R E S U M E

Dr.K.N. PRAKASH
        B.Tech, M.Tech,Ph.D (JNTUK)
Professor of ECE,
Seshadri Rao Gudlavalleru Engineering College
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SUMMARY :

- **27 years of Teaching, Research and Administrative Experience** in AICTE recognized Engineering Colleges, taught UG and PG courses, guided students in projects and technical paper contests, organized technical symposia, conferences and workshops.

EDUCATIONAL QUALIFICATIONS:
- Ph.D (ECE) on Content Based Image Retrieval From Jawaharlal Nehru Technological University, Kakinada, Andhra Pradesh, March 2014.
- M.Tech (ECE-CAID) With First Class from Visveswaraiah Technological University, Belgaum, Karnataka, 2001.
- B.Tech in Electronics and Communication Engineering from Nagarjuna University A.P. 1997. (Bapatla Engg.College, Bapatla.)

ACADEMIC EXPERIENCE:

- Professor of ECE in Seshadri Rao Gudlavalleru College of Engineering, Gudlavalleru, Krishna (Dt.) A.P. from 05-10-2016 to Till date. **(Ratified as Professor by JNTUK, Kakinada,A.P**)
- Professor of ECE in L.B.R. College of Engineering, Mylavaram, Krishna (Dt.) A.P. from June 2014 to 04-10-16. **(Ratified as Professor by JNTUK, Kakinada,A.P**)
- Professor & HOD of ECE in Sri Vasavi Institute of Engg. & Technology, Machilipatnam, A.P. from June 2013 to May 2014.
- Associate Professor, Department of ECE in KL University, Vaddeswaram, Guntur, A.P, from Dec 2009 to May 2013.
- Associate Professor, Department of ECE in L.B.R. College of Engineering, Krishna Dt., A.P. from June 2007 to Nov 2009.
- Associate Professor & HOD of ECE in Hi-Tech College of Engineering & Technology, Hyderabad, A.P. from June 2004 to May 2007.

- Assistant Professor of ECE in L.B.R. College of Engineering, Krishna Dt., A.P. from Dec 2002 to May 2004.
- Assistant Professor of ECE in VITS, Kavali, A.P. from June 2001 to Dec 2002.
- Lecturer & HOD of ECE in Samuel George Institute of Engineering and Technology , Markapur, Andhra Pradesh from 1997 to 1999.

RESEARCH INTERESTS: Signal and Image Processing, Machine Learning
Computer Vision, Image Retrieval, Object Detection

PH.D Supervision:

S.No	Name of the Scholar	University	Year of Registration	Place of Working
1	S. Srinivasa Reddy	KL University	Awarded	LBRCE
2	Naga Devi.D	JNTU K	Awarded	CBIT,Hyderabad
3	Suresh Bojja	JNTU K	2015	ASIST, Vijawada
4	V Leela Kumar	JNTU K	2022	VBIT Hyderabad

RESEARCH PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:

1. Ch. Balaswamy, **K.N. Prakash** and CH. HimaBindu, An Energy Efficient Routing Protocol based on Periodic Route Discovery for Mobile Ad Hoc Net works, International Journal of Next-Generation Networks (IJNGN) Vol.3, No.1, March-2011, ISSN : 0975-7252

2. M.Ravi Tej Kumar, M.Manoj Kumar and **K. N. Prakash,** Re-Ranking Process for Image Based Retrieval using Geometric Techniques, International Journal of Computer Technology and Applications,Dec-2011

3. **K. N. Prakash,** K.Akshay, G.Sindhuri and G.Apuroop Robust Non-Oblivious DWT-Adaptive Invisible Digital Watermarking, International Journal of Computer science and Engineering, Dec-2011.

4. **K N Prakash** and Dr.K Satya Prasad, HSV Color Motif Co-Occurrence Matrix for Content Based Image Retrieval, Intr. Journal of Computer Applications, Vol. 48, No. 16,PP:8-14, June 2012.

5. **K.N.Prakash ,**Dr. K. SatyaPrasad, M-Band Dual Tree Complex Wavelet Transform for Texture Image Indexing and Retrieval, Intr. Journal of Advances in Engineering & Technology, Vol. 4, No. 1, pp. 661-671, July 2012.

6. Jayavani.A, **K.N.Prakash**, Dual Tree complex wavelet transform for Digital watermarking , Intr. Journal of Advances in Engineering & Technology, Sep 2012.

7. **K.N.Prakash,** K.Akshay, N.SwethaLakshmi, Mobile Operated campus application for retrieval of college server data using wi-Fi connection, Advances in computer science and its applications, June 2012.

8. T.Sravanthi ,**K.N.Prakash,** Efficient software defined radio using OFDM for high data rate transmission, Intr. Journal of Engineering research and applications, June 2012.

9. V.Sri rama pavan kumar and **K.N.Prakash**, sensorless dust cleaning in motors using controllers, GJCAT,2012.

10. T.Sravanthi, **K.N.Prakash,** Designing and implementation of secured OFDM communication on a multi-core software defined radio platform, Intr.Journal of engg. Science and advanced technology, Feb-2012.

11. K.PrasanthiJasmine, Dr.P.Rajeshkumar and **K.N.Prakash,** An Effective Technique to compress images through hybrid wavelet –ridgelet transformation, Intr. Journal of Engineering research and applications, Aug 2012.

12**. K.N.Prakash,** Dr.K.Satya Prasad, Sign LTP and Magnitude LTP for Image Indexing Retrieval, International Journal of Signal and Imaging Systems Engineering. *Vol 6,No.4, PP. 227-239, 2013* Impact Factor:2.3- **Inderscience-Scopus Indexed.**

13 **K.N.Prakash** and Dr.K.Satya Prasad, Multi-Resolution Local Ternary Patterns for Image Indexing Retrieval, International Journal of Computational Vision and Robotics, *Vol.3,No.3,PP.148-166,2013* – **Inderscience-Scopus Indexed**.

POST Ph.D Publications:

14**.K.N. Prakash** and Dr.K.Satya Prasad, Color Local Binary patterns for Image Indexing and Retrieval, International Journal of Intelligent systems and Applications, 09, 68-74, 2014.

15. M.Satya Srilakshmi**, Dr. K N Prakash**, "Palm print recognition by using enhanced completed local binary pattern(CLBP) for personal recognition, International research Journal of Engineering and Technology", vol-02,Issue-05, Aug-2015.

16 S.Srinivasa reddy, **K N Prakash**, "A high performance hybrid technique of microaneurysm extraction using vessel suppression and connected component extraction", International review on computers and software, Vol.10, No.10, Oct-2015. **(scopus)**.

17. K P. Jasmine, P.R. Kumar, **K N Prakash** "Color and Multi-Resolution DBC Co-occurrence Matrix for image retrieval" Industrial Science, vol-1, Issue-10, April-2015, ISSN 2347-5420.

18. K P. Jasmine, P.R. Kumar, **K N Prakash** "Gaussian DBC co-occurrence matrix for content based image indexing and retrieval" International Journal of Engineering Trends and Technology", vol-19, Issue-02, Jan-2015.

19. K P. Jasmine, P.R. Kumar, **K N Prakash** "Color Histogram and Multi-Resolution LMEBP Joint Histogram for Multimedia Image Retrieval" International Journal of Engineering of Advanced research in Electrical, Electronics and Instrumentation Engineering", vol-04, Issue-04, April-2015.

20. Y.Padma, **Dr. K N Prakash** "Dual tree complex wavelet transform for medical Image fusion" International research journal of Engineering and Technology"(IJRET),Vol.3,Issue.6, Sep-2016.

21. S.Srinivasa reddy, **K N Prakash**, "Micro aneurysms extraction with vessel neighborhood separation, svm and connected component extraction" ARPN Journal of Engineering and Applied Physics, Vol.12, No.7, April-2107. **(Scopus).**

22. K.Rasoolreddy, **Dr. K N Prakash**, Dr. K Prasanthi Jasmine, "Satellite image resolution enhancement based on dual-domain filtering", International journal of Engineering and Technology,vol.7,(2.7), 2018, 466-469. **(Scopus)**

23. Durga Bhavani, **Dr. K N Prakash** "Non-Uniform Motion Blur for Face Recognition", IOSR Journal of Engineering (IOSRJEN), Vol.8, Issue.6, June-2018, PP: 46-52.

24. S. S. Reddy, Dr. M. Suman, **Dr. K N Prakash**, "Micro aneurysms detection using artificial neural networks" International journal of Engineering and Technology,vol.7,(4), 2018, 3026-3029. **(Scopus)**

25. **Dr. K N Prakash**, K Ramya "Currency note Identification using wavelet transform analysis" Journal of applied science and computations,Vol.6,Issue3,March-2019,PP:108-116. **(UGC Approved Journal)**

26. **Dr. K N Prakash**, A Tasneem "Prevention of Accidents using embedded systems" Journal of applied science and computations,Vol.6, Issue.8 ,March-2019, PP:308-312. **(UGC Approved Journal)**

27. **Dr K N Prakash,** Parimi Hema, K. Prasanthi Jasmine " A Roboust Texture Based ear and palmprint recognition using histogram of oriented gradients" International Journal of Engineering and Advanced Technology.(IJAET) Vol.8, Issue-6, August 2019,PP:1964-1971. ISSN:2249-8958 (**Scopus**)

28. Nagadevi D, **Dr. K N Prakash**, Dr. B T Krishna "Research of Machine Learning Algorithms using K-Fold Cross Validation" International Journal of Engineering and Advanced Technology.(IJAET) Vol.8, Issue-6S, August 2019,PP:1964-1971,ISSN:2249-8958 (**Scopus**)

29.**Dr. K N Prakash**, Dr. K Prasanthi Jasmine ,K.Rasoolreddy, "Face recognition based on Local Binary Pattern-Deep belief network" Computer-Aided Developments: Electronics and Communication, **CRC Press, Taylor and Francis Group**, *London, 2019,ISBN 978-0-429-34071-0(e-Book) PP:143-148.*

30.Suresh Bojja, **Dr K N Prakash** " Color Texture analysis of Face spoof Detection using CNN Classifier" International Journal of Engineering and Advanced Technology(IJAET) , Vol.9, Issue-1, October, 2019, PP: 5037-5046, ISSN:2249-8958 (**Scopus**)

31. yasaswi Tatineni, **Dr K N Prakash**" Content based image retrieval using feature extraction with KNN algorithem" International Journal for Interdisciplinary sciences and Engineering Applications (IJISEA) , Vol.1, Issue-2, Sep- 2020, PP: 1-7, ISSN:2582-6379.

32. Mounishanjali**, Dr K N Prakash**" Network Intrusion Detection using Supervised Machine Learning Technique with Feature Selection" International Journal for Interdisciplinary sciences and Engineering Applications (IJISEA) , Vol.1, Issue-2, Sep-2020, PP: 8-16, ISSN:2582-6379.

33. Abdul Sofia Sultana, **Dr K N Prakash**" Color Texture Analysis with NNC for detection of Spoofing Face and Liveness Face in Biometrics" International Journal for Interdisciplinary sciences and Engineering Applications (IJISEA) , Vol.1, Issue-3, Nov-2020, PP: 1-19, ISSN:2582-6379.

34. Suresh Bojja**, Dr K N Prakash**" Face Liveness and Spoof Face Detection and role of Different Classifiers-An Image Processing Perspective" International Journal for Interdisciplinary sciences and Engineering Applications (IJISEA) , Vol.1, Issue-2, Sep-2020, PP: 27-35, ISSN:2582-6379.

35. Nagadevi Darapureddy, **Nagaprakash Karatapu**, Tirumala Krishna Battula "Local Derivative Vector Pattern: Hybrid Pattern for Content Based Medical Image Retrieval" in Review of Computer Engineering Studies on December 31, 2020. Vol. 7, Issue 4, pp.79-86 ISSN: 2369-0755. DOI: 10.18280/RCES.070401 **(Publons I ndexed)**

36. Nagadevi Darapureddy, **Nagaprakash Karatapu**, Tirumala Krishna Battula" Comparative Analysis of Texture Patterns on Mammograms for Classification" Traitement du Signal, Vol.38, No.2,April 2021,PP:379-386,ISSN:0765-0019. DOI:10.18280/ts.380215 **(SCI Indexed)**

37. Nagadevi Darapureddy, **Nagaprakash Karatapu,** Tirumala Krishna Battula (2020) "Optimal weighted hybrid pattern for content based medical image retrieval using modified spider monkey optimization" in International Journal of Imaging Systems and Technology (IMA), volume 31, Issue 2, June 2021, PP: 828-853, ISSN: 0899-9457 DOI:10.1002/ima.22475**(SCI Indexed)**

38. **Dr K N Prakash**, Y Usha Sri "Facial Expression recognition using Deep Learning Techniques" International Journal of research and analytical reviews(IJRAR) Vol.10, Issue 2, April 2023,PP:917-919,E-ISSN:2348-1269.

39. **Dr K N Prakash**, Manoj "An efficient detection of counterfeit currency using a Hybrid framework" International Journal for Innovative engineering and management research (IJIEMR) **Elsevier-SSRN,**Vol.12, Issue 3, March 2023,PP:208-211,ISSN:2456-5083.

40. **Dr K Nagapraksh**,P. vandana "Enhancing Parkinson's Disease Detection Accuracy Through Vocal Biomarkers: A Refined Model Approach" International Research Journal of Engineering and Technology **(IRJET),** Vol.11, Issue 4, April 2024,PP:1092-1097,ISSN:2395-0072.

41. **Dr K N Praksh**,Ch. rani " Arrhythmia detection based on ECG using RESNET model" Journal of Emerging Technologies and Innovative Research **(JETER),** Vol.11, Issue 4, April 2024,PP:i347-i353,ISSN:2349-5162.

- **One patent Published.**

Research Papers Presented/Selected in Conferences:

S.No	Title of the Paper	Conference
1	Color Local Binary patterns for Content Based Image Retrieval	International Conference on Image Processing and Vision systems (ICIPVS-2011), Bhubaneswar, India, 29-30 Oct-2011
2	Multi-Resolution DBC Co-occurrence Matrix for texture for texture image indexing and retrieval	Fifth International Conference on advances in communications, network and computing:CNC:2014, , 29-30 Oct-2014 Chennai, India
3	Microaneurysms extraction with vessel neighborhood separation, svm amd connected component extraction	IEEE 6th-International Conference on Advanced computing conference (IACC 2016), SRKR-Bhimavaram,A.P: Feb.27-28: **2016.(SCOPUS)**
4	Face recognition based on local binary pattern-Deep belief network.	Second International Conference on Innovation Research in Science, Technology and Management (ICIRSTM-2018), Sep-29-30:2018 in **NUS-Singapore**

WORKSHOPS ATTENDED

- Three Day workshop on "Harnessing AI for Healthcare Transformation- A Collaborative Indo US Workshop 2024" hosted by Dept. Of CSE, **IIT-Hyderabad** during December 16-18, 2024.
- One Week Faculty Development Programme on "AI for Engineering Applications" conducted by Dept. of ECE, **NITTTR**, **Chandigarh** during 04/11/2024 to 08/11/20124.
- One Week online Faculty Development Programme on "Quantum Signal Processing" organized by Dept. of ECE ,LBRCE, **Mylavaram, A.P** during 14/12/2023 to 20/12/2023
- One Week National Level Faculty Development Programme on "National Educational Policy 2020-Challenges in Implementation in Higher Education" organized by Dept. of EEE,IT and Physics ,CBIT, **Hyderabad** during 18/03/2024 to 23/03/2024.
- One Week Training Programme on "Development of Signal and Image Processing applications Using LABVIEW" organized by Dept.of EIE, V R Siddhartha Engg. College , Vijayawada during 25 Feb-1 March:2019.
- One Week Faculty Development programme on "Machine Learing Applications in Signal Processing" organized by E&ICT Acadeny,NIT-Warangal ans Dept.of ECE, Gudlavalleru Engg. College during 4-9 Feb.2019.
- One Week Faculty Development programme on "Communications and Signal Processing" organized by Dept.of ECE, Gudlavalleru Engg. College during 29 Oct- to 3 Nov:2018.
- A Two Day Faculty Development programme on "Reaesrch Issues in Cognitive Radio Networks" organized by Communications reaesrch Group ,Dept.of ECE, Gudlavalleru Engg. College during 9-10 Jan.2017.
- Two Day Faculty training programme on "Advances in VLSI Design and Embedded Systems" organized by Dept.of ECE, Gudlavalleru Engg. College during 6-7 Nov.2017.
- One Day Workshop on "**Arm Processor and Development Tools**" conducted by Dept of ECM, K. L. University in association with Pantech solutions on 15 sep 2011.
- A Six Day intensive course on "**Signal Processing**" conducted by IUCEE at K.L. University, Guntur, A.P, June 8 – 13, 2010.
- A Six Day Certified Training Program on "**Designing with VHDL & FPGA**" conducted by CoreEL Technologies at K.L. University, Guntur, A.P, 29th April-4th May, 2010.
- Two week Short Term Training Programme on "**Transform Techniques in Signal Processing**" from 8th June to 20th June, 2009 Under AICTE Sponsored Staff Development Programme at Laki Reddy Bali Reddy College of Engineering, Mylavaram, Krishna Dt..
- Two Day Workshop on "**Communications and Signal Processing-A Research Perspective**" at Vignan's Engineering College, Guntur from 28th June – 29 June, 2008.
- A Two Day National level workshop on "Adaptive **Signal Processing & Application**s" organized by IETE Vijayawada Center &Dept of ECE, LBRCE at Laki Reddy Bali Reddy College of Engineering, Mylavaram, and Krishna Dt. 27-28 October 2007.
- A Two Day National level workshop on "**Wavelet Transforms & Image Processing**" at Mahaveer Institute of Science &Technology, Hyderabad, A.P, 21-22 Dec 2006.
- A Two Day National Convention on "**Multi Layer Industry Institution Interaction in the Global Context**" conducted by ISTE, AP section at Hyderabad, Jan 7-8, 2006.

PROJECTS & WORKSHOPS APPLIED:

- Applied for UGC research awards.
  Signal and Image Processing workshop Proposal for DST.

  MATRICS (Mathematical Research Impact Centric Support) proposal for DST.

PROFESSIONAL MEMBERSHIP: Fellow of IETE (F 236770)
                                          Life Member of ISTE (LM 102148)

ADMINISTRATIVE EXPERIENCE:

- HOD and I/C Principal
- As Subject Expert for Ratification Inteviews
- Converner for Annual day Celebrations
- Convener for the International Conference **CITAES-18**.
- EAMCET Observer.
- BOS Member of Usharama College of Engg. &Technology.
- External Examiner for M.Tech and B.Tech Viva-Voce
- Member of Academic Council Committee.
- Member of Board of Studies.
- Coordinator for NAAC & NBA.
- Coordinator for M.Tech & B.Tech Projects
- Coordinator for Discipline Committee.
- Coordinator for Student counseling.
- In charge of Examinations.
- Coordinator, For National level Students Technical Paper Contest.

Date :
Place: Signature of the candidate
                                                      (Dr. K. N. PRAKASH)