

BIO-DATA



I. Personal Information

Name : **SIVAPPAGARI CHANDRA MOHAN REDDY**

Designation : **PROFESSOR**

Address for Communication: **Professor & Head,**

Department of Electronics and Communication Engineering,
JNTUA College of Engineering Pulivendula,
Jawaharlal Nehru Technological University Anantapur (JNTUA),
Pulivendula – 516 390, Y.S.R. (Dist), Andhra Pradesh, India.

Phone : (P) 9441023800

E-mail : cmr.ece@jntua.ac.in, email2cmr@gmail.com

Gender : Male

Nationality : Indian

Religion : Hindu

Caste : General (Reddy)

Father's Name : S. VENKATA NARAYANA REDDY

Date of Birth : 02/05/1978 (2nd May 1978)

Family : Wife: Smt. Sivappagari Radha – Home Maker;
Daughter: Sivappagari Bhavya Sree Reddy – Studying;
Son: Sivappagari Renesh Hariharan Reddy – Studying;

II. Education Qualifications:

Exam Passed	Institution/University/Board	Year of Passing	% Marks	Division
Ph.D (Electronics and Communication Engineering)	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh, India	2014 (January)	--	--
M.E. (Digital Techniques and Instrumentation)	S.G.S. Institute of Science and Technology, Indore / Rajiv Gandhi Proudयोगiki Vishwavidyalaya, Bhopal, Madhya Pradesh, India	2003 (May)	77.05	Distinction
B.Tech (Electronics and Communication Engineering)	V.R. Siddhartha Engineering College, Vijayawada / Nagarjuna University, Guntur, Andhra Pradesh, India	2001 (April)	76.39	Distinction
Diploma (Electronics and Communication Engineering)	Government Polytechnic, Proddatur/ State Board of Technical Education & Training, Andhra Pradesh.	1997 (April)	82.10	Distinction

S.S.C (10 th)	Board of Secondary Education, Hyderabad	1994 (March)	81.67	First Class
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Ph.D. Dissertation Title: Development of ARM processor based embedded system and implementation of high accuracy resolver to digital converter using modified angle tracking observer technique for Robot Applications

III. Professional Experience:

Sl. No.	Name & Address of the employer/ institution	Period of service	Designation of post held and scale of pay	Nature of work and level of responsibility
1.	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh	15-04-2019 to Till the date	Professor Level 14 in UGC 7 th PRC with a pay of Rs.1,44,200/-	Teaching, Research and Administration
2.	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh	15-04-2016 to 14-04-2019	Associate Professor Level 13A in UGC 7 th PRC with a pay of Rs.1,31,400/-	Teaching, Research and Administration
3.	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh	15-04-2013 to 14-04-2016	Assistant Professor UGC 6 th PRC with a scale of 15600-39100 + AGP8000	Teaching, Research and Administration
4.	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh	15-04-2008 to 14-04-2013	Assistant Professor UGC 5 th PRC with a scale of 10000-325-15200	Teaching, Research and Administration
5.	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh	16-12-2006 to 14-04-2008	Assistant Professor UGC 5 th PRC with a scale of 8000-275-13500	Teaching, Research and Administration
6.	Gayatri Vidya Parishad College of Engineering, Visakhapatnam, Andhra Pradesh.	15-04-2003 to 15-12-2006	Assistant Professor UGC 5 th PRC with a scale of 8000-275-13500	Teaching and Administration
7.	S.G.S. Institute of Science and Technology, Indore, Madhya Pradesh.	16-08-2002 to 14-04-2003	Lecturer UGC 5 th PRC with a scale of 8000-275-13500	Teaching
8.	S.G.S. Institute of Science and Technology, Indore, Madhya Pradesh.	06-08-2001 to 16-08-2002	Graduate Research Assistant AICTE GATE Stipend of Rs. 2500/-	Teaching

IV. Administrative Experience:

Sl. No.	Name of the Administrative Post Held	Organization	Period of Service	Experience	Nature of Work
1.	Head, Department of ECE	JNTUA College of Engineering, Pulivendula, Andhra Pradesh	21-02-2026 to To till date	---	Teaching and administration
2.	Officer In- charge of Ac- creditations and Ranking	JNTUA College of Engineering, Ananthapuramu, Andhra Pradesh	01-09-2024 to 20-02-2026	1 Year 6 Months	Responsible to im- plement strategic plan to ob- tain/maintain ac- creditation and ranking in coordi- nation with various departments of the college.
3.	Coordinator, Samarth e-Governance	Andhra Pradesh State Council of Higher Education (APSCHE), Mangalagiri, Guntur (Dist).	07-06-2024 to 20-08-2024	2 Months	Responsible for successful imple- mentation of Sa- marth e-Gov Soft- ware in the state of Andhra Pradesh Universities.
4.	Academic Of- ficer, Quality Assur- ance Cell	Andhra Pradesh State Council of Higher Education (APSCHE), Mangalagiri, Guntur (Dist).	03-01-2024 to 20-08-2024	8 Months	Implementing vari- ous activities in the state of AP as di- rected by APSCHE to improve Quality in AP Higher Edu- cation.
5.	Head, Department of ECE	JNTUA College of Engineering, Ananthapuramu, Andhra Pra- adesh	07-07-2023 to 02-01-2024	6 Months	Teaching and administration
6.	Deputy Control- ler of Examina- tions	JNTUA College of Engineering, Ananthapuramu, Andhra Pra- adesh	15-02-2022 to 15-07-2023	1 Year 5 Months	Teaching and Con- duct of all academ- ic examinations and related evaluation processes
7.	Officer Incharge of Hostels	JNTUA College of Engineering, Ananthapuramu, Andhra Pra- adesh	24-02-2022 to 22-08-2023	1 Year 6 Months	Teaching and Overall manage- ment, administra- tion, and welfare of

					students residing in the hostels
8.	Vigilance Officer, JNTUA	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh	06-08-2021 to 26-05-2025	3 Years 9 Months	Responsible for clearing ACB and Vigilance and Enforcement Cases of JNTUA.
9.	Controller of Examinations	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh	29-04-2021 to 04-02-2022	9 Months	Teaching and Entire lifecycle of academic Examinations of the University
10.	Nodal Officer, Legal Cell of JNTUA	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh	12-02-2021 to 02-01-2024	2 Years 11 Months	Responsible for monitoring the draft counters in coordination with University Standing Counsel/Govt. Pleader, APSCHE and Registrar
11.	Additional Controller of Examinations	Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu, Andhra Pradesh	19-06-2019 to 29-04-2021	1 Years 11 Months	Teaching and Conduct of all academic examinations and related evaluation processes
12.	Deputy Controller of Examinations	JNTUA College of Engineering, Pulivendula, Andhra Pradesh	17-08-2017 to 18-06-2019	1 Year 10 Months	Teaching and Conduct of all academic examinations and related evaluation processes
13.	Head, Department of ECE	JNTUA College of Engineering, Pulivendula, Andhra Pradesh	09-01-2013 to 17-08-2017	4 Years 8 Months	Teaching and administration
14.	Officer Incharge of Hostels	JNTUA College of Engineering, Pulivendula, Andhra Pradesh	21-01-2009 to 07-07-2010 & 03-10-2013 to 19-01-2015	2 Years 8 Months	Teaching and Overall management, administration, and welfare of students residing in the hostels
15.	Officer Incharge of Library	JNTUA College of Engineering, Pulivendula, Andhra Pradesh	11-08-2010 to 10-02-2011	6 Months	Teaching and Planning, development, organization, and

					administration of the Library and Information services
16.	Deputy Warden for Boys Hostel	JNTUA College of Engineering, Pulivendula, Andhra Pradesh	29-10-2007 to 11-08-2010	2 Years 10 Months	Teaching and Overall management, administration, and welfare of students residing in the hostels

V. Administrative Responsibilities Held and contributions made:

1. Academic Officer, Quality Assurance Cell (QAC), Andhra Pradesh State Council of Higher Education (APSCHE) (January 2024 – August 2024)

During my tenure as Academic Officer, Quality Assurance Cell (QAC), Andhra Pradesh State Council of Higher Education (APSCHE) from January 2024 to August 2024, I contributed in reshaping the higher education landscape of Andhra Pradesh. The initiatives of APSCHE through QAC during this period led to the conceptualization and successful implementation of several path-breaking reforms focused on quality, inclusivity, and innovation.

- ✓ Implementation and Monitoring of Quality Assurance Framework: Coordinated the execution of the APSCHE Quality Assurance Framework (QAF) for affiliated colleges and universities, assisted in the preparation and review of institutional quality reports, ensuring alignment with NAAC and UGC standards, supported the conduct of internal quality audits and facilitated mentoring for institutions seeking NAAC accreditation or re-accreditation.
- ✓ Data Management and Reporting: Supported the collection, verification, and analysis of data related to institutional quality indicators, contributed to preparation of state-level analytical reports on quality benchmarks and accreditation status of HEIs in Andhra Pradesh.
- ✓ Collaboration and Communication: Acted as a liaison between APSCHE and university IQACs to ensure effective dissemination of quality initiatives, assisted in organizing review meetings, documentation, and follow-up communications with stakeholders.
- ✓ Support for NAAC Accreditation and Ranking Activities: Guided colleges in data preparation, metric understanding, and documentation for NAAC accreditation, organized several workshops and training sessions on quality parameters, AQAR preparation, and SSR submission, contributed to state-level coordination of NIRF participation and performance analysis.
- ✓ Capacity Building and Training Programs: Assisted in planning and execution of capacity-building programs for college faculty and IQAC coordinators on quality en-

hancement, digital initiatives, and academic reforms, collaborated in the development of resource materials and training modules for institutional quality improvement.

- ✓ Academic Reforms and Policy Support: Provided inputs for curriculum reforms, outcome-based education (OBE) implementation, and credit framework alignment with the National Education Policy (NEP) 2020, Participated in the review of academic and administrative audit (AAA) formats for universities and colleges.

These efforts resulted in a measurable improvement in academic reputation and institutional credibility at the National level.

2. Head of ECE Department, JNTUA CE, Pulivendula (January 2013 – August 2017) & JNTUA CE, Anantapur (July 2022 to January 2024)

As the Head of the Department of Electronics and Communication Engineering (ECE), I played a key leadership role in strengthening the academic and research ecosystem of the department through quality enhancement, infrastructural development, and industry collaboration.

- ✓ Accreditation of UG Program (ECE) for Three Years:
 - Successfully coordinated the NBA accreditation process and the department was accredited by NBA for three (3) years for the undergraduate program in Electronics and Communication Engineering.
 - Led the preparation of Self-Assessment Reports (SAR), ensured compliance with accreditation criteria, and facilitated on-site evaluation visits.
 - Implemented continuous quality improvement measures in curriculum, assessment methods, and documentation processes, resulting in the program receiving three years of accreditation.
- ✓ Implementation of TEQIP-II Project:
 - Actively involved in the Technical Education Quality Improvement Programme (TEQIP-II) as departmental coordinator.
 - Utilized project funds of Rs. 30 Lakhs effectively for the upgradation of laboratory infrastructure, faculty development programs, and student skill enhancement initiatives.
 - Organized workshops, FDPs, and student innovation activities under TEQIP-II to promote academic excellence and employability.
- ✓ Establishment of Advanced Laboratories:
 - Established and upgraded several state-of-the-art laboratories in emerging domains such as Embedded Systems, Digital Signal Processing, Communication Systems, and Internet of Things (IoT).
 - Facilitated procurement of modern equipment and software tools, providing students and researchers with hands-on exposure to advanced technologies.
 - Strengthened the research environment by promoting mini-projects and interdisciplinary lab-based activities.
- ✓ Academic–Industry Collaboration through MoUs:

- Initiated and executed Memoranda of Understanding (MoUs) with reputed industry partners including Foundation for Innovation and Collaborative Education (FICE) – Intel® University Program Partner; and EdGate Technologies Private Limited, Bangalore – Texas Instruments India University Program Partner.
 - Established Texas Instruments Centre of Excellence (CoE) labs in the domain of Linear IC Applications and Embedded Systems.
 - Introduced Texas Instruments Innovation Lab and EdGate Academic Programs to enhance experiential learning through industry-driven projects.
 - Organized various training programs/workshops/FDPs in collaboration with Industry in the emerging areas like VLSI, Signal Processing, IoT, etc.
 - Encouraged students and faculty to participate in industry certification programs, internships, and innovation challenges.
- ✓ Curriculum Design and Development (UG & PG)
- Played a pivotal role in curriculum design and revision for both Undergraduate (B.Tech – Regulation 13 & Regulations 17) and Postgraduate (M.Tech – Regulation 17) programs in ECE.
 - Introduced new electives and laboratory courses focusing on current trends like IoT, VLSI and Wireless Communication.
 - Contributed to the development of course outcome mappings, assessment rubrics, and continuous evaluation mechanisms.

Through these initiatives, the ECE Department achieved significant progress in academic quality, industry linkage, and student competence, aligning with institutional and national goals for excellence in engineering education.

3. Controller of Examinations (PG) and Additional Controller of Examinations @ JNTUA, Deputy Controller of Examinations @ JNTUA CE, Pulivendula & JNTUA CE, Anantapur

As the Controller of Examinations (Post Graduation) and Additional Controller of Examinations at J.N.T. University Anantapur (JNTUA) and Deputy Controller of Examinations at JNTUA CE – Anantapur & JNTUA CE – Pulivendula, I contributed significantly to strengthen the university's/College's examination system through reforms in planning, execution, evaluation, and administration of postgraduate and undergraduate examinations. My major contributions include the following:

- ✓ Efficient Planning and Conduct of Examinations
- ✓ Examination Reforms and Process Automation
- ✓ Coordination of Evaluation and Result Processing
- ✓ Maintenance of Examination Standards and Confidentiality
- ✓ Policy Formulation and Administrative Support
- ✓ Coordination with Stakeholders

Through these initiatives, I contributed to establishing a transparent, reliable, and technology-driven examination system that strengthened the academic credibility of JNTU Anantapur and ensured timely support for students and institutions.

4. Officer Incharge of Hostels and Deputy Warden (Boys) @ JNTUA CE, Pulivendula & JNTUA CE, Anantapur

I got an opportunity to be the Officer Incharge of Hostels, JNTUA College of Engineering, Pulivendula in January 2009, even as the College is in the establishing phase. As an administrative head of the College Hostels, it was a challenging task to establish procedures, human resource management and financial management. I contributed significantly to the effective administration, discipline, and overall welfare of hostel residents.

- ✓ Strengthening of Hostel Infrastructure
- ✓ Maintenance of Quality Food and Hygiene Standards:
- ✓ Ensuring Discipline and Student Welfare
- ✓ Implementation of Office Procedures and Administrative Reforms
- ✓ Coordination and Supervision

Through these measures, I contributed to creating a safe, healthy, and student-friendly hostel environment that supports academic focus, personal discipline, and community living

VI. Major Awards Received:

- Elected as **Member**, Electronics and Telecommunication Division, Institution of Engineers – India (**IEI**) **Andhra Pradesh State Centre** from 2024-2026.
- Jawaharlal Nehru Technological University Anantapur (JNTUA) **Certificate of Merit and Appreciation Award** during the **University Appreciation Awards 2023** for the recognition of Patent Granted.
- **Master Teacher Award** from Artificial Intelligence Medical & Engineering Researchers Society for the year **2024**.

VII. Research Profile:

Researcher (Web of Science) ID: I-5947-2015,

ORCID ID: 0000-0002-9236-3946

Google Scholar ID: rLYMeKIAAAAJ

Vidwan ID: 320454

Scopus ID: 57194615280

VIII. Patents:

- **Granted** on “An Artificial Intelligence and IoT based COVID-19 early warning system for Senior Citizens”. (Patent Number: 2020102250, Granted date: 14-10-2020)
- **Published** on “Computer Implemented Method and System for Processing Qualitative Imaging to Detect and Forecast Abnormalities”. (Application Number: 201941033884 A, Publication date: 20/09/2019)

- **Published** on “Waste Treatment Systems: Intelligent Operation of Waste Treatment Systems using AI-Based Programming”. (Application Number: 202041043082, Publication date: 30/10/2020).

IX. Research Projects / Sponsored workshops:

- **Technology Development Board (TDB), Department of Science and Technology (DST), Govt. of India** sponsored Project on “Climate Smart Cultivation of Groundnut and Tomato with Value Addition for Scheduled Cast Population in Anantapur District, Andhra Pradesh” with a grant of **Rs.47.62 Lakh**. (2025-2028), Duration: 36 Months. (**Co-Principal Investigator, On-going**).
- **AICTE Training and Learning (ATAL) Academy** sponsored One Week Faculty Development program on “Exploring the Cutting-Edge World of Chip Design” with a financial amount of **Rs. 3.5 Lakh** from 4th to 9th December 2023. (**Co-Coordinator, Completed**).
- **All India Council for Technical Education (AICTE), New Delhi and JNTUA, Ananthapuramu** sponsored Two Week training program on “Office Procedures for Non-Teaching Staff of JNTUA Constituent Colleges and affiliated Colleges” with a financial amount of **Rs. 5.67 Lakh** from 16th to 30th August 2022. (**Coordinator, Completed**).
- **All India Council for Technical Education (AICTE), New Delhi and JNTUA, Ananthapuramu** sponsored Two Week training program on “Office Procedures for Non-Teaching Staff of JNTUA Constituent Colleges and affiliated Colleges” with a financial amount of **Rs. 5.58 Lakh** from 13th to 25th June 2022. (**Coordinator, Completed**).
- **University Grants Commission (UGC), New Delhi** sponsored Project on “Design and Development of High Accuracy Resolver to Digital Converter using Modified ATO Technique for Motor Control Applications (ROMRP-SERO-ELEC-2015-16-70240)” with a grant of **Rs.3.7 Lakh** (2016-2018), Duration: 24 Months. (**Principal Investigator, Completed**).
- **Technical Education Quality Improvement Program (TEQIP)–II, Govt. of India** sponsored Project on “Department Automation System using Internet of Things” with an amount of **Rs. 1.5 Lakh** (2016), Duration: 6 Months, (**Principal Investigator, Completed**).

X. Technical Papers Published/Presented:

	Journals	Conferences
International	103	40
National	00	02
Total	105	42

- **Google Scholar** Details (October 2025) : **Citations – 392, h-Index–10, i10-Index–10;**
- **Web of Science: Citations: 50, H-index: 3**
- Best paper Award to a Technical Paper Presented in a Conference.

XI. Books Authored and Published:

- Book Titled “IoT based Vehicular Pollution Monitoring and Forewarning System,” published by Lambert Academic Publishing, 2019. ISBN: 978-620-0-00813-8.
- Book Titled “Compressive Sensing for Image Reconstruction using Matched Wavelet,” published by Lambert Academic Publishing, 2018. ISBN: 978-613-9-95539-8.
- Research book on “Techniques to Remove Power Line Interference from ECG Signal: Using Adaptive filter Algorithms,” published by Scholar’s Press, 2017. ISBN: 978-620-2-30216-6.
- Chapter titled “Review of RDC Soft Computing Techniques” in “Sensors, Transducers, Signal Conditioning and Wireless Sensors Networks,” a book series of “Advances in Sensors: Reviews,” Vol.3, published by International Frequency Sensors Association (IFSA) Publishing, 2016. ISBN: 978-84-608-7705-9
- Book Titled “Underwater Telemetry System Using M-ary FSK–Study and Design Issues,” published by Lambert Academic Publishing, 2013. ISBN: 978-3-659-44345-9.

XII. Research Guidance:

- Ph. D’s: **Awarded - 07,** Pursuing: 05
- M. Tech: **Awarded: 55**

XIII. Editor / Reviewer of Journals

1. Editor In-Chief of i-manger’s Journal of Electronics Engineering (2014 to till date)
2. IEEE Sensors Journal
3. WILEY Applied Computational Intelligence and Sot Computing
4. Elsevier Measurements Journal
5. Advances in Science, Technology and Engineering Systems Journal (Scopus indexed)
6. Journal of Engineering Science and Technology
7. i-Manager’s Journal on Embedded Systems
8. i-Manager’s Journal on Electrical Systems
9. Institute of Research and Journals.

XIV. Invited Talks:

- Delivered more than 40 invited talks in various Universities and Colleges in the areas of Signals and Systems, Digital Signal Processing, Integrated Circuits Applications, Embedded Systems.

XV. Workshops/ Summer Schools Attended:

- 1) AMD-Xilinx one day Technical Webinar on “DFX flow using Vivado on AMD FPGA’s & Adaptive SOC’s” organized by CoreEL Technologies (I) Private Limited, Bangalore and AMD-Xilinx on 21st July 2025.
- 2) One day workshop on “NIRF Rankings-2024” organized by Andhra Pradesh State Council of Higher Education (APSCHE) at Sri Padmavati Mahila Visvavidyalayam, Tirupati on 25th November 2023.
- 3) One day workshop on “NIRF Rankings-2024” organized by Andhra Pradesh State Council of Higher Education (APSCHE) at Adi Kavi Nannaya University, Rajamahendravaram on 1st December 2023.
- 4) State Level One day workshop on “Academic Bank of Credits : Procedures, Process and Compliances” organized by Andhra Pradesh State Council of Higher Education (APSCHE) in association with JNTUK, Kakinada on 11th March 2024.
- 5) Two day workshop on “Assessment and Attainment Process of Outcome Based Education (OBE)” organized by Narayana Engineering College, Nellore, Andhra Pradesh from 27th to 28th October 2023.
- 6) One day workshop on “Usage of Open Education Resources in Course Design & Development” organized by Quality Assurance Cell, Andhra Pradesh State Council of Higher Education (APSCHE) on 14th December 2022.
- 7) One day workshop on “India Rankings 2023-National Institutional Ranking Framework (NIRF)” organized by Quality Assurance Cell, Andhra Pradesh State Council of Higher Education (APSCHE) on 28th September 2022.
- 8) One day Training Program on “Microsoft Security, Compliance, and Identity Fundamentals” organized by JNTUA, Ananthapuramu and Microsoft Corporation India in association with Andhra Pradesh State Council of Higher Education (APSCHE) on 22nd June 2022.
- 9) One day Training Program on “Microsoft Azure AI Fundamentals” organized by JNTUA, Ananthapuramu and Microsoft Corporation India in association with Andhra Pradesh State Council of Higher Education (APSCHE) on 21st June 2022.
- 10) One day Training Program on “Microsoft Azure Fundamentals” organized by JNTUA, Ananthapuramu and Microsoft Corporation India in association with Andhra Pradesh State Council of Higher Education (APSCHE) on 20th June 2022.

- 11) AICTE – ISTE sponsored Seven day Orientation/Refresher program on “IoT and Machine Learning” organized by JNTUA College of Engineering, Ananthapuramu, Andhra Pradesh from 3rd to 9th December 2021.
- 12) SERB sponsored Five day online Faculty Development Program on “Recent Trends in Free Space Optics and Its Applications (RFA-2021)” organized by National Institute of Karnataka, Surathkal from 4th to 8th October 2021.
- 13) Two day workshop on “Multilingual and Code Switching ASR Challenges for Low Resource Indian Languages (MUCS) 2021” organized by MUCS on 12th & 13th August 2021.
- 14) Two day Awareness workshop on “Improving Research & Performance Outcomes” organized by Elsevier on 31st August & 1st September 2021.
- 15) Two Week Internship program on “Embedded System Design” organized by EdGate Technologies, Bangalore from 31st August to 11th September 2021.
- 16) Five day Faculty Development Program on “Artificial Intelligence” organized by Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu from 24th to 28th August 2021.
- 17) Two day program on “IEEE Circuits and Systems (CAS) – Bangalore Section Webinar Series” organized by IEEE CAS Society Bangalore Chapter on 31st July & 1st August 2020.
- 18) One Week online Faculty Development Program on “Applications of ML & DL using MATLAB and Python” organized by Sreenidhi Institute of Science and Technology, Hyderabad from 27th to 31st July 2020.
- 19) One day International webinar on “Wireless AI: A New Sixth Sense to Deciphering our World” organized by IEEE Communications Society Students Chapter, Sreenidhi Institute of Science and Technology, Hyderabad on 27th July 2020.
- 20) One day Dr. APJ Abdula Kalam Memorial Global webinar on “Impact of COVID-19 on the development of Rural Economy-Challenges and Opportunities” organized by Lead India Foundation, USA on 27th July 2020.
- 21) TEQIP – III Sponsored One Week Faculty Development Program on “Research Methodology and Data Analysis” JNTUA College of Engineering, Ananthapuramu from 23rd to 28th September 2019.
- 22) Five day program on “Emotional Intelligence at Workplace for Scientist/Technologists” sponsored by Department of Science and Technology (DST), Govt. of India and organized by Centre for Organizational Development (COD) at Hyderabad from 6th to 10th August 2018.
- 23) One day training program “To learn the optimal Mentor solutions for advanced routing techniques; Concurrent design and collaboration methodologies; 3D PCB design; IP

- management; and Problem solving with advanced analysis” organised by Mentor PCB Systems Forum at Hyderabad on 9th June 2017.
- 24) Three day short term Training program on “Paper and Article writing with LATEX” organized by Department of Electrical and Electronics Engineering, JNTUA College of Engineering (Autonomous), Pulivendula during 17th–19th March 2017.
 - 25) Three day workshop on “NBA-SAR Filing & Preparedness for Assessment” organized by Engineering Staff College of India (ESCI), Hyderabad at Goa during 22nd– 24th January 2017.
 - 26) Four day workshop on “Internet of Things (IoT) for Digital World (Hands-on Practical Training)” organized by Engineering Staff College of India (ESCI), Hyderabad at Tirupati during 19th – 22nd December 2016.
 - 27) Five day extensive program on “Vivado and 7 Series Boards” organized by CoreEL Technologies (India) Private Limited, Bangalore during 6th to 10th September 2016
 - 28) One day National Level workshop on “Research Concepts and Incubating ideas on IoT,” organized by University College of Engineering (Autonomous) Kakinada, JNTUK, Kakinada on 3rd August 2016.
 - 29) Two day National Level hands-on Training Program on “MSP 430 & TIVA Microcontrollers” organized by JNTUA College of Engineering, Pulivendula under Texas Instruments University program on 23rd and 24th July 2016.
 - 30) Four day workshop on “Automatic Control Systems Analysis and Design with MATLAB/SIMULINK” organized by Indian Institute of Space science and Technology (IIST), Thiruvananthapuram from 17th May to 20th May 2016.
 - 31) One day workshop on “Patent Drafting and Filing” organized by Engineering Staff College of India (ESCI), Hyderabad at JNTUA College of Engineering, Pulivendula on 23rd April 2016.
 - 32) Three day workshop on “3rd World Summit on Accreditation (WOSA 2016)” organized by National Board of Accreditation (NBA), New Delhi during 18th – 20th, March 2016.
 - 33) Two week Summer School on “Signals and Systems” organized by Indian Institute of Technology Gandhinagar (IITGn), Gandhinagar during June 22nd – July 4th 2015.
 - 34) Five day workshop on “Management Enhancement Capacity Program” organized by Indian Institute of Management Udaipur(IIMU), Udaipur during 8th– 13thJune 2015.
 - 35) One day IEEE workshop on “Awareness on Various Programs for Foreign University Collaborations” organized by Jawaharlal Nehru Technological University Anantapur, Ananthapuramu, on 16th May 2015.
 - 36) Three day hands-on workshop on “Linear Integrated Circuits: A Systems Approach” organized by JNTUA, Ananthapuramu in collaboration with Sapience Consulting under Texas Instruments India University program from 2nd to 4th March 2015.

- 37) Four day workshop on “Formulation of Research & Development Initiatives for Scientists and Technologists” organized by Engineering Staff College of India (ESCI), Hyderabad during 16th – 19th September 2014.
- 38) One day workshop on “National Conference on Leadership in Higher Education” organized by Engineering Staff College of India (ESCI), Hyderabad on July 4th, 2014.
- 39) One day faculty visit to Research Centre Imarath (RCI), Hyderabad organized by Confederation of Indian Industries (CII), New Delhi and TEQIP Andhra Pradesh State Project Facilitation Unit (APSPFU), Andhra Pradesh on May 23rd 2014.
- 40) Five day residential training programme on “Productivity & Competitiveness – Concepts and Measurements” organized by National Productivity Council (NPC), New Delhi at Srinagar during 5th March to 9th March 2014.
- 41) Two day workshop on “Soft Computing Techniques for Image Analysis” organized by department of CSE, V.R. Siddhartha Engineering College, Vijayawada during 18th & 19th December 2013.
- 42) Five day workshop on “Pedagogy Training” organized by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, from October 28th to November 1st, 2013.
- 43) One day workshop on “Complementary Domains–VLSI & Embedded Systems” organized by Department of Electronics and Communication Engineering, JNTUA College of Engineering, Ananthapuramu, on April 30th, 2013.
- 44) One day workshop on “Embedded Systems” organized by Pearson Education and Department of Electronics and Communication Engineering, JNTUA College of Engineering, Ananthapuramu on October 5th, 2012.
- 45) One day Seminar on “MATLAB[®] & Simulink[®] for Engineering Education” organized by Mathworks India Pvt. Ltd. on 6th September 2011.
- 46) National Level Two days Workshop on “ARM Processor Interfacing with Hands on Experience” organized by Department of Electronics and Instrumentation Engineering, Vellammal Engineering College, Chennai, during 26th - 27th August 2011.
- 47) National Level One day Workshop on “Fuzzy and Embedded Systems–Concepts & Applications (FESCA 2011)” organized by Department of Electronics and Instrumentation Engineering, V.R. Siddhartha Engineering College, Vijayawada, on 22nd January 2011.
- 48) Three week UGC sponsored refresher course on “Design and Applications of Robotic Systems and Advanced Mechanisms” organized by UGC-Academic Staff College, Jawaharlal Nehru Technological University, Hyderabad during March 8th – March 31st, 2010.
- 49) Four week UGC sponsored 11th Orientation course organized by UGC-Academic Staff College, Jawaharlal Nehru Technological University, Hyderabad during May 7th – June 2nd, 2007.

- 50) National Level Five day Workshop on “MATLAB Programming and Applications – MPA2007 (under TEQIP)” organized by JNTU College of Engineering, Hyderabad during January 29th to February 2nd, 2007.
- 51) National Level Two day Workshop on “Recent Advances in Digital Image Processing - (RADIP-2K3)” Organized by Department of Electronics and Communication Engineering, Jawaharlal Nehru Technological University College of Engineering (Autonomous), Kakinada on 29th and 30th December 2003.
- 52) Two week workshop on “Faculty Development Programme 2003” Organized by Department of Electronics and Communication Engineering, Gayatri Vidya Parishad College of Engineering, Visakhapatnam during April 28th – May 8th, 2003.

XVI. Workshops/ Training Programmes Organized:

1. One day workshop on “Outcome based Education and NBA Accreditation for UG Engineering” to all the teaching staff of JNTUACEA, Anantapur on 12th December 2025.
2. Two day hands-on-workshop on “Internet of Things and its applications” to all PG students of JNTUACEA during 20th & 21st June 2025.
3. One day program on “Mock NBA compliance visit” to all the six (6) engineering departments of JNTUACEA on 5th April 2025.
4. One day workshop on “Outcome Based Education Philosophy: Bloom’s Taxonomy” to all the faculty members of JNTUACEA on 25th March 2025.
5. Two day workshop on “Outcome Based Education (OBE)” during 3rd & 4th October 2024.
6. AICTE Training and Learning (ATAL) Academy sponsored One Week Faculty Development program on “Exploring the Cutting-edge World of Chip Design” from 4th to 9th December 2023.
7. AICTE-JNTUA sponsored Two Week training program on “Office Procedures for Non-Teaching Staff of JNTUA Constituent Colleges” from 16th to 30th August 2022.
8. AICTE-JNTUA sponsored Two Week training program on “Office Procedures for Non-Teaching Staff of JNTUA Constituent Colleges” from 13th June to 25th June 2022.
9. Two day National Level Students’ Technical Symposium “e-Merge22: merge to emerge” during 30th and 31st March 2022.
10. One day awareness program on “Research Proposals to the faculty members of JNTUACEA” on 26th March 2022
11. One day awareness program on “Research Proposals to the faculty members of JNTUA” on 26th February 2022.
12. Two day workshop on “Career Opportunities in Core Industry” during 8th & 9th August 2019.

13. Two day training program on “Internet of Things – An Industry Application Perceptive,” during 24th & 25th March 2017.
14. Two day National Level Faculty Development Program on “Digital Image Processing, Pattern Recognition and its Applications (with hands-on training)” (under TEQIP-II funds) during 19th & 20th September 2016.
15. Two day National Level Faculty Development Program on “VLSI Design Advancements using Xilinx Tools” (under TEQIP-II funds) during 26th and 27th August 2016.
16. Two day National Level Hands-on Training Program on MSP430 & TIVA Microcontrollers (under TEQIP-II funds) during 23rd & 24th July 2016.
17. Two day National Level workshop on “Internet of Things (IoT)” on 10th and 11th March 2016.
18. Two day National Level Students Technical Symposium “Scintillace 2k16” during 10th and 11th March 2016.
19. Two day National Level Workshop on “Linear IC Applications : A Systems Approach” (under TEQIP-II funds) during 25th & 26th September 2015.
20. Two day National Level workshop on “PCB Design and Tele-presence Robot Technology” on 6th and 7th March 2015.
21. Two day National Level Students’ Technical Symposium “Scintillace 2k15” during 6th and 7th March 2015.
22. Two day International Robotic Championship “RoboTryst 2014-15” in association with IIT Delhi & Robosapiens Technologies Pvt. Ltd., New Delhi during 22nd & 23rd August 2014.
23. Two day National Level Students’ Technical Symposium “Scintillace 2k14” (Under UGC XII plan grants) during 5th and 6th March 2014.
24. Two day National Level Workshop on “Digital Image Processing & Pattern Recognition using MATLAB[®]” (under TEQIP-II funds) during 24th & 25th January 2014.
25. Two day National Robotic Championship 2013 (NRC 2013) in association with IIT Kharagpur & ARK Techno Solutions, Mumbai on 21st & 22nd February 2013.
26. Two day National Level Students’ Technical Symposium “Scintillace 2k9” on 5th and 6th March 2009.

XVII. Visits Abroad:

- **Visited USA** (California State) to present a technical paper in World Congress on Engineering and Computer Science 2015, University of California at Berkeley, San Francisco held during 21-23 October, 2015.

- **Visited USA** (New York State) to present a technical paper in TCSSE International Conference of Science and Technology, Cornell University, New York held during 11-12 August, 2014.

XVIII. Membership in Professional Societies and Governing/ Executive/Advisory body of Industry and Other Sectors:

- Fellow of **Institution of Engineers (India) (F-1269190)**
- Life Member of **Indian Society for Technical Education (ISTE) (LM 53571)**
- Life Member of **International Association of Engineers (No. 132784)**
- Senior Member of **International Association of Computer Science and Information Technology (No.: 80348499)**
- Member of **International Association of Engineering & Technology Researchers**
- Life Member of **Centre for Organizational Development (COD) – Hyderabad, Govt. of India.**

XIX. Academic Assignments:

- **Member Coordinator / Member** of various Committees to assess and accreditation of various universities/colleges by **National Assessment and Accreditation Council (NAAC), Bangalore.**
- **Member** of various Committees constituted by **All India Council for Technical Education (AICTE), New Delhi** like **Standing Appellate / Expert Visit / Scrutiny Committees.**
- **Member, Test Committee, Andhra Pradesh EAPCET-2023** for the AY 2023-24.
- **Member, Governing Body** of various Engineering and Pharmacy Colleges affiliated to J.N.T. University Anantapur (JNTUA), Ananthapuramu.
- **Member, Academic Council** of various autonomous Engineering/Pharmacy Colleges affiliated to JNTUA, Ananthapuramu.
- **Member, Results Committee** of various Autonomous Engineering/Pharmacy Colleges affiliated to JNTUA, Ananthapuramu.
- **Editor In-chief, i-manager's Journal of Electronics Engineering.**
- **Member, Advisory Committee** of various International Conferences
- **Chairman, Board of Studies** of ECE, JNTUA College of Engineering (Autonomous), Pulivendula for about 4 Years.
- **Member, Board of Studies** of ECE department in various Autonomous Engineering Colleges affiliated to JNTUA, Ananthapuramu.

- **Member** of College Academic Council, JNTUA CEA from August, 2022 to till date.
- **Member** of Board of Studies in ECE of S.K. University, Anantapur from August, 2019 to till date.

XX. MoUs formulated for academic collaborations:

S.No.	MoUs formulated	Name of Agencies/Departments involved	Year of MoU
1.	Collaborating for implementing industry integrated Curriculum in Electronics and Communication Engineering	Department of ECE, JNTUA College of Engineering, Pulivendula – EdGate Technologies Pvt. Limited (Texas Instruments India University Program Partner), Bangalore.	2015
2.	Collaborating for implementing industry integrated Curriculum in Electronics and Communication Engineering	Department of ECE, JNTUA College of Engineering, Pulivendula – Foundation for Innovative and Collaborative Education (FICE), Intel® University Program Partner, Bangalore.	2016
3.	To Bridge the gap between industry and academia	Department of ECE, JNTUA College of Engineering, Pulivendula – Texas Instruments, Bangalore.	2016

XXI. Professional Body Activities:

- Serving as **Member, Institution of Engineers (India) Andhra Pradesh State Centre (2024-2026).**

XXII. State Level Committees:

- Appointed as **Member, State level Test Committee, AP EAPCET 2023** by **APSCHE** (the Govt. of Andhra Pradesh).
- Appointed as **Coordinator, Samarth e-Gov,** by **APSCHE** (the Govt. of Andhra Pradesh).

XXIII. Extension/Other Activities:

Actively participated and organized various service activities by involving the students. A few worth mentioning activities are:

- Organized NSS mega camp in JNTUA College of Engineering, Ananthapuramu on 30th September 2023.
- Created awareness on advantages of Blood donation and organized Blood donation camp.

- Participated in plantation programme in JNTUACE, Pulivendula and in few villages surrounding Pulivendula town.
- Participated in AIDS awareness programmes among the student community and in few villages surrounding Pulivendula town.

Details of Ph.Ds awarded

S.No.	Name of the Candidate	Title of the thesis	Full Time / Part Time	Month & Year of Degree Awarded	Supervisor / Co-Supervisor
1	R.Ravindraiah (15PH0402)	Multi Kernel induced spatial fuzzy C means Clustering algorithms for the detection of Exudates in diabetic retinopathy images	Part Time	May 2021	Supervisor
2	T.Maddileti (15PH0423)	Performance optimization of CMOS two stage operational amplifier using Meta-Heuristic Techniques	Part Time	July 2021	Co-Supervisor
3	M.Venkata Dasu (15PH0425)	An adaptive model for hyper-spectral Image Classification	Part Time	May 2023	Co-Supervisor
4	S.Vamsee Krishna (15PH0407)	Mathematical modeling and simulation of single loop sigma delta modulators for low bandwidth applications	Part Time	July 2023	Co-Supervisor
5	Kesava Rao Bagadi (16PH0407)	Development of Optimal Feature Selection for emotion recognition from Speech using Meta Heuristic Optimisation Techniques	Part Time	January 2024	Supervisor
6	Kiran Mannem (15PH0421)	Enhancing Connectivity In LTE Hetnets: Novel Approaches for efficient Target Cell Selection And Handoff Management	Part Time	June 2024	Co-Supervisor
7	Palleti Venkata Kusuma (18PH0416)	Design of Improved U-Net and Hybrid Classification models for Accurate Brain Tumor Diagnosis	Part Time	February 2026	Supervisor

List of Publications:

a) Web of Science, SCI, SCOPUS and other:

- 1) Jalagadugu Anusha, S.Chandra Mohan Reddy, “Hybrid convolution (1D/2D)-based adaptive and attention-aided residual DenseNet approach on brain-computer interface for automatic imagined speech recognition framework”, Science Direct: Computer Speech & Language Journal, Vol. 96, Feb 2026, Impact Factor: 3.4. (DOI: <https://doi.org/10.1016/j.csl.2025.101866>). **(WoS, SCI)**
- 2) M.Dhanunjayan, S.Chandra Mohan Reddy, “Prevention of Row-hammer Attacks in MIV-Based 3D-DRAM using Target Row Refresh”, International Scientific Journal of Engineering and Management (ISJEM), Vol. 04, Issue. 08, Aug-2025, pp. 1-5, Impact Factor: 7.839, DOI: 10.55041/ISJEM04958. **(WoS, SCOPUS)**
- 3) Palletiv Venkata Kusuma, S.Chandra Mohan Reddy, “Brain tumor segmentation and classification using MRI: Modified segnet model and hybrid deep learning architecture with improved texture features”, Elsevier: Computational Biology and Chemistry Journal, Vol. 117, August 2025, pp: 1-23, Impact factor: 3.1. (DOI: <https://doi.org/10.1016/j.compbiochem.2025.108381>). **(WoS, SCI)**
- 4) K.Naveen, S.Chandra Mohan Reddy, “RHBD SRAM Cell using Transmission Gate for Aerospace Application”, International Scientific Journal of Engineering and Management (ISJEM), Vol. 04, Issue. 07, July 2025, pp. 1-6, Impact Factor: 7.839, DOI: 10.55041/ISJEM04924. **(WoS, SCOPUS)**
- 5) Palletiv Venkata Kusuma, S.Chandra Mohan Reddy, “MRI Brain tumor segmentation and classification with improved U-Net Model”, Springer: Multimedia Tools and Applications Journal, Vol. 84, April 2024, pp: 1671-1696, Impact factor: 3.1. (DOI: <https://doi.org/10.1007/s11042-024-18893-7>). **(WoS, SCI)**
- 6) S.Chandra Mohan Reddy, et.al., “A novel approach to protect and self-recovery of digital images”, International Journal of Creative Reserch Thoughts (IJCRT), Vol. 12, Issue 6, June 2024, pp. h824 – h828, UGC approved Number: 49023, Impact Factor: 7.97.
- 7) Kiran Mannem, Psumarthy Nageswara Rao, S.Chandra Mohan Reddy, “Power optimized intelligent Handoff mechanism for 5G-Heterogeneous Network”, Springer: Multimedia Tools and Applications Journal, Vol. 83, December 2023, pp: 56697—56718, Impact factor: 3.1. (DOI: <https://doi.org/10.1007/s11042-023-17709-4>). **(WoS, SCI)**
- 8) Kiran Mannem, Psumarthy Nageswara Rao, S.Chandra Mohan Reddy, “High performance mobility management using KGMO in heterogeneous Network”, Inderscience: International Journal of Wireless and Mobile Computing, Vol. 24, No. 3-4, 2023, pp: 235-242, Impact factor: 0.63. (DOI: 10.1504/IJWMC.2023.131308). **(WoS, SCI)**

- 9) M Venkata Dasu, P. Veera Narayana Reddy, S Chandra Mohan Reddy, “Deep Concatenated features with improved heuristic based recurrent neural network for hyper spectral image classification”, Springer: Multimedia Tools and Applications Journal, Vol. 83, November 2023, pp: 49875-49904, Impact factor: 3.1. (DOI: <https://doi.org/10.1007/s11042-023-17351-0>). **(WoS, SCI)**
- 10) A.Seema Sadiya, S.Chandra Mohan Reddy, “Brain Tumor Detection and localization using faster RCNN”, Journal of Technology, Issue No. 1012-3407, Vol. 13, Issue 11, 2024, pp. 143-153, Impact factor: 4.6.(DOI: 10.61350/v13-105437) **(WoS, SCOPUS)**
- 11) Kesav Rao Bagadi, Chandra Mohan Reddy Sivappagari, “An evolutionary optimization method for selecting features for speech emotion recognition”, TELKOMNIKA: Telecommunication Computing Electronics and Control, Vol. 21, No. 1, February 2023, pp.: 159-167, Impact factor: 1.732, DOI: 10.12928/TELKOMNIKA.v21i1.24261. **(WoS, SCOPUS)**
- 12) C.Yasmeen, S.Chandra Mohan Reddy, “A multiplier’s architecture based on approximate 2-bit LUT adders”, TIJER-International Research Journal, Vol. 10, Issue 10, October, 2023, pp. a222-a227, Impact Factor: 8.57.
- 13) S.Vamsee Krishna, P.Sudhakara Reddy, S.Chandra Mohan Reddy, “Rapid Design Exploration of Low Pass Highly Efficient Single Loop Single Bit Sigma Delta ($\Sigma\Delta$) Modulators”, Computer Assisted Methods in Engineering and Science, Vol.30, No.1, 2023, pp. 27-39, Impact factor: 1.35. <https://doi.org/10.24423/comes.511>. **(WoS, SCOPUS)**
- 14) Kiran Mannem, Psumarthy Nageswara Rao, S.Chandra Mohan Reddy, “Multi-Objective Artificial Flora Algorithm Based Optimal Handover Scheme for LTE-Advanced Networks”, IEEE Explorer, 2022 6th International Conference on Electronics, Communication and Aerospace Technology, January 2023, DOI: 10.1109/ICECA55336.2022.10009271. **(WoS, SCOPUS)**
- 15) S.Vamsee Krishna, P.Sudhakara Reddy, S.Chandra Mohan Reddy, “Effective modeling and characterization of sigma delta modulator based ADC interface for smart IoT systems”, Proceedings of 4th International Conference on Smart Grids, Structures and Materials (ICSGSM-2022), May, 2022.pp. 23. **(WoS, SCOPUS)**
- 16) C.Gowthami, S.Chandra Mohan Reddy, Gannera Mamatha, “Design and Verification of NOR Flash Memory controller for Open Power-based Fabless SoC”, International Journal of Creative Research Thoughts (IJCRT), Vo. 10, Issue 12, December 2022, pp. e709-e711, UGC approved Number: 49023, Impact Factor: 7.97. **(WoS, SCOPUS)**
- 17) Shanmukha Sai Nikhil Myramuru, S.Chandra Mohan Reddy, Gannera Mamatha, “Design and Integration of NAND Flash Memory Controller for Open Power-based Fabless SoC”, International Journal of Engineering and Advanced Technology, Vol. 12, Issue 2, December 2022, pp. 137-144, Impact Factor: 5.626, DOI: 10.35940/ijeat.D3470.1212222.. **(WoS, SCOPUS)**

- 18) B.Esther Rani, S.Chandra Mohan Reddy, “Colour correction and enhancement using hybrid learning model for underwater images”, International Journal of Innovative Research in Technology, Vol. 8, Issue 9, February 2022, Impact Factor: 8.01.
- 19) Kesav Rao B, Chandra Mohan Reddy S, “An Efficient Feature Selection with Ensemble Machine Learning Model for Speech Emotion Recognition”, Journal of Optoelectronics Laser, Vol 41, Issue 7, 2022, pp. 44-52, Impact factor: 0.58, DOI: 10050086.2022.07.5. (WoS, SCI)
- 20) Kesav Rao Bagadi, Chandra Mohan Reddy Sivappagari, “A robust feature selection method based on meta-heuristic optimization for speech emotion recognition”, Springer: Evolutionary Intelligence, Vol. 17, September 2022, pp. 993-1004, Impact factor: 2.6, DOI: <https://doi.org/10.1007/s12065-022-00772-5>. (WoS, SCOPUS)
- 21) Jalli Midhula Sri, S. Chandra Mohan Reddy, “Weed Detection in between the Crops using Morphological Operations”, The International Journal of Analytical and Experimental Modal Analysis, Vol. XIII, Issue III, March, 2021, pp. 782-787, Impact factor: 6.3, UGC CARE Group–II, DOI: 18.0002.IJAEMA.2021.V13I3.200001.0156859021698, (WoS, SCOPUS)
- 22) Venkata Dasu Marri, Veera Narayana Reddy P, Chandra Mohan Reddy S, “RNN-based multispectral satellite image processing for remote sensing applications”, International Journal of Pervasive Computing and Communications, Vol, 17, Issue 5, December 2021, pp. 583-595, Impact factor: 5.7, DOI: <https://doi.org/10.1108/IJPC-07-2021-0153>. (WoS, SCOPUS)
- 23) Madhavaram Jhansi, Chandra Mohan Reddy S, “Design of 32 bit MAC unit using High Speed Reverse Carry propagate Full adder”, The International Journal of Analytical and Experimental Modal Analysis, Vol. XIII, Issue VII, July, 2021, pp. 1929-1934, Impact factor: 6.3, UGC CARE Group–II, DOI:18.0002.IJAEMA.2021.V13I7.200001.015685903216, (WoS, SCOPUS)
- 24) S.Vamsee Krishna, P.Sudhakara Reddy, S.Chandra Mohan Reddy, “A novel system-level modeling and design approach for high performance single-loop sigma-delta ($\Sigma\Delta$) modulators”, International Journal of Intelligent Unmanned Systems, Vol. 11, Issue 1, January 2023, pp. 48-60, Impact factor: 3.9, DOI 10.1108/IJIUS-06-2021-0051. (WoS, SCOPUS)
- 25) K.Pramidapadma, Chandra Mohan Reddy Sivappagari, “Improvement of Bit Error Rate in Circular Filter Bank Multicarrier Communications by Using Low Density Symbol Check”, Springer Nature: Emerging Trends in Electrical, Communications and Information Technologies, September 2019, pp. 611-622, DOI: https://doi.org/10.1007/978-981-13-8942-9_51. (WoS, SCOPUS)
- 26) Kiran Mannem, Psumarthy Nageswara Rao, S.Chandra Mohan Reddy, “Handover Decision in LTE & LTE-A based Hetnets using Regression Heuristics of Quality Metrics (RHQM) for Optimal Load Balancing”, IEEE Explorer-2020 Fourth International

- Conference on Inventive Systems and Control, January 2020, DOI: 10.1109/ICISC47916.2020.9171206. (**WoS, SCOPUS**)
- 27) Telugu Maddileti, S.Govindarajulu, S.Chandra Mohan Reddy, “Design Optimization of Two Stage Operational Amplifiers using Chaotic Antlion Optimization”, IEEE Explorer-4th International Conference on Inventive Systems and Control, January 2020, pp. 505-512, DOI: 10.1109/ICISC47916.2020.9171060, (**WoS, SCOPUS**)
 - 28) Telugu Maddileti, S.Govindarajulu, S.Chandra Mohan Reddy, “Design Optimization of Power and Area of Two-Stage CMOS Operational Amplifier Utilizing Chaos Grey Wolf Technique-WoS-ESCI-2020”, International Journal of Advanced Computer Science and Applications, Vol. 11, No. 7, 2020, pp. 465-479, DOI: 10.14569/IJACSA.2020.0110760, (**WoS, SCOPUS**)
 - 29) Venkata Dasu Marri, Veera Narayana Reddy P, Chandra Mohan Reddy S, “Classification of Remote Sensing Images Based on K-Means Clustering and Artificial Bee Colony Optimization”, Springer: Advances in Cybernetics, Cognition and Machine Learning for Communication Technologies, Vol. 643, April 2020, pp. 57-65, https://doi.org/10.1007/978-981-15-3125-5_7. (**WoS, SCOPUS**)
 - 30) R.Ravindraiah, S Chandra Mohan Reddy, “An Instinctive Application of Spatially Weighted Possibilistic An Instinctive Application of Spatially Weighted Possibilistic Clustering Methods for the Detection of Lesion in Diabetic Retinopathy Images in Multi-Dimensional Kernel Space”, Springer: Wireless Personal Communication An International Journal, Vol. 113, No. 1, 2020, pp. 223-240, Impact factor: 2.2, DOI 10.1007/s11277-020-07186-5 (**WoS, SCI**)
 - 31) P.Nagaveni, Potli Aswarthanarayana, Chandra Mohan Reddy Sivappagari, “A Novel Approach for Brain Tumor Detection Using Hierarchical Centroid Shape Descriptor”, Springer: Emerging Trends in Electrical, Communications and Information Technologies, Vo. 569, September 2019, pp. 599-609, https://doi.org/10.1007/978-981-13-8942-9_50. (**WoS, SCOPUS**)
 - 32) B.Jyothi, Chandra Mohan Reddy Sivappagari, “A New Approach for Image dehazing using Koschmieder’s Model”, Springer: Emerging Trends in Electrical, Communications and Information Technologies, Vo. 569, September 2019, pp. 623-630, https://doi.org/10.1007/978-981-13-8942-9_52. (**WoS, SCOPUS**)
 - 33) Telugu Maddileti, S.Govindarajulu, S.Chandra Mohan Reddy, “Optimization of Design Techniques by Reducing Power and Area of Two Stage CMOS Operational Amplifier Employing Salp Swarm Algorithm”, International Journal of Innovative Technology and Exploring Engineering, Vol. 8, Issue 8, June 2019, pp. 603-611, Impact factor: 5.662, (**WoS, SCOPUS**)
 - 34) Telugu Maddileti, S.Govindarajulu, S.Chandra Mohan Reddy, “Multi Objective Optimization Of Two Stage Operational Amplifiers Using Antlion Optimization”, Interna-

tional Journal of Scientific & Technology Research, Vol. 8, Issue 07, July 2019, pp. 77 – 85, Impact factor: 0.123, **(WoS, SCOPUS)**

- 35) R.Ravindraiah, S Chandra Mohan Reddy, “Evaluation of Conventional methods for the Detection of Lesions in Diabetic Retinopathy Images: A Research”, International Journal of Innovative Technology and Exploring Engineering, Vol. 8, Issue 9S2, July 2019, pp. 52-57, Impact factor: 5.662, DOI : 10.35940/ijitee.I1010.0789S219, **(WoS, SCOPUS)**
- 36) Mohammed Rafi, Chandra Mohan Reddy Sivappagari, “Design of a High Speed and Efficient Novel Cell Prefix Adder”, Journal of Advanced Research in Dynamical & Control Systems, Vol. 11, No. 5, 2019, pp. 269-278, **(WoS, SCOPUS)**
- 37) M Venkata Dasu, P V N Reddy, S. Chandra Mohan Reddy, “Classification of Landsat-8 Imagery Based On PCA And NDVI Methods”, International Journal of Innovative Technology and Exploring Engineering, Vol. 8, Issue 10, August 2019, pp. 4321-4325, Impact factor: 5.662, DOI: 10.35940/ijitee.J9843.0881019, **(WoS, SCOPUS)**
- 38) R.Ravindraiah, S Chandra Mohan Reddy, “Assessment of Computational Methods for the Analysis and Gradation of Diabetic Retinopathy Fundus Images”, Journal of Emerging Technologies and Innovative Research, Vol. 6, Issue 5, May 2019, pp. 286-292, UGC Approved No. 63975, Impact factor: 7.95. **(WoS, SCOPUS)**
- 39) R.Ravindraiah, S Chandra Mohan Reddy, “Application of Spatially Weighted Soft Clustering Methods for the Detection of Diabetic Retinal Abnormalities in Multiple Kernel domain”, International Journal of Modern Electronics and Communication Engineering, Vol. 7, Issue 4, July 2019, pp. 132-138, **(WoS, SCOPUS)**
- 40) R.Ravindraiah, S Chandra Mohan Reddy, “An Instinctive Method for Lesion Detection in Diabetic Retinopathy Images using a Novel Spatial Possibilistic C means Clustering in Kernel Space”, International Journal of Recent Technology and Engineering, Vol. 8, Issue 2S11, September 2019, pp. 2380-2386, DOI: 10.35940/ijrte.B1272.0982S1119, **(WoS, SCOPUS)**
- 41) Telugu Maddileti, S.Govindarajulu, S.Chandra Mohan Reddy, “A Survey on the Performance Optimization of CMOS - Operational Amplifier using Evolutionary Techniques”, International Journal of Research, Vol VIII, Issue V, May 2019, pp. 1918-1927, UGC Approved No.: 63072, Impact factor: 5.7, DOI:16.10089.IJR.2019.V8I5.285311.235766
- 42) Ambavaram Narayanamma, Chandra Mohan Reddy Sivappagari, “Video Face Recognition via Leaned Representation on Feature-Rich Key frames”, International Journal of Research, Vol. 5, Issue 12, April 2018, pp. 1858 – 1869, UGC Approved No.: 63072, Impact factor: 5.7.
- 43) B.Jyothi, Chandra Mohan Reddy Sivappagari, “Variational Image Dehazing Based on Multi Scale Fusion”, International Journal of Computer Sciences and Engineering,

Vol. 6, Issue 7, July 2018, pp. 1224-1228, <https://doi.org/10.26438/ijcse/v6i7.12241228>

- 44) Sukumar beeda, S.Chandra Mohan Reddy, “Review on FPGA Implementation of 3D distributed Arithmetic based DWT architecture for Image Processing Applications”, *Journal of Engineering and Applied Sciences*, Vol. 13, Issue 21, 2018, pp. 9177-9183, <https://doi.org/10.36478/jeasci.2018.9177.9183>
- 45) Chatla Sudheer, Chandra Mohan Reddy Sivappagari, “OTSU Method based Laryngeal Tumor Detection and Classification”, *International Journal of Technical Innovation in Modern Engineering & Science*, Vol 4, Issue 09, September 2018, pp. 300-305, UGC Approved No. 47719, Impact factor: 5.22.
- 46) K.Pramidapadma, Chandra Mohan Reddy Sivappagari, “Improvement of Bit Error Rate using Novel Precoded Technique”, *International Journal of Computer Sciences and Engineering*, Vol. 6, Issue 7, July 2018, pp. 168-172, <https://doi.org/10.26438/ijcse/v6i7.168172>
- 47) Mittala Thulasi, Chandra Mohan Reddy Sivappagari, “Human Age and Gender estimation process by using Facial Image”, *IEEE Explorer-2018 International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques*, December 2018, DOI: 10.1109/ICEECCOT43722.2018.9001322
- 48) M.Sreenavya, Chandra Mohan Reddy Sivappagari, “Fusion of Saliency based Co-Saliency Detection”, *International Journal of Computer Sciences and Engineering*, Vol. 6, Issue 7, July 2018, pp. 578-583, <https://doi.org/10.26438/ijcse/v6i7.578583>
- 49) R.Ravindraiah, S Chandra Mohan Reddy, “Exudates Detection in Diabetic Retinopathy Images Using Possibilistic C-Means Clustering Algorithm with Induced Spatial Constraint”, *Springer: Artificial Intelligence and Evolutionary Computations in Engineering Systems*, Vol. 668, March 2018, pp. 455-463, https://doi.org/10.1007/978-981-10-7868-2_44, **(WoS, SCOPUS)**
- 50) T.Venu Gopal Reddy, Chandra Mohan Reddy Sivappagari, “Design of Resolver to Digital Converter for Motor Control Applications”, *International Journal of Computer Sciences and Engineering*, Vol. 6, Issue 7, July 2018, pp. 239-244, <https://doi.org/10.26438/ijcse/v6i7.239244>
- 51) Dande Parameswara Upendranath, Chandra Mohan Reddy Sivappagari, “Compressive Sensing based on Partial Identity Canonical Matrix for Image Reconstruction using Matched Wavelet”, *International Journal of Research*, Vol. 5, Issue 12, April 2018, pp. 1492 – 1509, UGC Approved No.: 63072, Impact factor: 5.7.
- 52) Mittala Thulasi, Chandra Mohan Reddy Sivappagari, “Human Age and Gender estimation process by using Facial Image”, *International Journal of Computer Sciences and Engineering*, Vol. 6, Issue 7, July 2018, pp. 550-555, <https://doi.org/10.26438/ijcse/v6i7.550555>

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