

Dupadu Village, NH-44, Lakshmipuram (Post), Kurnool, AP-518218.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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FACULTY PROFILE

Faculty Name: Dr. Suman Turpati

Faculty Photo:

Faculty Description:

Dr. Suman Turpati, is the Incharge of Research and Development and Associate Professor in the Department of ECE in Dr. K.V. Subba Reddy Institute of Technology (Auotnomous) in Kurnool With a strong educational foundation, he did his Bachelor's Degree in ECE from MIST 2011, which is affiliated with JNTU Hyderabad. He further refined his expertise by completing a Master of Engineering in ECE with specilization of wireless Mobile Communication from JNTU Hyderabad in 2014. His academic journey culminated in a Ph.D. in ECE from JNTUA Anantapuramu. Bringing over 15 years of rich experience

in academia, research, and administration, he has excelled in various roles, including Associate Professor, Controller of Examinations and Incharge of Research and Development. An accomplished author, he has published 22 publications in prestigious international journals, including Elsevier, Springer, IEEE Transactions, and Scopus-indexed platforms, and 9 papers are presented in IEEE Conferences, and holds 2 patents. His contributions to the field significantly enhance the academic landscape. He has attended more than 40 Faculty Development Programs / workshops. He has supervised over 35 projects at both the postgraduate and undergraduate levels, and served as an examiner for M.Tech students at JNTUA, and other reputable institutions. His collaborations as a guest faculty member, counselor, trainer, and examiner further showcase his dedication to academic excellence. He has been an enthusiastic expert speaker in numerous Faculty Development Programs, organizing a variety of workshops and short-term courses, while also participating in many such programs himself. Additionally, he has taken on the responsibility of setting question papers for several respected government universities and autonomous institutions. His research interests are exciting and encompass areas like Adaptive Signal Processing, Communications, Machine Learning, Image Processing, Artificial Intelligence, and Quantum Computing.

Dr.K.V. SUBBA REDDY INSTITUTE OF TECHNOLOGY Dupadu Village, NH-44, Lakshmipuram (Post), Kurnool, AP-518218.

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Profile Tab:

Qualification

Qualification	Board/Univers	College/School	Specialization	Year of	Percen
	ity			Passing	tage
Ph.D.	JNTU, Anatapuramu	JNTU, Anatapuramu	Adaptive Signal Processing	June 2023	
М. ТЕСН	JNTU, Hyderabad	JPNCE, Mahbubnagar	Wireless Mobile Communication	2014	82.04
В.ТЕСН	JNTU, Hyderabad	MIST, Hyderabad	ECE	2011	72.04
INTERMEDIATE	Board of Intermediate Education	APSWR junior college Chinnnatekur (vi) Kurnool (D)		2006	90.07
S.S.C	Secondary School of Education	Z.P.P.High School Nehru Nagar(v), Kurnool (D)		2004	89.85

Awards / Achievement

- ✓ A JNTUA (2015) RATIFIED faculty.
- ✓ Acting as Reviewer for Springer Nature, IEEE and SAGE Journals

Responsibilities Tab:

Responsibilities

- ➤ Controller of Examinations (Incharge)
- ➤ Additional Controller of Examinations (ACE1)
- ➤ NBA Criterion in charge
- Research Domain Head

✓ Working as a faculty

The following responsibilities are carried out as a faculty

- o Teaching regular Course Work
- o Mentoring the Students
- o Continues research



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Teaching Tab:

Expertise / List of subjects handled

GRADUATION LEVEL (B.TECH)		PG LEVEL (M.TECH)		
>	Control Systems	>	Advanced Digital Signal Processing	
>	Signals and Systems	>	Digital Image and Video Processing	
>	Digital Signal Processing			
>	Digital Image Processing			
>	Electronic Devices and Circuits			
>	Analog Electronic Circuits			
>	Electronic Measurements &			
	Instrumentation			
>	Switching Theory & Logic Design			
>	Digital communications			
>	Real Time Operating Systems (RTOS)			

Research Tab:

Research Interest

- ➤ Adaptive Signal Processing
- Communications
- ➤ Machine Learning
- ➤ Image Processing

Publications Tab:

Research Contributions: Total 22 publications & 9 Conferences

- Paper Publications on Research Topic: 6-SCIE indexed, 2-ESCI indexes 11-SCOPUS indexed journals, 3-Good UGC Journals & 9-Conferences.
- **Book Chapters:** 02 (Scopus)
- Four SCI Papers are Under review.
- Two ESCI & Scopus papers are under review.
- Three papers are accepted in IEEE Conference in ICSIT 2025 Symbiosis Institute of Technology, Nagpur.
- Reviewer for the following journals and conferences:
 - 1. Journal of Vibration and Control- Elsevier



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- 2. IEEE Access
- 3. Signal, Image and Video Processing-Springer
- 4. Journal of Sound and Control-SAGE
- 5. IEEE Conferences

Orcid Id: <u>0000-0002-0842-1315</u>

Scopus Id: 57210234883 Researcher Id: <u>rid117678</u>

Google Scholar Id: <u>-G6xXRm0AAAAJ&hl</u>

Citations (Scopus):1982

H-Index: 07 Citations (Google):113 H-Index:07

i-10 index:04

PUBLICATIONS:

DLI	CATIONS.		
S.No	SCI / SCIE / ESCI / WEB OF SCIENCE / SCOPUS JOURNALS	Indexing	Quality Factor
1	Turpati Suman , Roy A, Addepalli T, Alkahtani M, Hakami A, Minai AF, Hammad A. Vector Decimation Harmonic Mean Based Algorithm For online Acoustic Feedback Active	SCIE	Q1
2	Noise Control. IEEE Access. (2025) May 26. Turpati, Suman, Ajay Roy, K. C. T. Swamy, Mohammad Khalid Imam Rahmani, Masood Ur Rehman, Sudan Jha, Sultan Ahmad, Jabeen Nazeer, Hikmat AM Abdeljaber, and Yasser Eid Aljohani. "Robust Non-Linear Active Function-Based FxRLS for Impulsive Active Noise Control." IEEE Access 12 (2024): 43222-43234.	SCIE	Q1
3	Swamy, K. C. T., Ratnam, D. V., Suman, T., & Ahmed, S. T. (2023). Time-differenced double difference method for measurement of Navigation with Indian Constellation (NavIC) receiver differential phase bias. Measurement (Elsevier), 207, 112385.	SCIE	Q1
4	Suman, T., & Moram, V. (2023). Implementation of robust virtual sensing algorithm in active noise control to improve silence zone. International Journal of Speech Technology (Springer), 26(1), 51-62.	SCI	Q1
5	Suman, T., & Venkatanarayana, M. (2021). Active noise control for PVC duct using robust feedback neutralization F× LMS approach. Journal of Control, Automation and Electrical Systems (Springer), 32(5), 1189-1203.	SCI	Q2
6	Suman, T., & Venkatanarayana, M. (2020). Improved performance of impulse active noise control using active	SCIE	Q1

DON'NG TITUTO

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	function threshold with absolute harmonic variable step-size algorithm. Microprocessors and Microsystems (Elsevier), 77, 103158.		
7	KCT, S., Turpati, Suman. , Siddiqu, M. A., Jaafar, A. A., Shaik, T. A., & Jha, S. (2025). An Efficient Simulation Framework for 2D LiDAR-Based Navigation and Collision Detection of Autonomous Ground Vehicles to Enhance Safety in Warehouses. Internet Technology Letters (Willey), 8(5), e70114.	ESCI & Scopus	Q3
8	Suman Turpati, B. Geetha Rani, A. V. Prabu, Amrit Mukherjee, Sudan Jha, K. C. T. Swamy.,(2025). Review of 6G Wireless Communication System With Artificial Intelligence, Internet Technology Letters (Willey).	ESCI & Scopus	Q3
9	Swamy, K. C., Devanaboyina, V. R., Nallagarla, R., Shaik, T. A., & Turpati , Suman . (2024). Correlation between rate of TEC index and positioning error during solar flares and geomagnetic storms using navigation with Indian constellation receiver measurements. Journal of Applied Geodesy, (0) (2024).	Scopus	Q2
10	Suman Turpati, S. Manoj Kumar, Madam Yaswanth, T. Ratnakara Reddy "Enhanced Active Function model based Algorithm for Environmental Noise Cancellation." African Journal Of Sciences, Vol 6, Issue 10 2024.	Scopus	Q3
11	Suman Turpti T. Ganesh, V. Lakshmikanth, S. Samiuddin Khadri, "Convergence Analysis of Environmental Echo Noise Cancellation Using Multi-subband Filter Algorithm." African Journal of Sciences , Vol 6, Issue 10 2024.	Scopus	Q3
12	Suman, T., Kaliappan, S., Natrayan, L., & Dobhal, D. C. (2023, March). IoT based Social Device Network with Cloud Computing Architecture. In 2023 Second International Conference on Electronics and Renewable Systems (ICEARS) (pp. 502-505). IEEE .	Scopus	
13	Turpati, S., Richi, S. R. P., Mohammed, T. S., Naveen, K. S., & Ranga, R. S. (2023). Smart Notice Board Using the Internet of Things–Based NODEMCU ESP8266. In Al-Aided IoT Technologies and Applications for Smart Business and Production (pp. 211-224). CRC Press.	Scopus	Q4
14	Suman, T., Maheswari, K. U., Swamy, K., & Moram, V. (2022). Complex Frequency Block Domain Analysis and Efficient Implementation for Computational Active Noise Control. Mathematical Statistician and Engineering Applications , 71(4), 1808-1824.	Scopus	Q4
15	Suman, T., & Venkatanarayana, M, (2020)"An Efficient Simulink Model for Active Noise Control using Filtered-x Adaptive Algorithms", published on Journal of Advanced Research in Dynamical & Control Systems, a SCOPUS	Scopus	Q4

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Index Journal, Vol. 12, Issue-03, June 2020,

16	Suman, T., & Venkatanarayana, M, (2019) "Improved Convergence Rate with Modified Variant LMS Algorithms" published on Journal of Advanced Research in Dynamical & Control Systems, a SCOPUS Index Journal, Vol. 11, Issue-07, June 2019, ISSN: 1943-023X.	Scopus	Q4
17	Suman, T. , & Venkatanarayana, M, "Comparison Study of Active Noise Cancellation" published on Journal of Emerging Technologies and Innovative Research (JETIR), a UGC Journal (Journal No. 63975), Vol. 6, Issue-02, Feb 2019 , ISSN-2349-5162.	UGC	
18	T.Suman , "A Piecewise Linear Companding Transform For Papr Suppression Of Ofdm Signals With Companding Distortion Mitigation" International Journal of Computer Systems (ISSN: 2394-1065), Volume 03– Issue 07, July, 2016 .	UGC	
19	T.Suman , "PAPR Reduction In OFDM System Using Non Linear Companding Algorithm" International Journal of Research In Advanced Engineering Technologies, Id Vol 02-Issue 02, October 2014 .	UGC	

CONFERENCES:

S.No	International and National Conferences	Indexing
	Paper Presented on "Multistage Neural Network and Image Processing	
	Based Plant Leaf Disease Diagnosis". In 2025 International Conference	~
1	on Sustainability, Innovation and Technology (ICSIT-2025) IEEE	Scopus
	conference held on August 22-23 at Symbiosis Institute of Technology,	
	Nagpur.	
	Paper Presented on "SAR Image Colorization for Comprehensive Insight	
	using Deep Learning Model (h) ". In 2025 International Conference on	
2	Sustainability, Innovation and Technology (ICSIT-2025) IEEE	Scopus
	conference held on August 22-23 at Symbiosis Institute of Technology,	
	Nagpur.	
	Paper Presented on "A Secure Image Encryption Using Shannon'S	
	Principles (Confusion And Diffusion) ". In 2025 International Conference	
3	on Sustainability, Innovation and Technology (ICSIT-2025) IEEE	Scopus
	conference held on August 22-23 at Symbiosis Institute of Technology,	Scopus
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	Nagpur.	



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Paper Presented on "Features Fusion For Natural Tone - Mapped image quality Evalution using DI-Cnn". In 2025 International Conference on

- 4 Emerging Trends in Engineering Technology and Management Scopus (ICETM-2k25) held on April 11-12 2025 at Viswam Engineering College, Madanapalle.
 - Paper Presented on "IoT based Social Device Network with Cloud
- 5 Computing Architecture". In 2023 Second International Conference on Scopus Electronics and Renewable Systems (ICEARS) IEEE Conference.
- Paper Presented on "An Efficient Simulink Model for Active Noise Control using Filtered-x Adaptive Algorithms" in ICASET-2020 to be held at Scopus K.S.R.M. College of Engineering, on January 5-6 2020.
- Paper presented on "Active Noise Control using Active Function Thresholdbased FxRLS Algorithm" in **ICSPCOMSD-2019** to be held at Malla Reddy **Scopus** College of Engineering for Women, Hyderabad, on 6th-7th December 2019.
- Paper Presented on "Improved Convergence Rate with Modified Variant LMS Algorithms" in International Conference On Power, Computer, Communications And Artificial Intelligence (ICPCCAI 2019), held at JECRC University, Jaipur, on 19-21, April 2019.
- Paper Presented on "Comparison Study of Active Noise Cancellation" in

 International Conference on Advances in Signal Processing, Power,

 Embedded, Soft Computing, Communication, and Control Systems,

 (ICSPECS-2019) held at GPRCE, Kurnool, on 11-12 Jan 11-12, 2019.

Patents:

1. Title: Intelligent wearable sensor for covid-19 patient monitoring (Indian Patent)

Patent No.: 202241010355A Publication Date: 29/04/2022

Journal No.: 17/2022



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2. Title: Surveillance Drone for Security Applications

Patent No.: 202241026079

Publication Date: 22/05/2022

CERTIFICATIONS:

✓ NPTEL ONLINE CERTIFICATION for successfully completing the course "INTRODUCTION TO INTERNET OF THINGS".

- ✓ NPTEL ONLINE CERTIFICATION for successfully completing the course "THE JOY OF COMPUTING USING PYTHON".
- ✓ NPTEL ONLINE CERTIFICATION for successfully completing the course "PRINCIPLES OF SIGNALS AND SYSTEMS".
- ✓ NPTEL ONLINE CERTIFICATION for successfully completing the course "DIGITAL IMAGE PROCESSING".
- ✓ Course Complete Certificate in MATHWORKS on MATLAB Onramp.

Personal Profile:

Father's Name : T SUNKANNA

Date of Birth : 09-06-1989.

Present Address : Associate Professor. Dept of ECE, KVSRIT, Kurnool.

Permanent Address : #78-8-A-12-2-61-A, New Krishna Nagra, Kurnool Dt,

Andhra Pradesh-518002

E-mail : <u>sumanturpati@gmail.com</u> / turpatisuman87@gmail.com

Mobile Number : +91-9703204904.

Declaration:

I hereby declare that the above mentioned details are true to the best of my knowledge.

Dr Suman Turpati

Associate Professor in ECE Dr KVSRIT, KRNOOL-518218.