



ANNAMACHARYA UNIVERSITY

EXCELLENCE IN EDUCATION; SERVICE TO SOCIETY
(ESTD, UNDER AP PRIVATE UNIVERSITIES (ESTABLISHMENT AND REGULATION) ACT, 2016)
Rajampet, Annamayya District, A.P – 516126, INDIA

Faculty Profile

Basic Information:

NAME : Dr. G. Thirumalaiah
DESIGNATION : Assistant Professor
DEPARTMENT : ECE
DATE OF BIRTH : 25.05.1988
DATE OF JOINING : 11.06.2011
EMAIL ID : gth@aitsrajampet.ac.in
EMPLOYEE ID : 074



Academic Profile:

Qualification	Name of the Board/University	YEAR
Post-Doctoral Fellowship (PDF)(Malaysia)	Lincoln University	Pursuing
Ph.D.	Karunya University (Deemed-to-be University)	2023
MTech	Jawaharlal Nehru Technological University (JNTU) Anantapur	2013
B. Tech	Jawaharlal Nehru Technological University (JNTU) Anantapur	2009

Research Details:

1. Areas of Specialization	:	Edge AI, Industry Automation, Internet of Things, Robotics, Image Processing etc....
2. No. of Publications	:	30
3. Awards Received	:	NIL
4. Research Guidance		01
	No. of PhD Guided:	NIL
	No. of MTech. Guided:	10 (completed), 01 (on going)
	No. of B.Tech. Guided:	20 BATCHES (Completed), 03 batches (on going)
5. Details of Professional Membership:		I.A.C.S.I.T., Singapore (80341328), IAENG, Hong Kong (112657), UACEE, India (IN0078664), Singapore Institute of Electronics (60080009)



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6. Subjects Taught	:	Embedded Systems, Microprocessor and Microcontrollers, Advanced Micro Controllers and Interfacing, Optical Communications, Digital Image Processing, Electronic Devices and Circuits, Analog Communications, Digital Communications, Signals and Systems etc.
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Publication Details:

Title	Publisher	Published Year
Automated soft drinks dispensing system using pneumatic gripper robot arm	American Institute of Physics (AIP)	2025
An Optimized Edge Detection Algorithm for Computer Vision and Robot Applications	IEEE	2025
An Optimized Path Planning Technique in A Static Environment for Computer Vision Applications	IEEE	2025
IoT Object Based Product Sorting Machine	IEEE	2025
Enhancing agricultural intelligence and sustainability with an intelligent irrigation system based on wireless sensor networks and fuzzy PID control	Taylor & Francis	2025
A Voice-Assisted Walking Support for Visually Impaired People Utilizing a Wearable Sensor Network	Springer	2024
Industrial Fault Detection System Using IoT Based Arduino and Node MCU	SSRN (Elsevier)	2024
Hardware Efficient Realization of 128-bit Advanced Encryption Standard in FPGA	IEEE	2024
Intelligent Greenhouse Monitoring and Automatic Controlling Protocol by Using Python on Raspberry Pi	Springer	2022
Automated Speed Braking System Depending on Vehicle Over Speed Using Digital Controller	Springer	2020
An Optimized Complex Motion Prediction approach based on a video Synopsis	Emerald Publications	2021
An energy Optimized object modelling technique for video synopsis using particle Swarm Optimization	River Publications	2020



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An Optimized Novel Technique for video synopsis using Bayesian Object Tracking Algorithm	American Scientific Publishers	2020
An Advanced Approach for distortion less seam carving in video analysis	Science Publishing Corporation	2020
Dynamic Object Indexing Technique for Distortion less Video Synopsis	Springer	2018
A Novel Design of Automatic Parallel System for Nonholonomic Mobile Robot	Coimbatore Institute of Information Technology (CIIT.)	2013
Natural Image Based VSS Scheme for Sharing Image Using Diverse Image Media	Springer	2013
Automated Toll e-Ticketing Using MSP 430 Launch Pad - International Journal of Innovative Research in Computer and Communication Engineering	IEEE	2013
An optimized performance validation for passenger journey using smart cards	Springer	2013

Patent Details:

Title of Patent	Submitted/Published/Awarded
SYSTEM AND METHOD FOR BLOCKCHAIN-BASED CREDIBILITY VERIFICATION OF INTERNET OF THINGS (IOT) ENTITIES	Published