

CIRRICULAM VITAE

Dr.K. Upendra Raju
#204, NRR Galaxy Apartment,
Opp. Mangalam Outpost Police Station,
Mangalam,
Tirupati-517507,
Andhra Pradesh, India.
Ph No: +91-9849436315, +91-9182146045
E-mail:kupendraraju@gmail.com



OBJECTIVE:

I am looking forward to work in an organization, which offers a challenging career, congenial work atmosphere, provide scope for individual development and career growth & where I can apply my logical and analytical skills and contribute to the success of the organization.

EDUCATIONAL QUALIFICATIONS:

QUALIFICATION	NAME OF THE UNIVERSITY	YEAR OF PASSING	% / CGPA
Ph.D	V.I.T. University, Vellore, India	2023	A Grade
M.Tech. (Communication Engineering)	Vellore Institute of Technology (Deemed University), Vellore, India	2003-2005	9.23 CGPA
B.E (Electronics & Communication Engineering)	Madras University, Chennai, India	1998-2001	73
Diploma in E.C.E	State Board of Technical Education, A. P., India	1993-1996	78

PROFESSIONAL MEMBERSHIPS:

- Life member of IETE (M-192501)
- Life member of ISTE (LM 49953)

Book Published

1. A Book title on “**Fundamentals of MATLAB Programming**” Published in InSc International Publisher, ISBN: 978-1-956102-06-2, 2021

AWARDS:

1. Awarded **Yuva Acharya Award** from Bharat Education Excellence Award in 2020-21.
2. Awarded **Research Excellence Award** from Institute of Institutional Industrial Research in 2020.
3. Awarded **Best Researcher** from International Journal for Research Under Literal Access in 2018.

WORK EXPERIENCE:

1. Presently working as Associate Professor of E.C.E at S.V. College of Engineering, Karakambadi Road, Tirupati, Andhra Pradesh, India from Jun 2017 to till date.
2. Worked as Associate Professor and Head of Department of E.C.E at K.L.M College of Engineering for Women, Kadapa, Andhra Pradesh, India from July 2010 to May 2017 (7 years).
3. Worked as Training & Placement officer (TPO) and Assistant of Examination Section at K.L.M College of Engineering for Women, Kadapa, Andhra Pradesh, India from July 2010.
4. Worked as Associate Professor in Sreenivasa Institute of Technology And Management Studies (SITAMS), Chittoor, Andhra Pradesh, India from May 2005 to June 2010 (5 years).
5. Worked as Lecturer in E.V.P Engineering College, Chennai, India from April 2001 to June 2003 (2 years).

ONLINE COURSES & CERTIFICATION PROGRAMS:

1. National Initiative for Technical Teachers Training (NITTT) Modules (8 modules) successfully completed in 2021 – 22.
2. NPTEL Online Certification Course of “*Deep Learning*” for 12 week course (Jan - Apr 2020) conducted by IIT Kharagpur.
3. NPTEL Online Certification Course of “*Cryptography and Network Security*” for 12 week course (Jan - Apr 2019) conducted by IIT Kharagpur.
4. IUCEE (Indo-Universal Collaboration for Engineering Education) International Engineering Educator Certificate Program (IIEECP) completed from July 2018 to Jan. 2019.

5. NPTEL Online Certification Course of “*Advanced Topics in Probability and Random Processes*” for 8 week course (Aug - Sep 2018) conducted by IIT Guwahati
6. NPTEL Online Certification Course of “*MATLAB Programming for Numerical Computation*” for 8 week course (Feb - Mar 2018) conducted by IIT Madras.
7. COURSERA Certification of “*Fundamentals of Digital Image & Video Processing*” for 12 weeks course (Oct.2017 - Jan. 2018) conducted by Northwestern University, USA.
8. NPTEL Online Certification Course of “*Digital Image Processing of Remote Sensing Data*” for 4 week course (Jul - Aug 2017) conducted by IIT Roorkee.

ADDITIONAL RESPONSIBILITIES:

1. Acting as IIRS-ISRO Outreach Programme coordinator of S.V. College of Engineering, Tirupati from 22nd June 2020 to till date.
2. Acting as IUCEE SCALE Students Leadership Course coordinator / Mentor of S V College of Engineering, Tirupati from June to October 2019.
3. Acting as in-charge of Affiliation works (AICTE/NIRF/JNTUA FFC) and College level Time Table In-charge of S.V College of Engineering, Tirupathi from 2018-19 I semester to till date.
4. Acting as a coordinator in “*A National Level Students Technical Symposium TECHNOFEST 2K14*” at K.L.M College of Engineering for Women, Kadapa conducting on 11th April 2014.
5. Acting as a coordinator in “*A National Level Students Technical Symposium TECHNOFEST 2K11*” at K.L.M College of Engineering for Women, Kadapa conducting on 24th September 2011.
6. Acting as a coordinator in “*A National Level Students Technical Symposium TECHNOFEST 2K10*” at K.L.M College of Engineering for Women, Kadapa conducting on 21st October 2010.
7. Acting as a “*National Board of Accreditation (NBA)*” coordinator in ECE Department at Sreenivasa Institute of Technology And Management Studies (SITAMS), Chittoor, Andhra Pradesh

RESOURCE PERSON:

1. As a Resource Person of one Day live webinar on “*MATLAB Programming*” in the Department of ECE at Narayana Engineering College, Gudur on 18th June 2020.

2. As a Resource Person of one Day deliver lecture on “*MATLAB Programming*” in the Department of ECE at S.V. College of Engineering, Kadapa on 23rd March 2019.
3. As a Resource Person of one Day workshop on “*Fundamentals of MATLAB*” Organized by Department of ECE on 17th August 2017 and 1st Feb. 2019 at S.V. College of Engineering, Karakambadi Road, Tirupati.

PAPERS PUBLISHED IN JOURNALS:

1. K. Upendra Raju, N.Amutha Prabha “*Fast Hierarchical Deep Convolutional Neural Network and Fractional Order Discrete Tchebyshev Moments Based Encryption for Reversible Data Hiding in Encrypted Image*”, Proceedings of Computing and Informatics, ISSN 2585-8807, Accepted, **SCI, IF: 0.974. (SCI)**
2. K. Upendra Raju, N.Amutha Prabha “*A Steganography Embedding Method Based on CDF-DWT Technique for Reversible Data Hiding Application Using Elgamal Algorithm*”, Proceedings of International Journal of Foundations of Computer Science, Vol. 33 (6 & 7), pp. 489-512, ISSN.1793-6373, **World scientific, SCI, IF: 0.662. (SCI)**
3. K. Upendra Raju, N.Amutha Prabha “*Error-Free and Mean Value Based Reversible Data Hiding using Gravitational Search Algorithm in Encrypted Images*”, Proceedings of Multimedia Tools and Applications, vol. 81 (1), pp: 30749-30768, ISSN.1573-7721, **Springer, Impact factor: 2.757 (SCI)**
4. K. Upendra Raju, N.Amutha Prabha “*Dual images in reversible data hiding with adaptive color space variation using wavelet transforms*”, Proceedings of International Journal of Intelligent Unmanned Systems, vol.11 (1), pp: 96-108, ISSN.2049-6427, **Emerald Group, Impact Score: 1.55 (SCI)**
5. K. Upendra Raju, N.Amutha Prabha “*Improved Data Security using Lossless and Reversible Data Hiding Technique in Encrypted Images with Hybrid Firefly Algorithm*”, Proceedings of Journal of Advanced Research in Dynamical & Control System, vol.11, No.8, page no.163-171, 2019, ISSN.1943-023X. **Scopus.**
6. K.Upendra Raju, T.Hemalatha “*A Novel Method for Reversible Data Hiding Based On Distributed Space Reservation*” in International Journal of research (IJR), Vol. 8, Issue No. 3, March. 2019, PP: 340 – 345, ISSN 2236 – 6124.
7. K.Upendra Raju and Dr.N.Amutha Prabha “*A Review Of Reversible Data Hiding Technique Based On Steganography*, in ARPN Journal of Engineering and Applied Sciences, Vol. 13, No. 3, Feb. 2018, PP: 1105 – 1114, ISSN 1819 – 6608. **Scopus.**

8. K.Upendra Raju and M.Charitha “*Electronics Voting System using Finger Print based on Aadhar*”, Proceedings of International Journals of Advanced Engineering Research and Science (IJAERS), Sept. 2017, Issue-4, PP. 96-9, ISSN:2349-6495.
9. K.Upendra Raju, “*A New Approach for secret image sharing by using Block based Mosaic images by RCM*”, Proceedings of International Journals of Professional Engineering Studies, during June 2015, volume-5, issue-2.
10. K.Upendra Raju, “*An Automatic Vehicle Number Plate Detection by a Fast Vertical Edge Detection Algorithm*”, Proceedings of International Journals of Innovative Technologies during June 2015, volume 03, issue 02, Page 68-76.
11. K.Upendra Raju, “*Robust Video Watermarking Using DWT and PCA Analysis*”, Proceedings of International Publisher for Advanced Scientific Journals on August 2014, volume 2, issue 8, Page 10-15.
12. K.Upendra Raju, “*Low Power, Area and Delay Efficient Carry Select Adder Using Bec-1 Converter*”, Proceedings of International Journal of Engineering Research and Development on August 2013, volume 8, issue 2, Page 01-07.

PATENTS:

1. K.Upendra Raju “*High Gain and Enhanced Slew rate CMOS Operational Amplifier*”, Indian Patent, Application No.:202341005234 A, Publication date: 03.02.2023.
2. K.Upendra Raju “*Machine Learning and Data Science based Big data Analytics of Patients suffering from Lungs cancer*”, Indian Patent, Application No.: 202331002664 A, Publication date: 20.01.2023.
3. K.Upendra Raju “*Noise Filtering System for Digital Signal Transmission*”, Indian Patent, Application No.:201941041493 A, Publication date: 25.10.2019.

PAPERS PUBLISHED IN CONFERENCES:

1. K.Upendra Raju, Dr.N.Amutha Prabha “*Chaos Encrypted Images on Lossless and Reversible Data Hiding using Wavelet Transform*”, in the International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC-2020), held on 27th and 28th Feb. 2020 at VIT, Vellore.
2. K.Upendra Raju, Dr.D.Srinivasulu Reddy and M.Sadasiva “*S-Transform based Time Frequency Analysis of Non stationary Signals*”, in the National Conference on Advancements in Microwave Engineering (NCAME- 2K18) , held on 24th and 25th Jan. 2019 at SVEW Tirupati.

3. K.Upendra Raju, Dr.N.Amutha Prabha and Dr.D.Srinivasulu Reddy “ *Reverseible image data hiding based on prediction-error of prediction error histogram (PPEH)*”, in the International Conference on advanced Communication Systems (ICACS-2K17) , Oct.2017, PP.75-78 , ISBN-978-93-5288-058-4 at SVEW Tirupati.
4. K.Upendra Raju, and D. Srinivasulu Reddy, “*Performance Analysis of Wireless Mobile Networks using Call Admission Control schemes*”, Proceedings of National Conference on Emerging Trends in Communications & Signal Processing Techniques “SANKETA-2012, 21st January 2012.
5. K.Upendra Raju, M.D. Selvaraj and Dr. R. Nakkeeran, “*Novel call admission control scheme for CDMA networks under burst traffic conditions*”, Proceedings of National Conference on VESCOM 2005, April 2005
6. K.Upendra Raju M.D. Selvaraj and R. Santhakumar, “*An analysis of uplink and downlink channel estimation for multi rate DS-CDMA systems*”, Proceedings of NCWN, SVCE, Sriperumbudur, February 2004.

SEMINARS / WORKSHOPS ATTENDED:

1. Participated three weeks on “*AICTE Student Learning Assessment*” - STTP PARAKH in collaboration with Construction Industry Development Council (CIDC) from 22 Nov. 2021 to 19 Dec. 2021
2. Participated in AICTE – ISTE refresher Programme on “*Python Programming for Image Processing and IoT*” from 20th – 31st May. 2021 at Geethanjali Institute of Science and Technology, Nellore.
3. Participated in AICTE Training and Learning (ATAL) Academy online FDP on “*Machine Learning*” from 18th – 22nd Jan. 2021 at Indian Institute of Information Technology (IIIT), Dharwad.
4. Participated in AICTE Training and Learning (ATAL) Academy online FDP on “*Data Science using Python*” from 23rd – 27th Nov. 2020 at Government Polytechnic, Gandhinagar, Gujarath.
5. Participated in AICTE Training and Learning (ATAL) Academy online FDP on “*Recent Trends and Applications in Biomedical Signal and Image Processing*” from 21st – 25th Sep. 2020 at G.H Rasoni College of Engineering, Nagpur.
6. Participated in AICTE recognized FDP on “*Artificial Neural Network and its Application*” conducted by ECE Department from 27th – 31st Jan. 2020 at S V College of Engineering, Tirupati in association with NITTTR, Chandigarh.

7. Participated in MeitY, Govt. of INDIA sponsored One Week Faculty Development Program (FDP) on “*Machine Learning And Deep Learning*” organized by E & ICT Academy, NIT, Warangal at S V College of Engineering, Tirupati from 12th – 17th Nov. 2018.
8. Participated in AICTE recognized Short Term Course on “*4G & 5G through ICT*” conducted by ECE Department from 17th – 21st Sep. 2018 at S V College of Engineering, Tirupati.
9. Participated in A Two day National Level Seminar on “*Medical Big Data: Neurological Diseases Diagnosis Through Medical Data Analysis*” held during 11-08-2018 & 12-08-2018 at S V College of Engineering for Women, Tirupati
10. Participated in IUCEE International Engineering Educator Pre-Certification Workshop conducted by Dr. Rio D’Souza, St.Joseph Engineering College Organized by Godavari Institute of Engineering and Technology, Rajahmundry during 12th -14th July 2018.
11. Participated in AICTE recognized Short Term Course on “*Outcome Based Curriculum through ICT*” conducted by Curriculum Development Center from 25th – 29st June 2018 at S V College of Engineering, Tirupati.
12. Participated in ICMR sponsored A Two Day National Level Seminar on “*Cancer Detection Using Digital Image Processing Techniques*” Organized by Department of ECE, S.V. Engineering College for Women, Karakambadi Road, Tirupathi during 22nd -23rd June 2018.
13. Participated in ICMR sponsored “*National Workshop on Bio-medical Imaging and Analysis with Deep Learning Techniques*” Organized by R & D Cell on 5th & 6th March 2018 at S.V. College of Engineering, Karakambadi Road, Tirupati.
14. Participated in two Day Workshop on “*IoT and its applications using MSP-430*” Organized by Department of ECE, S.V. Engineering College for Women, Karakambadi Road, Tirupati with Texas Instruments, Bangalore during 21st -22nd December 2017.
15. Participated in one Day Workshop on “*MATLAB for Image Processing Application*” Organized by R & D Cell on 30th June 2017 at S.V. College of Engineering, Karakambadi Road, Tirupati.
16. Participated in one Day Workshop on “*Awareness on Washington Accord for Outcome Based Education*” on 4th August 2015 at JNTUA College of Engineering (Autonomous), Ananthapuramu.

17. Participated in Phase – I on 3rd Feb. 2014 (webinar) and Phase – II on 21st – 23rd March 2014 workshops on “*Outcome Based Education & Accreditation* ” at JNTUA College of Engineering (Autonomous), Pulivendula, Y.S.R. Kadapa (Dist.), Andhra Pradesh.
18. Participated in TEQIP Sponsored Two day National workshop on “*Digital Image Processing and Pattern Recognition using MATLAB*” organized by the Department of ECE, JNTUA college of Engineering (Autonomous), Pulivendula during 24th & 25th January 2014.
19. Attended a One Day workshop on “*Corporate Communication for Placements Success*” conducted under UGC Schemes of the university at JNTUA College of Engineering (Autonomous), Ananthapuramu on 28th March 2012.
20. Attended the complementary seminar on “*MATLAB & Simulink for Engineering Education*” at Sreenivasa Residency, Kadapa on 6th September 2011.
21. Attended the AICTE Staff Development Programme on “*Wavelets and Multiresolution Processing*”, organized by Mepco Schlenk Engineering college, Sivakasi, Tamilnadu during November 12 – 23, 2007
22. Attended a Two Day National Seminar on “*High Speed Intelligent Communication Networks*”, sponsored by AICTE, New Delhi, organized by Department of CSE, Sree Vidyanikethan Engineering College, Tirupathi, during 7-8 July 2006.
23. Attended a Short term course on “*VLSI Design*”, sponsored by ISTE & Department of ECE, LBR College of Engineering, Mylavaram during 22nd – 27th May 2006.
24. Participated in One day workshop on “*Image and Video Compression – Basics and Approaches*” organized by Department of ECE, V.I.T, Vellore on 28th Feb. 2004.

SOFTWARE SKILLS:

OS : Windows 10

Languages known : MatLab, DSP Code Composer Studio, Multisim, Latex

AREAS OF INTEREST:

- Cellular & Mobile Communications
- Advanced Digital Communications
- Digital Image Processing
- Digital Signal Processing
- Signals & Systems

- Digital Systems
- Probability Theory & Stochastic Processes
- Electromagnetic waves and Transmission Lines
- Antennas and Wave Propagations
- MATLAB Programming

PROFILE:

- Ability to grasp new ideas and integrate them into desired results.
- Able to prioritize and operate proactively.
- Commended for reliability and trustworthiness.
- Interested in handling challenging.

DECLARATION:

I here by declare that the above information furnished here is true to that of my knowledge and belief.

Place: Tirupati

Date: 25.12.2023



(Dr.K. Upendra Raju)