Analyst	IIC Technologies, Jubilee Hills ,Hyderabad
2001-2003	Jr Photogrammetrist and GIS Analyst	NRSC Premises, Navayuga Pvt Ltd, Hyderabad

Courses Taught

- Transportation Engineering
- Pavement Design

- Traffic Engineering
- Urban Transportation Planning
- Geospatial Technologies
- Disaster Management and Mitigation
- Railway Engineering Airport Engineering ,Docks and harbor Engineering, Tunnel Engineering
- Pavement Maintenance and Management
- Construction Technology and Project Management
- Highway Safety
- Fluid Mechanics
- Hydraulics and Hydraulic Machinery
- Remote Sensing and GIS
- Building Materials and Building Construction

Research Interests

Broad Area of Research :

Transportation Planning and Traffic Signal Control Systems, LOS Concept, Driver and Pedestrian Behaviour on Indian context, Accident Analysis and Mitigation Measures,Pavement Analysis and Design, Pavement Subgrade Material Characterization , Urban Transportation Planning.

Honors and Awards

• Session Chair

Chair of the session A5-S3:

Road traffic behavior, in the 16th world conference on transport research, in Montreal, Canada, from July 17 to 21.

- NOMINEE---FICCI ROAD SAFETY AWARDS On Best Project work on Accident Analysis for Vijayawada city.

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

S.No.	Index In	Title of the Paper	Status of Author	Name of the Journal,Vol,Page Nos
1	SCI	A NOVEL OPTIMIZED INTELLIGENT GREEN SIGNAL TIMING SYSTEM FOR URBAN CORRIDOR	First Author	CONCURRENCY AND COMPUTATION ,WILEY PUBLICATIONSVOLUME 34 ISSUE26
2	SCOPUS	GEOTECHNICAL CHARACTERISTICS OF POLYPROPYLENE MACRO FIBRE REINFORCED	First Author	IOP CONFERENCE SERIES: EARTH AND ENVIRONMENTAL SCIENCE

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3	SCOPUS	A HYBRID MACHINE LEARNING APPROACH FOR PERFORMING PREDICTIVE ANALYTICS ON ROAD ACCIDENTS	Fourth Author	6TH IEEE INTERNATIONAL CONFERENCE ON COMPUTATIONAL SYSTEM AND INFORMATION TECHNOLOGY FOR SUSTAINABLE SOLUTIONS
4	SCOPUS	AI ENABLED ACCIDENT BLACK SPOT ALERTING MOBILE SYSTEM TO ENHANCE ROAD SAFETY USING GMM-SVM	fourth Author	JISAE, 2023, 11(4), 734–742
5	SCOPUS	PERFORMANCE BASED CONGESTION CONTROL USING VIDEO GRAPHIC VOLUME COUNT FOR AN UNCONTROLLED INTERS	First Author	(IJITEE) ISSN: 2278-3075, VOLUME-8 ISSUE-2S DECEMBER, 2018
6	SCOPUS	IMPACT OF CLIMATE CHANGE ON WATER RESOURCE ENGINEERING IN TRINIDAD AND TOBAGO	second Author	LARHYSS JOURNAL, ISSN 1112-3680, N°55, SEPT 2023, PP. 215-229
7	SCIE	ADVANCING GIS MAP MAINTENANCE: CHANGE DETECTION AND UPDATE USING RESU-NET : A CASE STUDY ON CHAN	third Author	CURRENT SCIENCE, VOLUME 125, ISSUE 10
8	UGC-CARE	REVIEW OF THE FUZZY LOGIC BASED APPROACH IN TRAFFIC SIGNAL CONTROL	First Author	THE INTERNATIONAL JOURNAL OF ANALYTICAL AND EXPERIMENTAL MODAL ANALYSIS VOLUME XIV, ISSUE I, JA
9	WEB OF SCIENCE	COMPARATIVE STUDY ON ASPHALT MIXTURE WITH NANO MATERIALS AND POLYMER	First Author	IOP CONFERENCE SERIES,IOP CONF. SER.: MATTER. SCI. ENG. 1112 012019
10	WEB OF SCIENCE	STABILIZATION OF EXPANSIVE SOIL BY USING LIME AND REINFORCEMENT WITH GEOTEXTILE	First Author	IOP CONFERENCE SERIES,MATERIAL SCIENCE AND ENGINEERING
11	WEB OF SCIENCE	TRAFFIC CONGESTION AND SPEED DELAYS AT BENZ CIRCLE, VIJAYAWADA DUE TO CONSTRUCTION	First Author	IJET, ICSSC VRSEC 2017
		ACTIVITIES”,		
12	WEB OF SCIENCE	STABILIZATION OF EXPANSIVE SOIL BY USING LIME AND REINFORCEMENT WITH GEOTEXTILE	First Author	IOP CONFERENCE SERIES,IOP CONF. SER.: MATTER. SCI. ENG. 1112 012019
13	SCOPUS	EFFICIENT METHOD OF REGENERATION OF ENERGY FROM SPEED BREAKER” IJITEE JAN 2020	First Author	INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING (IJITEE) ISSN: 2278-307

14	SCOPUS	PEDESTRIAN GAP ACCEPTANCE BEHAVIOUR AT UNCONTROLLED INTERSECTIONS FOR AN URBAN CORRIDOR VIJAYAWA	First Author	INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING (IJITEE) ISSN: 2278-307
15	WEB OF SCIENCE	STRENGTHENING OF FLEXIBLE PAVEMENT BY ADDING RECROFIBRE	First Author	IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING, VOLUME 1112,
16	SCOPUS	REDUCTION OF DELAYS AT ISOLATED SIGNALIZED INTERSECTION USING NOVEL GOLDEN EAGLE BASED FUZZY SIGNAL CONTROLLER	First Author	SCIENCE DIRECT ELSEVIER –TRANSPORT RESEARCH PROCEEDIA VOLUME 82,2025,PAGES 3752-3767
17	SCOPUS	EVALUATING BITUMEN MIX WITH A BLEND OF RHA AND SYNTHETIC MATERIAL: A COMPARATIVE PERSPECTIVE	First Author	SPRINGER-DOI: 10.1007/978-3-031-73820-3_8 ADVANCES IN ENVIRONMENTAL SUSTAINABILITY,ENERGY AND EARTH SCIENCE
18	SCOPUS	INNOVATIVE SOLUTIONS FOR AGRICULTURE:SENSOR DRIVEN SOIL PARAMETER MONITORING AND DEEP LEARNING IN POTATO DISEASE DETECTION	First Author	INTERNATIONAL JOURNAL OF RECENT AND INNOVATION TRENDS IN COMPUTING AND COMMUNICATION, ISSN: 2321-8169 Volume: 11 Issue: 9
19	SCOPUS	REDEFINING SUSTAINABILITY IN BUILDING PRACTICES IN CIRCULAR CONSTRUCTION PROCESS	First Author	INNOVATIONS IN ENERGY EFFICIENT CONSTRUCTION THROUGH SUSTAINABLE MATERIALS-ADVANCES IN CHEMICAL AND MATERIALS BOOK SERIES- IGI GLOBAL PUBLISHING
20	SCOPUS	APPLICATION OF GOOGLE EARTH ENGINE NDVI TREND TO STUDY YIELD OF SUGARCANE CROP USING SENTINEL 2 DATA	First Author	NAVIGATING USABILITY AND USER EXPERIENCE IN MULTI PLATFORM WORLD IGI GLOBAL PUBLISHING BOOK SERIES
21	SCOPUS	PERFORMANCE BASED EVALUATION ON STRENGTHENING OF FLEXIBLE PAVEMENT USING SBR AND RICE HUSK ASH AS FILLER MATERIAL.	Third Author	INTERNATIONAL CONFERENCE ON MATERIALS INNOVATION AND SUSTAINABLE INFRASTRUCTURE JOURNAL OF PHYSICS: CONFERENCE SERIES 2779 (2024) 012022 IOP PUBLISHING DOI:10.1088/1742-6596/2779/1/012022
22	SCI	EXPLORING THE COMBINED EFFECTS OF HYDROGEN AND MULTIWALLED CARBON NANOTUBES ON THE PERFORMANCE, EMISSIONS, AND COMBUSTION CHARACTERISTICS OF A DIESEL	Fourth Author	ENERGY SCIENCE & ENGINEERING, 2025; 1–18 1 HTTPS://DOI.ORG/10.1002/ESE3.70277

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Recognized Research Supervisor

S.No.	Department	University
01.	Civil Engineering Department	VRSSSE, Siddhartha Academy of Higher Education

Funded Research Projects

S.No.	Type	Title	Status	Funding Agency	Amount (INR)	Duration
01.	Funded	Updating very large scale urban GIS maps using Deep learning Techniques	On-Going	ISRO-NRSC	17.84 Lakhs	2 Years

Abroad/International Conference Papers Presented and Published	1.16th World Conference on Transportation Research, Montreal, Canada 17th-21st July 2023, Reduction of Delays at Isolated Signalized Intersection using Novel Golden Eagle-Based Fuzzy Signal Controller. 2.The 3rd International Symposium on Multimodal Transportation Dec 06 – Dec 07, 2019. NUS, Singapore.” Review of the Fuzzy Logic Based approach in Traffic Signal Control Prospects in south India”
Google Scholar	https://www.google.scholar.co.in/citations?/user Malathi Narra
Scopus	https://www.scopus.com/DOI: 10.35940/ijitee.C1006.0193S220
ORCID	https://orcid.org/0000-0002-6076-1464
Research Gate	https://www.researchgate.net/profile/malathi-narra DOI: 10.14419/ijet.v7i2.1.11047
LinkedIn	https://in.linkedin.com/in/malathi-narra-b152b790

Reviewer	International Journal of Transportation Engineering and Technology.
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Administrative Roles

S.No.	Role	Institution	Duration	Responsibilities
1	Convenor	VRSSE	2023-Present	Student Council

Certifications/MOOC Courses Completed

S.No.	Title	Platform	Duration	Year
1.	Research writing	NPTEL	8WEEKS	2017

Patents

S.No	Title	Status	Application No.	Year
1.	Development of Machine learning Methods to predict compressive strength of concrete	Published	202321022556	2022
2.	Dynamic monitoring of bridge scour Under heavy water flow	Published	202341011002	2024

Ph.D

Registered	01
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Invited Talks

No. of Invited Talks	02
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Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	10
International / National Level Seminars	00 / 12
International / National Level Conferences	02 / 15
Workshops	14
Instructor Led / Self-Paced Courses	6
Webinars	8

Professional Bodies Membership Details

LM36683	Indian Roads Congress(IRC)
LM67180	Indian Society for Technical Education (ISTE)
LM9850	Indian Concrete Institute(ICI)
LM20152	Transportation Research Group

Dr.Malathi Narra

(Your Name & Signature with Date)
