ANNAMACHARYA UNIVERSITY

About Profile



NAME: Dr. J. Chinna Babu

DATE OF BIRTH: 05/05/1985

DESIGNATION: Associate Professor & Head

DEPARTMENT: ECE

EMAIL ID: jchinnababu@gmail.com

DATE OF JOINING: 19/09/2008

EMPLOYEE ID: AITS041012

Academic Profile

Qualification	Name of the Board/University	YEAR
Ph. D. (E.C.E.)	JNT University, Anantapur	2020
M.Tech. (VLSI S D)	JNT University, Anantapur	2009
B.Tech. (E.C.E.)	JNT University, Hyderabad	2006
Intermediate	S.N.S.R.M College, Kovur	2002
S.S.C.	T.N.C High School, Kovur	2000

Research Details

1	Areas of Specialization	VLSI System Design, Machine Learning, IoT, Security Communication
2	Number of Publications	61
3	Awards Received	04
4	Research Guidance:	 No. of Ph.D. Guiding: 04 No. of M.Tech. Projects Guided: 11 No. of B.Tech. Projects Guided: 36
5	Subjects Taught	 Under UG level: Electronics Devices and Circuits VLSI Design Pulse and Digital Circuits Linear IC Applications Digital IC Applications DSP Processors & Architectures Switching Theory and Logic Design Electronic Circuit Analysis Linear and Digital IC Applications Digital and Data Communications Analog Communication Digital Communication Digital Pesign/Digital Logic Design Analog Electronic Circuits Advanced Digital Design Concepts Analog Circuits Digital IC Design Digital System Design through VHDL Under PG level: Algorithms for VLSI Design
6	Memberships	1. MIAENG 2. MICATA

Publication Details:

Title		Published Year
DANNET: deep attention neural network for efficient ear identification in biometrics	Peer J Computer Science Journal	2025

Title	Publisher / Journal	Published Year
Enhancing remote sensing image fusion with deep learning attention fusion residual approach		2025
A Dynamic Hybrid Decoder approach using EG-LDPC Codes for Signal processing applications		2021
Local-Ternary-Pattern-Based Associated Histogram Equalization Technique for Cervical Cancer Detection		2023
IoT-Based Intelligent System for Internal Crack Detection in Building Blocks	Journal of Nanomaterials – Hindawi	2022
Smart Contract-Enabled Secure Sharing of Health Data for a Mobile Cloud-Based E-Health System		2023
Grade Classification of Tumors from Brain Magnetic Resonance Images Using a Deep Learning Technique		2023
Image Noise Removal in Ultrasound Breast Images Based on Hybrid Deep Learning Technique		2023
Design Optimization of Counter-Flow Double-Pipe Heat Exchanger Using Hybrid Optimization Algorithm		2023
Application of multi agent systems for advanced energy management in cyber physical hybrid microgrid systems		2024
Low-Power VLSI Implementation of Fault-Tolerant Parallel Real FFT Architectures		2023
Health Recommendation System using Deep Learning-based Collaborative Filtering	Heliyon – Elsevier	2023
A hybrid model for lung cancer prediction using patch processing and deep learning on CT images	Livillitimedia Logis and	2024
Advances in real time smart monitoring of environmental parameters using IoT and sensors		2024
Edge detection using fast pixel-based matching and contours mapping algorithms	PLOS ONE	2023
Performance optimization for an optimal operating condition for a shell and heat exchanger		2024
Detection of COVID-19 Based on Deep Learning Methods: A Critical Review	Studies in Computational Intelligence - Springer	2024

Title	Publisher / Journal	Published Year
Google Appstore Data Classification Using ML Based Naïve's Bayes Algorithm: A Review		2024
Improved Radix-4 Fast Fourier Transform Algorithm Used for Wireless Communication	Studies in Computational	2024
Enhancing a Learning Management System's Effectiveness Through NEP- Compliant Curriculum	Lecture Notes on Data Engineering and Communications Technologies – Springer	2024
Detection and classification of COVID- 19 using supervised deep learning on MRI images		2024
Influence of performance and emission of diesel engine with alumina catalyst biodiesel using IoT	Research and Applications – Inderscience	2023
Accelerated Addition in Resistive Ram Array Using Parallel-Friendly Majority Gates	Studies in Computational Intelligence - Springer	2024
An efficient method for privacy protection in big data analytics using oppositional fruit fly algorithm		
Deep learning-based attention models for sarcasm detection in text	Int. Journal of Electrical and Computer Engineering	2024
Design and implementation of wireless sprinkler irrigation system with seed sowing	SN Applied Sciences	2023
Multi region minutiae depth value-based efficient forged fingerprint analysis		2023
Hybrid optimization for enhanced security of shell and tube heat exchangers		2023
Deep learning models for head position prediction on X-ray image for Cephalometric analysis	Intelligent Data Analysis Journal - IOS Press	2023
An automatic diagnostic model for cardiovascular diseases using swarm intelligence		2024
Wireless Sensor Networks with Multi- Criteria Clustering and Bio-Inspired Routing		2023
Clustered Single-Board Devices with Docker Container Architecture	Computers, Materials & Continua – CMC	2022
Design and Performance of Novel 8T3R NVSRAM Cell	Symmetry – MDPI	2022
A Hybrid Soft Bit Flipping Decoder Algorithm for signal transmission and reception		2022

Title	Publisher / Journal	Published Year
Melanoma Skin Segmentation Using PCA and Morphological Methods	SCI- Springer	2021
Safety Locker System with Image Identification Using IOT	SCI- Springer	2021
Improved Radix-4 FFT Algorithm for Wireless Communication	SCI- Springer	2021
Outcome Based Education: A Model for Higher Educational Institutions in India	Int. Journal of Continuing Engineering Education and Life-Long Learning	2021
Throughput Comparison of Majority Logic Decoder with Other Decoders	LNEE – Springer	2021
A Review on OTA with Low Power and Low Noise Techniques for Medical Applications		2021
Error Performance of Hybrid Weighted Bit Flipping decoder with EG-LDPC codes	Science and Technology	2020
Implementation of Dynamic Decoders Using EG-LDPC Codes	LNEE – Springer	2020
An Intelligent Smart Black Box System for Crash Recovery	Int. Journal of Advanced Science and Technology	2020
Computation of Parity Check Matrices for Binary EG- LDPC Codes	Helix Journal	2019
IOT Multitasking: Smartphone app for real-time scheduling	IEEE ICBDSC Conference Proceedings	2019
Comparison of Decoding Algorithms for EG-LDPC Codes	Lecture Notes in Electrical Engineering - Springer	2017
VLSI Implementation of Decoding algorithms for EG-LDPC Codes	Elsevier Procedia	2017
Generation and Decoding of Non-Binary LDPC Codes using MSA	Lecture Notes in Electrical Engineering - Springer	2017
Comparison of technologies for SBF decoder for geometric LDPC codes	INDJST Journal	2016

Patent Details

S. No.	Title of Patent	Submitted/Published /Awarded
1	Patent Application No: 201941054297 A Publication date: 09/10/2020 Title of the Invention: Self Reliability based Weighted Soft Bit Flipping Algorithm for decoding EG-LDPC codes	Published
2	Patent Application No: 201941053591 A Publication date: 18/09/2020 Title of the Invention: An efficient Arithmetic VLSI architecture for DWPT error approximation	Published
3	Patent Application No: 202241040545 A Publication date: 22/07/2022 Title of the Invention: Real time Implementation of Distributed Control for Advanced Energy Management of Cyber Physical Micro-grid using Multi Agent system	Published