

Dr.M.V. SRUTHI

Associate professor, Dept of ECE,
Dr. K.V. Subba Reddy Institute of Technology, Kurnool
518218, A.P, India.

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Career Objective:

Innovative educator and researcher with 15 years of expertise in Advanced digital Image Processing, Networks, and Digital Electronics, driven to transform complex concepts into practical learning experiences. Committed to blending research with teaching, inspiring students to explore cutting-edge technologies, and advancing institutional growth through collaborative initiatives. Seeking to channel creativity, leadership, and technical depth into shaping future-ready professionals and pioneering research outcomes. Taken on the responsibility of setting question papers for several respected government universities and autonomous institutions.

Academic profile:

S. No.	Qualification	University/Institution	Specialization	Percent age of marks	Year of award
1.	Ph.D. (E.C.E)	Jawaharlal Nehru Technological University Anantapuramu, A.P – 515002	Advanced Methods in Digital Image Processing		2017
2.	M. Tech (E.C.E)	Jawaharlal Nehru Technological University Anantapuramu, A.P – 515002	Digital Systems & Computer Electronics	82%	2010
3.	B.Tech (E.C.E)	Jawaharlal Nehru Technological University Anantapuramu, A.P – 515002	Electronics & Communication Engineering	69.5%	2007
4.	Intermediate	Narayana Jr. College For girls, Anantapur 515001	Mathematics, Physics, Chemistry	88%	2003
5.	SSC	Good Shepherd English Medium High School, Anantapur 515001	SSC	86%	2001

Details of Doctoral Thesis:

Area of Thesis work: Advanced Digital Image Processing

**Title of Thesis: REMOVAL OF MOTION ARTIFACTS AND MULTIMODALITY
REGISTRATION OF MEDICAL IMAGES**

Supervisor: Dr. K. SOUNDARARAJAN

Year of Submitted Thesis: 2017 (April)

Year of award of Ph.D : 2017 (November)

Professional Body Membership:

- MISTE
- Senior IEEE member
- IEEE Signal Processing Society
- WIE IEEE
- **Scopus ID: 59175895400**
- **Google scholar ID: <https://scholar.google.com/citations?user=3JmpYowAAAAJ&hl=en>**

Ratification:

Ratified as Assistant Prof in Dr.K.V. Subba Reddy institute of technology, Kurnool Andhra Pradesh from JNTUA Anantapur.

Experience / Field of Interest:

Designation	Institution	Duration	Location
HOD & Associate Professor (ECE)	Dr. K. V. Subba Reddy Institute of Technology	June 2017 – Present	Dupadu, Kurnool (A.P.)
Assistant Professor (ECE)	P.V.K.K Institute of Technology	2 Years	Anantapur (A.P.)
Assistant Professor (ECE)	Geetanjali Institute of Technology	5 Years	Kurnool (A.P.)

Subjects taught:

- COMPUTER ORGANIZATION
- COMPUTER NETWORKS
- CYBER SECURITY
- EMBEDDED SYSTEMS

- DATA COMMUNICATION NETWORKS
- MICROPROCESSOR&MICROCONTROLLERS
- MICROPROCESSOR AND INTERFACING
- DIGITAL LOGIC DESIGN
- OPERATING SYSTEMS
- ARTIFITICIALINTELLIGENCE
- ELECTRONIC DEVICES AND CIRCUITS
- DIGITAL IMAGE PROCESSING
- WIRELESS MOBILE COMMUNICATION
- CELLULAR MOBILE COMMUNICATION
- RADAR SYSTEM
- UNIX OS
- INTELLECTUAL PROPERTY RIGHTS
- DESIGN THINKING INNOVATION

Responsibilities held:

- Worked as Head of the Department (ECE), handling both academic and administrative responsibilities.
- Planned workload distribution, prepared timetables, and mentored faculty members.
- Coordinated with BOS, University, NBA, and NAAC for curriculum, syllabus, and accreditation activities.
- Served as:
- Coordinator for Departmental Technical Seminar
- Coordinator for College Academic Committee
- Project Coordinator
- NBA Coordinator for the Department
- Handled NAAC Department Work
- Coordinator for College Women Empowerment Cell
- Worked as Member of Board of Studies (BOS) in the year 2023.
- Guided students in projects, internships, higher studies, and placements.
- Managed departmental budget, laboratories, and infrastructure improvements.
- Organized seminars, workshops, FDPs, technical fests, and industry expert lectures.
- Encouraged research publications, patents, and student innovation in IoT, VLSI, and Embedded Systems.
- Acted as Speaker for Induction Program organized for first-year students.
- Monitored teaching–learning process, attendance, internal assessments, and examinations.

- Built industry collaborations through MoUs, industrial visits, and internship programs
- Established Microprocessors & Microcontrollers (MPMC) Laboratory and prepared Lab Manuals for practical learning
- Maintained JNTUA/AICTE affiliation procedures

Skills:

- ❖ MATLAB
- ❖ Languages: C, Verilog, MATLAB
- ❖ C, C++ programming.
- ❖ MASM, DOSBOX
- ❖ Tcl script

PATENTS: 05

1. Patent published on the topic **“System and Method for Removing Motion Artifacts and Multimodality Registration of Medical Images”** Dt: 05.10.2019, AFR NO **201941050842.**
- 2, Patent published on the topic **“A Novel method and system for human recognition using Difference depth motion and convolution neural networks”** Ref no/APP no
- 3.Design grant: Design **Number:** 408925-001 **Filing Date:** 27/02/2024 18:42:00 **Article Name:** APPARATUS TO SEPARATE PROTIENS AS PER MOLECULE **Class:** 24-02-MEDICAL INSTRUMENTS, INSTRUMENTS AND TOOLS FOR LABORATORY Close
4. **Title of the invention: deep crop shield system with IOT technology surveillance auto affusion.** the patent office journal no. 10/2024 dated 08/03/2024.
5. **Design Patent** titled *“IoT-Enabled Remote Monitoring Facemask Vending Machine”* (Design Application No: 450614-001, Journal No: 33/2025, Filing Date: 25th April 2025, Journal Date: 15th August 2025).
6. Channel estimation in Intelligent Reflecting Surfaces for high level Generation Networks Inventors: Dr.M.V. Sruthi, Publication date:9/26/9/25, Patent office: IN, Patent number :202541083082

Papers Published:

1. “High speed encryption and decryption of blowfish” –NANOT10 the **International Conference** on Novel Applications of Nano technology organized by Arunai Engineering college, Tiruvannamalai-Tamil Nādu.
2. “High speed soc design of blowfish cryptographic algorithm” Y2k10 National Conference organized by Nova college of Engineering, Hyderabad.

3. M.V.Sruthi, Accurate Multimodality Registration of medical images International Journal of Engineering Research and Development ISSN: 2278-067X, Volume 1, Issue 3 (June 2012), PP.33-36
4. M.V.Sruthi, Accurate correction of Motion Artifacts in Medical Image International Journal of Computer Applications and Technology (2278 - 8298) Volume 1– Issue 1, 2012, 1-3
5. M.V. Sruthi, Removal of Motion Artifacts in Brain Images using Different Filtering Techniques, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering Vol. 4, Issue 11, November 2015
6. M.V.Sruthi, Enhanced Multimodality Image Registration Based On Mutual Information IOSR Journal of VLSI and Signal Processing (IOSR-JVSP) Volume 6, Issue 1, Ver. I (Jan. -Feb. 2016), PP 09-12 e-ISSN: 2319 – 4200, p-ISSN No.: 2319 – 4197
7. M. V. Sruthi, Improved approach for removing the motion artifacts using particle swarm optimization technique, IOSR Journal of Electronics and Communication Engineering (IOSR-JECE) e-ISSN: 2278-2834,p- ISSN: 2278-8735.Volume 11, Issue 3, Ver. II (May-Jun .2016), PP 20-25 www.iosrjournals.org
8. M.V.Sruthi, An innovative approach for multimodality registration of brain images using particle swarm optimization National Conference on Emerging Trends in Information, Digital and Embedded Systems (NC'e-TIDES-2017)
9. Dr.M.V. SRUTHI,” A NEW IMAGING ARTEFACT REMOVAL FROM MRI OF BRAIN IMAGE” International Journal of Research, Volume 7, Issue XII, December/2018, ISSN NO:2236-6124
10. Dr. M.V.Sruthi, Minimization of Streak Artifacts in CT Images Using Particle swarm optimization based Algorithm, IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)ISSN: 2278-2834,p- ISSN: 2278-8735.Volume 13, Issue 6, Ver. I (Nov.-Dec. 2018), PP 54-58 www.iosrjournals.org
11. Color images authentication and copyright protection in blind dual watermarking by Dr.M.V.Sruthi associate professor department of ECE Dr.K.V.Subba Reddy institute of technology, Kurnool. Journal of engineering sciences, Vol 10,Issue 8, Aug /2019 ISSN NO:0377-9254
12. Dr. M.V Sruthi, Associate Professor, Dept. of ECE, Dr.K.V. Subba Reddy Institute of Technology: MOS Implementation of 45nm Technology based Temporarily Fine

grained sleep Technique for Sub threshold parallel architecture, JASC: Journal of Applied Science and Computations Volume 5, Issue 11, November/2018 ISSN NO: 1076-5131.

13. Dr.M.V.SRUTHI, Associate Professor ,KVSRTI, Kurnool Medical image fusion using adaptive box filtering and ns transform ,JES Journal of engineering sciences, vol 10,issue 11,Nov/2019,ISSN NO:0377-9254,www.jespublication.com.
14. Dr. M.V.SRUTHI, Associate Professor, Department Of ECE, Dr.K.V.Subba Reddy Institute of Technology, Dupadu, Kurnool. Implementation of a modified decision-based median filter algorithm for image processing applications. Vol 13 Issue 12,2022
15. Journal of Engineering Sciences.
16. Dr. M.V.SRUTHI, Associate Professor, Department Of ECE, Dr.K.V.Subba Reddy Institute of Technology, Dupadu, Kurnool High-performance ternary designs using graphene nanoribbon transistors, <https://doi.org/10.1016/j.matpr.2023.07.170> 2214-7853/Copyright _ **2023 Elsevier** Ltd. All rights reserved.
17. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V.Subba Reddy Institute of Technology, Dupadu, Kurnool, Extending 3-bit burst error correction codes with quadruple adjacent error correction, Organizational development Journal, we: www.Journalodj.com/, ISSNNO:08889-6402.
18. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V.Subba Reddy Institute of Technology, Dupadu, Kurnool, ELDERLY FALL DETECTION AND LOCATION TRACKING SYSTEM USING HETEROGENEOUS NETWORKS, Journal of Engineering Sciences, Vol 14 Issue 05,2023, ISSN:0377-9254,page 145-151
19. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V.Subba Reddy Institute of Technology, Dupadu, Kurnool **INTERNATIONAL JOURNAL OF PROGRESSIVE RESEARCH IN ENGINEERING MANAGEMENT AND SCIENCE (IJPREMS)** Vol. 04, Issue 04, April 2024, pp: 1453-1459. PERSON/ WHEELCHAIR FALL DETECTION.
20. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V. Subba Reddy Institute of Technology Title of the invention: DEEP CROP SHIELD SYSTEM WITH IOT TECHNOLOGY SURVEILLANCE AUTO AFFUSION Certificate Number: ICCICCT-061_3 2nd International Conference on Challenges in Information, Communication and Computing Technology (ICCICCT - 2024)
21. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V.Subba Reddy Institute of Technology **AUTOMATED DETECTION OF WHITE BLOOD CELL CANCER IN BONE MARROW MICROGRAPHS BY THE USE OF CONVOLUTIONAL NEURAL NETWORKS** ISSN NO: 1073 - 7774 Volume 14 Issue 08 Aug 2023 <https://jcdponline.org/previousissue.php?id=98>.

22. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V.Subba Reddy Institute of Technology **EXPLORING THE USE OF SYMMETRIC ENCRYPTION FOR REMOTE USER- AUTHENTICATION IN WIRELESS NETWORKS** ISSN NO: 979-8-3503-1912-5/23/\$31.00 ©2023 IEEE <https://ieeexplore.ieee.org/Xplore/home.jsp>
23. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V.Subba Reddy Institute of Technology **INVESTIGATING THE METHODS USED BY CRIMINALS TO TARGET SPECIFIC PARTS OF IOT NETWORKS** Applied Laser Technology, Vol. 30, No.4,Nov (2023), pp.01–07, <https://appliedlasertechnology.com/admin/uploads/ece%209.pdf>
24. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V. Subba Reddy Institute of Technology **COMBINING DEEP(AI) AND HANDCRAFTED IMAGE FEATURES FOR MRI BRAIN SCAN CLASSIFICATION**, Material Science And Technology, <http://materialsciencetech.com/mst>
25. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V. Subba Reddy Institute of Technology **A USER-CENTRIC MACHINE LEARNING FRAMEWORK FOR CYBER SECURITY OPERATIONS CENTER**, Organization Development Journal, ISSN:0889-6402 DOI:10.56870/f0959.2022.50289 Listed in Scopus
26. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V. Subba Reddy Institute of Technology **DATA SECURITY APPROACH ON CYBER CRIME WITH WEB VULNERABILITY**, Material Science And Technology, DOI:10.10543/f0299.2021.41671, <http://materialsciencetech.com/mst/uploads/2021-41671.pdf>
27. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V. Subba Reddy Institute of Technology **IMPLEMENTATION OF MULTIBIT MULTIPLEXER USING MAJORITY LOGIC BASED QCA** Journal Of Resource Management & Technology , ISSN 0745-6999, Volume 12, Issue 4, 2021, <https://portal.issn.org/resource/ISSN/0745-6999>
28. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V. Subba Reddy Institute of Technology **DEVELOPMENT OF INDOOR AIR QUALITY SUPERVISION SYSTEMS USING ZIGBEE WIRELESS NETWORKS** Turkish Journal Of Computer And Mathematics Education Vol.11 No.03 (2020),2312-2315, <https://turcomat.org/index.php/turkbilmat>
29. Dr. M.V. SRUTHI, Associate Professor, Department Of ECE, Dr.K.V. Subba Reddy Institute of Technology **Improved Face Recognition Using Optimized Linear Collaborative Discriminant Regression Classification With Hybrid Algorithm** *IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE)* e-ISSN: 2278-1676, p- ISSN: 2320-3331, Volume 19, Issue 3 Ser. 1 (May. – June. 2024), PP 20-31 www.iosrjournals.org
30. Presented a research paper titled “*Effective Adaptive Multilevel Modulation Technique – Free Space Optical Communication*” at the **6th International Conference on Computer & Communication Technologies (IC3T 2024)**, organized by Dept. of AI & ML, Mohan Babu University, Tirupati (**DST SERB Sponsored**), held on **4th–5th October 2024**.
31. “*Novel Method of Highly Secured Image Encryption Technique*”, **Journal of Information Systems Engineering and Management (JISEM)**, Vol. 10, Issue 23s, 2025. e-ISSN: 2468-4376. **Indexed in Scopus**
32. *Advanced Deep Learning Based Diagnostic Framework for Lung Cancer Diagnosis*” (Paper ID–7897), presented at the **16th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2025)**, organized by IIT

Indore, in association with IEEE Electronics Packaging Society and AICTE, held July 6–11, 2025

- 33. Exploring the Use of Symmetric Encryption for Remote User-Authentication in Wireless Networks** Sruthi, M.V 2023 3rd International Conference on Smart Generation Computing Communication and Networking Smart Gencon 2023Open source preview, 2023
- 34. An Area-Optimized AES Cryptographic Core Using Advanced VLSI Low-Power Techniques** "International Conference on Innovation in Engineering and Science(ICIES 2025)" - Jointly Organized by Post Graduate Department of Electronics, Little Flower College (Autonomous), Guruvayur, Kerala, India & Global Conference Hub, Combatore, Tamil Nadu, India on 27.09.2025 & 28.09.2025

Workshops / Faculty Development Programs Attended

- Participated in a **2-Day FDP on MATLAB**, organized by Dept. of ECE, St. Johns College of Engineering & Technology, Yemmiganur.
- Participated in a **One-Week FDP on Advances in Next Generation Wireless Communications & Networks**, organized by Dept. of ECE, GPREC – Kurnool.
- Participated in a **5-Day FDP on Recent Advances in Electrical Engineering**, organized by Dept. of EEE, Gates Institute of Technology, Gooty.
- Participated in a **5-Day National Level FDP on Current Research Trends in Artificial Intelligence and Machine Learning**, organized by Gates Institute of Technology.
- Participated in a **5-Day International FDP on Unveiling Emerging Trends in Artificial Intelligence and Data Renaissance**, organized by Dr. K.V. Subba Reddy Institute of Technology (A), Kurnool.
- Attended a **One-Week FDP on Creativity, Innovation & Design Thinking**, organized by Dept. of ECE, MIT Moradabad, U.P.
- Attended an **IEEE Organized Workshop**.
- Successfully completed a **Two-Week FDP on Practical English: Tenses**, organized by Satya Institute of Technology and Management & Satya Degree and PG College, Vizianagaram.
- Participated in a **5-Day Faculty & Student Development Program me on The Role of Science and Spirituality for a Harmonious and Fulfilling Human Community**, organized by Research Foundation of India & St. Paul Institute of Professional Studies, Indore

Functional Projects:

- Number of Projects Guided at Under-Graduate Level: 50
- Number of Projects guided at post-Graduate level : 15

Various Projects Guided in the following Areas:

UNDER GRADUATE LEVEL (B.TECH)

Data Communication Networks
Wireless Communications
Vlsi
Artificial Intelligence
Image Processing
Network Security

POST GRADUATE LEVEL (M.TECH)

Communication Systems
Network Security
Image Processing
Mobile Communications
VLSI

Awards / Achievement:

1. ISTE Life Membership
2. Senior IEEE member
3. APTI WOMEN FORUM jury member 2023
4. Recognized as Research Supervisor by JNTUA, Anantapur.
5. Got Paper reviewer appreciation certificate in Social and sustainable innovations in technology & engineering SASI ITE-2024
6. Serving as an Editorial Board Member of the International Journal of Science, Technology and Society (IJSTS), contributing to the review and advancement of quality research publications.

Text Book Published:

1. Published a Text Book: Digital Image processing for real time applications
(Groove Techno IT Solutions Private Limited).

Personal Profile:

Name : Dr. M.V. Sruthi
Father's Name : Dr. M.V. Chandra Sekhar
Husband Name : M. Rajesh Kumar
Gender : Female
Nationality : Indian
Permanent address : Flat no :201
Sri Sannidhanam residency Ashok
Nagar
Kurnool.


Declaration:

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Date:

Place:

Dr. M.V. Sruthi


Your's sincerely
Dr.M.V.Sruthi
Associate Professor & HOD
Dr. K.V.Subba Reddy
Institute of Technology, Kurnool.