



**K.Ravindra Reddy , M.Tech(P.hD)**

Assistant Professor (adhoc)

JNTUA College of Engineering,Pulivendula

Pulivendula – 516390, Andhra Pradesh, India

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**Bio-data**

**Name** : K. Ravindra Reddy

**Official Address** : Assistant Professor (Adhoc),  
Department of Electronics and Communication Engineering,  
JNTUA College of Engineering Pulivendula,  
Pulivendula – 516390,  
Andhra Pradesh ,INDIA.  
Mobile :8500542876.

**Residential Address** : D.No:4-2-162,  
Madhuri ice factory street,  
Pulivendula – 516390,  
Andhra Pradesh (India)

**E-mail** : [ravindra.ece@jntua.ac.in](mailto:ravindra.ece@jntua.ac.in),[ravindra.kalvapalli@gmail.com](mailto:ravindra.kalvapalli@gmail.com)

Nationality : Indian

Religion : Hindu

**Educational Qualifications:**

S. No.	Qualification	University/Institution	Specialization	Year of award
1.	M.Tech	JNTU Anantapur	Digital Systems and Computer Electronics	2011
3.	B.Tech	JNTU Anantapur	Electronics & Communication	2017

**Professional Experience :**

S.No.	Institution/Organization	Position held	Duration
1.	JNTUA College of Engineering, Pulivendula	Assistant Professor (ad hoc) Department of ECE	2011 – till date
2.	Sri Venkateswara Institute of Science and Technology	Assistant Professor Department of ECE	2010 – 2011

**Administrative Experience**

S.No.	Administrative Post held	Duration
1.	Student's Union Coordinator	18-09-2018 To till date

Teaching Experience: 12+ years of teaching UG & PG Courses

**Subjects & Labs Taught:**

Undergraduate courses	Post graduate courses
<ul style="list-style-type: none"><li>❖ Digital Image Processing</li><li>❖ T.V.Engineering</li><li>❖ Wireless Communications &amp; Networks</li><li>❖ Satellite Communications</li><li>❖ Electronic Measurements &amp; Instrumentation</li><li>❖ VLSI Design</li><li>❖ Linear IC Applications</li></ul>	<ul style="list-style-type: none"><li>❖ Image and Video Processing</li><li>❖ Multimedia Communications</li><li>❖ Advanced Computer Networks</li><li>❖ Low power VLSI design</li><li>❖ Wireless Communications</li><li>❖ High Speed Networks</li><li>❖ Speech Processing</li></ul>

<ul style="list-style-type: none"> <li>❖ Switching Theory and Logic Design</li> <li>❖ Electronic Devices &amp; Circuits</li> <li>❖ Embedded &amp; Real Time operating Systems</li> <li>❖ Analog Communications</li> </ul> <p><b>Labs Handled:</b></p> <ul style="list-style-type: none"> <li>❖ Electronic Devices &amp; Circuits Laboratory</li> <li>❖ Signals &amp; Systems Laboratory</li> <li>❖ Basic Simulation Laboratory</li> <li>❖ Digital Signal Processing Laboratory</li> <li>❖ Analog Electronic Circuits Laboratory</li> <li>❖ Digital Communications Laboratory</li> <li>❖ DSP &amp; VLSI Laboratory</li> </ul>	<ul style="list-style-type: none"> <li>❖ CMOS Digital IC Design</li> </ul> <p><b>Labs Handled:</b></p> <ul style="list-style-type: none"> <li>❖ Image and Video Processing Laboratory</li> <li>❖ Advanced Communications Laboratory</li> <li>❖ Digital System design Laboratory</li> <li>❖ Networking laboratory</li> </ul>
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**Membership of Scientific /Engineering Bodies:**

- ❖ Member of International Association of Engineers(IAENG)(138863)
- ❖ Life Member of Indian Society for Technical Education(ISTE)(LM 88024)

**Number of Research publications:**

**International journals:    21**  
**International Conferences:    09**  
**National Conferences:    03**

**List of publications:**

**International Journals:**

- ❖ Ravindra Reddy,K,Siva Chandra,K,Anusha.G Publied paper on **An higher –order synaptic operations in neural units for robotic image processing applications** was published in International journal of computer applications January -2013,Published by foundation of computer science ,Newyork ,USA.
- ❖ Ravindra Reddy.K,Siva Chandra.K,Anusha.G Publied paper on **Neural units with higher order synaptic operations for robotic image processing applications** was published in International journal of engineering research and applications.ISSN: 2248-9622,Vol:3 Issue:1 ,January-February 2013,PP:738-742.
- ❖ Ravindra Reddy.K,Siva Chandra.K,S.Taj Mahaboob,T.S.Mahammed Basha Publied paper on **Secured data transmission using wavelet based steganography and cryptography** was published in International journal of engineering research and applications.Vol:IV Issue:II ,February 2014.

- ❖ K.RavindraReddy,K. Siva Chandra, P.G. Varna Kumar Reddy published a Paper on “**An Improved Histogram Modification Based on Reversible Data Hiding Algorithm**” in the international journal of Engineering research and application, ISSN : 2248-9622, Vol. 8, Issue 1, ( Part -V) January 2018, pp.61-67
- ❖ K.Ravindra Reddy, K. Siva Chandra, T.S. MahammedBasha, P.G. Varna Kumar Reddy Published a paper on “**Small-Cell Zooming Scheme for Energy Efficient Two-Tier Hybrid Green Cellular Networks**” in “International journal of engineering and techniques special issue ISSN : 2395 - 1303 March 2018.
- ❖ Ravindra Reddy.K,Raghunath Reddy.V,S.Anusha, Publiised paper on **Brain tumor detection and segmentation using conditional random field** was published in International journal of computer sciences and Engineering .Volume:7 Issue:I ,January 2019.
- ❖ Ravindra Reddy.K, shaik taj Mahaboob, Amarnath K Published a Paper on **Low light Image enhancement method based on Non local means using illumination map estimation** was published in International journal of technical innivation in modern engineering and science(IJTIMES).e-ISSN:2455-2585 Volume 4 ,Issue 9 September-2018.
- ❖ K.Ravindra Reddy , P.V.Kusuma has participated as well as presented paper entitled **A Novel Approach for brain tumor detection using Anisotropic filtering and SVM classifier from MRI** at National conference on Innovative technologies in Electrical Engineering **NCITEE2K19** organized by Geetanjali Institute of Science and Technology Nellore and published in special issue (NCITEE2K19)by international Journal of technical innovation in modern Engineering & science (**IJTIMES**) UGC Approved No 47719, e-ISSN:2455- 2585.
- ❖ Ravindra Reddy.K, Raghunath Reddy.V Published a Paper on **Navigation aid with object positioning for blind using RFID and IR sensors: A Proposal** was published in **i-Manager’s** journal on Communication Engineering and systems(JCS) in the issue february-April 2019.
- ❖ Ravindra Reddy.K, Raghunath Reddy.V Published a Paper on **Software defined radio based beacon receiver** A Proposal was published in **i-Manager’s** journal on Communication Engineering and systems(JCS) in the issue May-July 2019.
- ❖ Ravindra Reddy.K,Nageswara Rao.J,P.G.Varna Kumar Reddy,G.Krishna Murthy Published a Paper on **Video text steganography by using discrete wavelet transform** has been published in International journal for research in engineering application and management(IJREAM),volume:07,Issue 05,August 2021(UGC Approved ).
- ❖ Ravindra Reddy.K,Vimala Reddy.B,M.Siva Kumar,T.C.Sanjeeva Rayudu,M.Rajesh,V.Rafi Published a paper on **Spectrum Sensing using cumulative sum Algorithm** has been Published in Mukta Shabd Journal ,Volume:XI,Issue VIII,August/2022(UGC Approved).
- ❖ Ravindra Reddy.K,A.Koteswara Rao,Shaik Taj Mahaboob published a paper on **A Comprehensive study of Authentication and confidentiality for Tacacs server** has been published in International Journal of research in Engineering and Science(IJRES),Volume 10,Issue10,pp:373-374 ISSN:2320-9364.
- ❖ Ravindra Reddy.K,B.Durga Prasad,Shaik Taj Mahaboob published a paper on **A Comprehensive study of Wireless Application protocol and Wireless Communication** has been published in Mukta Shabd Journal,Volume XII,Issue I,January/2023,ISSN No:2347-

3150. DOI:10.0014.MSJ.2023.V11I01.0086781.1136779

- ❖ Ravindra Reddy.K,A.Koteswara Rao,Shaik Taj Mahaboob published a paper on **External server based Authentication using Tacacs Server** has been published in International Journal of research in Engineering and Science(IJRES),Volume 11,Issue21,pp:56-63 ISSN:2320-9364.
- ❖ Ravindra Reddy.K,B.Durga Prasad,Shaik Taj Mahaboob published a paper on **Building Next-Generation Mobile applications with wireless application protocols** has been published in (Indian institution of industrial engineering) **Industrial Engineering journal** : ISSN 0970-2555,Volume:52,Issue 4,No.1,April :2023 UGC Care Approved ,Group 1,Peer revied Journal With IF=6.82.
- ❖ Ravindra Reddy.K,M.Sunil Naik,Shaik Taj Mahaboob published a paper on **Image and Video Deblurring using convolutional neural networks for removing blurrness from images** has been published in (Indian institution of industrial engineering) **Industrial Engineering journal** : ISSN 0970-2555,Volume:52,Issue 5,No.5,May:2023 UGC Care Approved ,Group 1,Peer revied Journal With IF=6.82.
- ❖ Ravindra Reddy.K,M.Sunil Naik,Shaik Taj Mahaboob published a paper on **Image Deblurring using convolutional neural networks: A Comprehensive review of recent advances and techniques** has been published in **Juni Khyat journal** : ISSN 2278-4632,Volume:13,Issue 04 No:04,April:2023 UGC Care Approved ,Group 1 Journal With IF=6.625.
- ❖ Ravindra Reddy.K,K.Sai Pavan,Shaik Taj Mahaboob published a paper on **A review of Flow-Based Image denoising neural networks for separating noise from Images** has been published in **Juni Khyat journal** : ISSN 2278-4632,Volume:13,Issue 04 No:03,April:2023 UGC Care Approved ,Group 1 Journal With IF=6.625.
- ❖ Ravindra Reddy.K,K.Sai Pavan,Shaik Taj Mahaboob published a paper on **A Flow based Image and Video denoising neural networks for separating noise from images** has been published in (Indian institution of industrial engineering) **Industrial Engineering journal** : ISSN 0970-2555,Volume:52,Issue 4,No.4,April:2023 UGC Care Approved ,Group 1,Peer revied Journal With IF=6.82.
- ❖ Ravindra Reddy.K,A.Koteswara Rao,Shaik Taj Mahaboob published a paper on **Server based authentication using TACACS server** has been published in (Indian institution of industrial engineering) **Industrial Engineering journal** : ISSN 0970-2555,Volume:52,Issue 4,No.1,April:2023 UGC Care Approved ,Group 1,Peer revied Journal With IF=6.82.

i) **International Conferences:**

- ❖ Participated in International conference conducted by SRIT-Anantapur. Paper name: **Adaptive down sampling approach using Haar Wavelet for low bit rate image compression** . proceedings will be published in Elsevier Journal.
- ❖ Participated in International conference on Innovative trends in science and Engineering Technologies(ICITSET-2018) conducted by Seventh sense research Group held on 23<sup>rd</sup> september 2018 Paper name: **Intrusion Detection And Monitoring Using IOT**
- ❖ Participated in International conference on Communication and electronics systems (ICCES) organized by PPG Institute of technology during 15-16 october 2018 at Coimbatore tamil Nadu INDIA. Paper name: **Improvement of colour images of to a great degree low light scenes.** will be published in IEEE xplore isbn: 978-1-5386-4765-3

- ❖ Participated in International conference on Future Communication and Internet of Things (ICFCIoT 2019)-ISBN No: 978-93-5351-061-9 Organized by Aditya College of Engineering during 15<sup>th</sup> -16<sup>th</sup> March 2019 at Madanapalle Andhrapradesh India. Paper Name: **A Literature review on Visual Tracking with weighted adaptive local sparse appearance model via spatio- temporal context learning.**
- ❖ Participated in International conference on 3<sup>rd</sup> International conference on current research in Engineering & Technology-3<sup>RD</sup> ICCRET-2019 organized by International association of research and developments in Engineering and technology held at Ramee Guestline Tirupati Andhrapradesh India on 15<sup>th</sup> september 2019. Manuscript title: **Millimeter Wave Mobile Communications for 5G cellular Networks.**
- ❖ Participated in International conference on Cognitive & Intelligent Computing (ICCIC-21) organised by CMR College of Engineering & Technology (UGC Autonomous) during 11-12 December 2021 at Hyderabad. Manuscript title: **Study of Secure data transmission based wavelets using steganography and cryptography techniques.**
- ❖ Participated in International conference on Recent trends in Engineering and Technology (ICRTET-2022) organised by KSRM College of Engineering (UGC-Autonomous), kadapa, Andhrapradesh, India held on 29<sup>th</sup> December 2022. Paper Title: **A Review of Network design and secure routing protocols.**
- ❖ Participated in International conference on Recent trends in Engineering and Technology (ICRTET-2022) organised by KSRM College of Engineering (UGC-Autonomous), kadapa, Andhrapradesh, India held on 29<sup>th</sup> December 2022. Paper Name: **Satellite Image Segmentation**
- ❖ Participated in International conference on Recent trends in Engineering and Technology (ICRTET-2022) organised by KSRM College of Engineering (UGC-Autonomous), kadapa, Andhrapradesh, India held on 29<sup>th</sup> December 2022. Paper Name: **Steno-A Cryptography and steganography based file encryption /Decryption system.**

ii) **National Conferences:**

- ❖ K.Ravindra Reddy, K. Siva Chandra, T.S. MahammedBasha, P.G. Varna Kumar Reddy Presented a paper on “**Small-Cell Zooming Scheme for Energy Efficient Two-Tier Hybrid Green Cellular Networks**” in “National conference on Emerging Trends in Information, Management and Engineering Sciences (NC’e-TIMES # 1.0)” organized by Annamacharya Institute of Technology and Sciences, Rajampet, Kadapa(Dt), on 14th & 15th March 2018.
- ❖ Participated in National conference on Innovative technologies in Electrical Engineering NCITEE2K19 organized by Geetanjali Institute of Science and Technology Nellore held on 30<sup>th</sup> March 2019 Paper Name: **A Novel Approach for brain tumor detection using Anisotropic filtering and SVM classifier from MRI**
- ❖ Participated in National conference on sustainable electronics and applications (NC’SEA-21) on 21<sup>st</sup> August 2021 organized by Department of Electronics and Communication Engineering, Annamacharya Institute of Technology and Sciences, Rajampet. Paper name: **Video Text Steganography by using Disrete Wavelet Transform.**

**Workshops attended:**

- ❖ Participated in five days workshop on Faculty Empowerment programme **MISSION 10X** organised by Wipro Technologies held in JNTUA college of Engineering pulivendula from 26<sup>th</sup> to 30<sup>th</sup> december 2011.

- ❖ Participated in 2-day national level workshop on **“Real time embedded system design concepts ”** organized by Department of ECE ,JNTUA college of Engineering Pulivendula from 16-03-2012 to 17-03-2012.
- ❖ Participated in 3-day national level workshop on **“ wireless sensor networks Vis-à-Vis sensor web enablement”** organized by KL University Vijayawada held on 23-05-2013 to 25-05-2013.
- ❖ Participated in a Five days workshop on **“Pedagogical Training (Module-I)”** conducted by Education and Educational Management Department from 16-12-2013 to 20-12-2013 at NITTR, Chandigarh.
- ❖ Participated in a two day workshop on **“Digital Image Processing and pattern recognition using Matlab-(DIP-PRM 2014)”** Organized by Dept of Electronics & Communication Engineering JNTUACEP, Pulivendula during 24-25 January 2014.
- ❖ Participated in one day workshop on **“Recent trends in Communication System design”**organized by Akademika Lab solutions conducted on 14<sup>th</sup> July 2015.
- ❖ Participated in five days workshop on **“Digital Image Processing and its applications”**organized by department of ECE NIT Warangal during 20<sup>th</sup>& 24<sup>th</sup> July 2015.
- ❖ Participated in Two days hands on workshop on **“Linear Integrated Circuits: A System Approach”**organized by department of ECE JNTUA College of Engineering Pulivendula during 25<sup>th</sup>& 26<sup>th</sup> September 2015.
- ❖ Participated in Three days workshop on **“Signal and image Processing :Practice to research”**organized by School of Electrical Engineering (SELECT),VIT University,Vellore during 25<sup>th</sup>& 27<sup>th</sup> February 2016.
- ❖ Participated in Two days workshop on **“Entrepreneurship development initiative india in collabaration with IEEE hyderabad section”**organized by department of CSE, JNTUA College of Engineering Pulivendula during 16<sup>th</sup>& 17<sup>th</sup> March 2016.
- ❖ Participated in one day workshop on **“TEQIP II sponsored faculty development program on Patent Drafting and Filing”**Conducted at JNTUA College of Engineering Pulivendula on 23<sup>rd</sup> April 2016.
- ❖ Participated in Two days National level hands-on training program on **“MSP 430 & TIVA Microcontrollers”**under Texas Instruments university program from 23<sup>rd</sup> to 24<sup>th</sup> july 2016 organized by department of ECE JNTUA College of Engineering Pulivendula.
- ❖ Participated in Two days workshop on **“VLSI Design Advancements using Xilinx Tools”**organized by department of ECE JNTUA College of Engineering Pulivendula during 26<sup>th</sup>& 27<sup>th</sup> August 2016..
- ❖ Participated in Two days workshop on **“Digital Image Processing and Pattern Recognition and its applications”**organized by department of ECE JNTUA College of Engineering Pulivendula during 19<sup>th</sup>& 20<sup>th</sup> September 2016.
- ❖ Participated in Four days faculty development programme on **“Internet of Things (IOT) for digital world ”**organized by Engineering staff college of India during 19<sup>th</sup>& 22<sup>th</sup> December 2016.

- ❖ Participated a three day Faculty Development Programme on “**MATLAB-Signal Processing with Simulink**” during 7<sup>th</sup>- 9<sup>th</sup> February 2018, Organized by MathWorks Training Services at SreeVidyanikethan Engineering College Tirupathi.
- ❖ Participated a One day Faculty Development Programme on **Deep Learning WithMatlab** held on 13 March 2019 Oraganized by Math works Training services at JNTUA college of Engineering Ananthapuramu.
- ❖ Participated a Two day Faculty Development Programme on **Machine Learning WithMatlab** held on 11-12 March 2019 Oraganized by Math works Training services at JNTUA college of Engineering Ananthapuramu.
- ❖ Participated a Two day Faculty development programme on **Academic Challenges in 21<sup>st</sup> Century** held on 20 & 21<sup>st</sup> May 2019 Organized by Sri Sai Institute of Technology and Sciences Rayachoty, Kadapa District.
- ❖ Participated a five day AICTE Training and Learning (**ATAL**) academy, Gawahathi faculty development programme on “**Artificial Intelligence**” from 02<sup>nd</sup> to 06<sup>th</sup> December 2019 at JNTUA College of engineering Pulivendula.
- ❖ Participated a five day Webinar on “**Simulink an overview**” from 25<sup>th</sup> to 30<sup>th</sup> June 2020 conducted by Data Teach labs.
- ❖ Participated a one week faculty development programme on “**Digital Image Processing with MATLAB**” from 08<sup>th</sup> to 13<sup>th</sup> June 2020 conducted by Data Teach labs.
- ❖ Participated a five day National level online faculty development programme on “ **Trends in Electronics & Communication Engineering**” conducted during 22<sup>nd</sup> -26<sup>th</sup> June 2020,Oraganized by department of ECE, Sri VASAVI ENGINEERING COLLEGE,Tadepalligudem,Andharpradesh.
- ❖ Participated a One day Webinar on “**EXPANDING SCOPE OF ROBOTICS**” held on 21<sup>st</sup> May 2020 Organized by Sri Eshwar college of Engineering, Coimbatore.
- ❖ Participated a One day Webinar on “**Nanoclay Application for environment and energy**” Organized by Department of Applied science Poornima Institute of Engineering and Technology on June 18<sup>th</sup>, 2020.
- ❖ Participated a “**Quiz on Digital electronics** “ conducted by Department of ECE,GMR Institute of technology on 10-06-2020 and secured 84% score.
- ❖ Participated a five day online faculty development programme on “**Research Trends in Image Processing**” held during 15<sup>th</sup> -19<sup>th</sup> June 2020, organized by Department of ECE,GATES INSTITUTE OF TECHNOLOGY,Goody.



- ❖ Participated a three day International online Faculty Development Programme on “**Technologies for Healthcare**” organized by the department of ECE,GMR Institute of Technology,Rajam,India during 8<sup>th</sup> -10<sup>th</sup> June 2020.
- ❖ Participated a one day webinar on “ **IETE Knowledge sharing session(KSS)-102:Webinar-134 on Exploring HFSS: Advanced software for Antenna Design and simulation**” organized by IETE,Hyderabad centre on 11<sup>th</sup> June 2023.
- ❖ Participated a five day faculty development programme on “Advances in materials and manufacturing technologies”held during 26<sup>th</sup> to 30<sup>th</sup> june 2023,organized by department of mechanical Engineering,Kallam Haranadhareddy Institute of technology,Guntur,Andhra Pradesh.
- ❖ Participated a one day workshop on “ Identification of Electronic workshop”organized by Internal quality assurance cell & ECE Department of Indira Institute of technology and sciences,Markapur on 10<sup>th</sup> July 2023.
- ❖ Participated a one day National level guest lecture on the theme of “Nano science and technology for better future” on 30<sup>th</sup> June 2023 jointly organized by the department of physics(DST-FIST Sponsored).Koneru Lakshmaiah education foundation(KLEF),Guntur & Materials research society of INDIA(MRSI),Mumbai.

**Certification :**

- ❖ Successfully completed the **12 Week NPTEL Online certification** course on **Digital Image Processing** With consolidated score of 62%.

**Declaration:**

I hereby declare that the information furnished above is true to the best of knowledge

(K.Ravindra Reddy)

Date:15-06-2023  
Pulivendula