



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. K. SHANKAR
DESIGNATION : Associate Professor
DEPARTMENT : E.C.E.
DATE OF BIRTH : 25-07-1987
DATE OF JOINING : 20-06-2019
EMAIL ID : shan87.maddy@gmail.com
EMPLOYEE ID : 1412



Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph.D.	Annamalai University, Chidambaram (Under Govt. of Tamil Nadu) Tamil Nadu.	2019
M. Tech	PRIST University, Thanjavur, Tamil Nadu.	2010
B.E.	Anna University, Chennai, Tamil Nadu.	2008

Research Details:

1. Areas of Specialization	:	Image Processing; Communication Systems
2. No. of Publications	:	23
3. Awards Received	:	4
4. Research Guidance		
	No. of PhD Guided :	02 (Ongoing)
	No. of M.Tech. Guided :	06
	No. of B.Tech. Guided :	36
5. Details of Professional Membership:		<ol style="list-style-type: none">1. Life Member, Indian Society of Technical Education, India ISTE (LM 82321).2. Life Member, International Association of Engineers IAENG (501389)3. Life Member, Institute for Engineering Research And Publication IFERP (PM98570641).4. Reviewer, Journal of Engineering Science and



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	Technology (JESTEC)
6. Subjects Taught	<ul style="list-style-type: none">• Wireless Communication and Networks• Cellular and Mobile Communication• Digital Image Processing• Digital Signal Processing• Radar Engineering• Digital Communication• Microprocessors and Interfacing• Electronic Measurements and Instrumentation• Analog Communication• Electronic Devices and Circuits• Embedded Systems and Applications

Publication Details:

Title	Publisher	Published Year
Published in SCI Journals:		
1. Performance investigation of spectral-efficient high-speed inter-satellite optical wireless communication link incorporating polarization division multiplexing	Springer	2021
2. Scheduling and Resources allocation in network traffic using multiobjective, multiuser joint traffic engineering	Springer	2020
Published in SCOPUS Indexed Journals:		
1. IoT Based Delivery Robot with Theft Detection for Food and Goods Supply	EDP Sciences	2025
2. Enhanced Image Dehazing Using Contrast-Based Fusion Techniques	Springer	2025
3. Asymmetrically Clipped Optical Orthogonal Frequency Division Multiplexing (ACO-OFDM) in Underwater Optical Communication	Springer	2025
4. An Efficient Soft Descrambling Procedure to Enable Soft-Source-Information-Combining for Wireless Networking	Springer	2025
5. Smart Reflecting Surface Approach for Reconfigurable Wireless Signal Transmission	Springer	2023
6. ML Based Intelligent Transport System Through GPS and Traffic Analysis	Springer	2023



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7. Melanoma Skin Segmentation Process Using PCA and Morphological Methods	Springer	2022
8. Natural Image Denoising and Enhancement Based on Iterative Bilateral Filter	ScieniQ Publishers	2018
9. Natural Image Enhancement and Segmentation using Contrast Reduced Dynamically Modified Histogram Equalization (CRDHE)	IJEETE	2017
10. Unsupervised Segmentation of Natural Images Based on Contour	International Digital Organization for Scientific Information (IDOSI)	2016
Published in IEEE Xplore:		
1. Design and implementation of low power FFT/IFFT processor for wireless communication	IEEE	2012
Published in UGC Journals:		
1. Satellite Image Enhancement using DT-CWT-ABF-RE-Technique	Society for Experimental Mechanics	2020
2. RFID Based Intelligent Book Shelving System	Society for Experimental Mechanics	2020
3. Collective Electro Encephalo Graph Signals by Means of Wavelet Transforms	JETIR	2019
4. Segmenting of Images for Superior Feature Extraction Through Level Set Method	IJRSR	2018
5. Segment Extraction for Path Identification from Satellite Images by Various Algorithms	IJCRT	2018
6. Unsupervised Segmentation for Better FR within Human-Machine Interfaces	Internal Journals Publication House	2018
7. Discovering Anomalies Based on Saliency Detection in Surveillance System	R Patel	2017
8. Edge Detection Techniques in Processing Digital Images: Investigation of Canny Algorithm	IJSES	2017
9. Implementation of Saliency Detection in Motion Fields	IJSES	2015



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10. Analysis of Cluster Based Zone Routing Protocol in MANET through Network Simulator	Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP)	2013
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Patent Details:

Title of Patent	Submitted/Published/Awarded
DESIGN AND INVESTIGATION OF LOW POWER MULTI-THRESHOLD CMOS BASED STATICRAM CUBICLE FOR MODERN IOT APPLICATIONS	Published
COMPUTER - IMPLEMENTED SYSTEM FOR ANALYZING HUMAN BRAIN IMAGES USING FUNCTIONAL IMAGING DATA	Published
IOT SYSTEM TO DETECT AND ANALYSE GAIT OF INDIVIDUAL AND METHOD EMPLOYED THEREOF	Published
IEMG-POWER BANK: INTELLIGENT ELECTRONICS MODERN GAUGEATE POWERBANK	Published