

TELAGARAPU.PRABHAKAR B.E.,M.Tech.,(Ph.D).,LMISTE.,MIEEE.

(D.O.B 16-06-1977)

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Rajam,Srikakulam District,Andhra Pradesh,532127.

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CURRENT POSITION

Asst.Professor (Sr.), Department of Electronics and Communication,
GMR Institute of Technology (GMRIT),Rajam, Srikakulam District,A.P,532127.

ACADAMIC DETAILS

Ph.D	Area of Research	:	Medical Image Analysis.
	Department	:	Electronics and Communication.
	University	:	Anna University, Guindy, Chennai, Tamilnadu.
	Status	:	Currently working on Thesis.
M.Tech	Specialization	:	Instrumentation and Control
	Department	:	Electronics and Communication Engineering.
	College	:	University College of Engineering.
	University	:	JNTU Kakinada.
	Division	:	First Class with Distinction.
B.E	Branch	:	Electronics and Communication Engineering.
	College	:	SIR C.R.Reddy College of Engineering, Eluru.
	Division	:	First class.

TOTAL EXPERIENCE 16 years 6 months

TEACHING 13 years 9 months (Only in GMRIT,Rajam)

Jan, 2010 to Till Now Asst.Professor (Senior Scale), Dept.of .ECE, GMRIT.

March, 2002 to Dec, 2010 Asst.Professor, Dept.of .ECE, GMRIT.

INDUSTRY 1 year 9 months

Feb,2001 to Feb,2002 Service Engineer, Machine Diagnostics, Hyderabad and deployed to work in National Remote Sensing Agency, Dept. of Space, Hyderabad and Cabinet secretary, Delhi.

Jun, 2000 to Jan, 2001 Trainee Programmer, Indo tech Computers, Hyderabad.

PUBLICATIONS

36

INTERNATIONAL JOURNALS	15
INTERNATIONAL CONFERENCES	14
NATIONAL CONFERENCES	07

ACHIEVEMENTS & AWARDS

2012-2015	Received PhD Quality improvement Programme (QIP) fellowship from A.I.C.T.E, India for three years from 2012 to 2015.
2015	Received certificate in online learning course conducted by Coursera in which Earned 93.7% in Machine Learning.
2014	Received certificate in online learning course conducted by Coursera in which Earned 96.7% in Fundamentals of Digital Image and Video Processing.
2011	Received one Increment for published a two papers titled "Free Inter-Band Aliasing Sub-Band Adaptive Filtering with Critical Sampling Filter Bank Analysis and "Blurred Free Wavelet Based Image Fusion Analysis".
2010	Ratified as an Asst. Professor in the Dept. of. ECE, GMRIT, Rajam, by JNTU Kakinada in the year of 2010.
2009	Received Appreciation Award for the successful completion of the academic work with commendable classroom performance and University results in GMRIT received from Principal, GMRIT, Rajam.

RESEARCH ACTIVITIES

2002- Till now	Participated 29 Faculty Development Programs in the count of 100 Days.
2010-Till now	Published 36 Papers in Conferences and International Journals. * 82 Citations, hindex-5 and i10 index-2 for My Publications.
2012	Member of IEEE.
2011	Member of International Association of computer science and information technology (IACSIT).
2003	Life Member of Indian Society of Technical Education (ISTE).

SUPPORTING AUTHOR TOWARDS BOOKS

2015	Phillips C, Parr J, Riskin E. Signals, systems, and transforms.
2014	Haykin S, Prabhakar T. Adaptive filter theory. Harlow: Pearson Education International; 2014.

ACTIVITIES IN GMRIT

2002-2012	Analog/Digital Communication Lab In charge.
2005-2012	Department Library Coordinator.
2009-2012	Student activity Center (SAC) -Technical Hobby Club Coordinator.
2010-2012	Internal ISO Auditor.
2010 &2012	Prepared Analog and Digital Communication Lab Manuals.
2010	A Two day National workshop on “FPGA Based DSP Implementation Using XILINX” Organized by Department of ECE & EEE, GMR Institute of technology, Rajam. 26 th -27 th November 2010.
2010	A Two day National workshop on “Advanced Signal Processing Applications in Electronics and Telecommunications” (WASET-2010) Sponsored by Department of Science and Technology, New Delhi. Organized by Department of ECE, GMR Institute of technology, Rajam 19 th – 20 th February, 2010.
2010-11	Member of admission Committee.
2010-12	Anti-ragging Committee member.
2009-2012	Prepared Three LAN Based Courses <ul style="list-style-type: none">• Cellular and Mobile Communication,• Analog Communication.• Digital Image Processing.
2008-2010	Discipline committee member for STEPCONE-08 to STEPCONE-10.
2007-2009	3 Articles published in GMRIT-TECH MAG. Titles are “Evaluation of Mobile Networks”, “Pico processor” and “Indian Satellites”.
2008	Industrial Tour Coordinator for 2006 batch students.

2008	Organized as a Committee member ISTE Sponsored Two Day National Workshop on“Microprocessors &Microcontrollers” Organized by the Departments of ECE & EEE at GMRIT, Rajam, and 18th to 19th February, 2008.
2007	Program Organizing Committee member for STEPCONE-07.
2002-2005	Time Table Coordinator in ECE Dept.
2004	Departmental Exams Coordinator.
2002	Industrial Tour Coordinator for 2000 batch students.

SUBJECTS TAUGHT

- Basic Electronics.
- Digital Electronics.
- Electromagnetic waves and Transmission Lines.
- Antennas and Wave Propagation.
- Analog and Digital Communication.
- Wireless Communication
- Cellular and Mobile Communication.
- Satellite Communication.
- Signals and Systems.
- Digital signal Processing.
- Digital Image Processing.

LIST OF PUBLICATIONS – 38 [Published : 36 Under Review: 2]

INTERNATIONAL JOURNALS

Science citation indexed (SCI)

1. Telagarapu Prabhakar and S. Poonguzhali. " Denoising and automatic detection of breast tumor in ultrasound images" Computer Methods and Programs in Biomedicine Journal – Elsevier [Under Review].
2. Telagarapu Prabhakar and S. Poonguzhali. " Filtering based Feature Extraction to Classify the Benign and Malignant Lesions from Breast Ultrasound Images" Journal of Medical Systems-springer [Under Review].

Scopus Indexed

3. Prabhakar, Telagarapu, and S. Poonguzhali. "Feature Based Active Contour Method for Automatic Detection of Breast Lesions Using Ultrasound Images." In *Applied Mechanics and Materials*, vol. 573, pp. 471-476. 2014. Trans Tech Publications, Switzerland.
4. Telagarapu, Prabhakar, and S. Poonguzhali. "Analysis of Contourlet Texture Feature Extraction to Classify the Benign and Malignant Tumors from Breast Ultrasound Images." *International Journal of Engineering and Technology* 6, no.1 (2014): 293-305.
5. Biswal, B. Mishra, S.Biswal, P.K. Prabhakar, Telagarapu "Detection and Power Quality Disturbance Classification Based on Wavelet Packet Decomposition and Modified Immune Optimization Algorithm" *International Journal of Knowledge-Based and Intelligent Engineering Systems* 16, no. 4: PP 261-277, 2012.
6. Prabhakar Telagarapu, L. Govinda Rao, D. Srinivasa Rao and P. Devi Pradeep "Analysis of Mobile User Identification Inside the Buildings" *International Journal on Communications Antenna and Propagation (IRECAP)*, Italy, (Vol. 1 N. 2). Pages 196-203, April 2011.

Google Scholar Indexed

7. Prasad, P. M. K., Prabhakar Telagarapu, and G. Uma Madhuri. "Image Compression Using Orthogonal Wavelets Viewed from Peak Signal to Noise Ratio and Computation Time." *International Journal of Computer Applications* ISSN 0975 – 8887, 47, no. 4 (2012).
8. Telagarapu, Prabhakar, B. Jagdishwar Rao, J. Venkata Suman, and K. Chiranjeevi. "A Novel Traffic Tracking System Based on Division of Video into Frames and Processing." *Special Issue of International Journal of Computer Science & Informatics (IJCSI)*, ISSN (PRINT): Vol. - II, Issue-1, 2. Pages 2231–5292, Feb, 2012.
9. Telagarapu, Prabhakar, Gulivindala Suresh, J. Venkata Suman, and N. V. Lalitha. "A Comprehensive Methodological Analysis of Eigen Face Recognition and Reconstruction" *International Journal of Computer Theory and Engineering (IJCTE)*, Singapore, vol. 4, no. 1, pp. 81-84, 2012.
10. Telagarapu, Prabhakar, V. Jagan Naveen, A. Lakshmi Prasanthi, and G. Vijaya Santhi. "Image Compression Using DCT and Wavelet Transformations" *International Journal of Signal Processing, Image Processing and Pattern Recognition (IJSIP)* Korea ISSN: 2005-4254, Vol.4, No.3, Pages.61-74, and Sep, 2011.
11. Telagarapu, Prabhakar, A. Lakshmi Prasanthi, G. Vijaya Santhi, and B. Ravi Kiran. "Design and Analysis of Parabolic Reflector with High Gain Pencil Beam and Low Side Lobes by Varying Feed Pencil Beam and Low Side Lobes by Varying Feed" *International Journal of Advanced Networking and Applications (IJANA)*, Volume: 03, Issue: 02, Pages: 1105-1115 Oct,2011.

12. Prabhakar, Telagarapu, G. B. S. R. Naidu, and K. Chiranjeevi. "Analysis of Coding Techniques in Wimax" International Journal of Computer Applications, ISSN 0975 – 8887 22, no. 3 (2011): 19-26. (Impact Factor 0.791)
13. Chiranjeevi, K., and Prabhakar Telagarapu. "Automatic Detection of Glaucoma Disease in Eye." International Journal of Advanced Engineering Sciences and Technologies (IJAEST) (2230-7818) Vol. 6 No. 1, Pages 077-080, May 2011.
14. Chiranjeevi, K., UV Ratna Kumari, and Prabhakar Telagarapu. "An Efficient Super Resolution Technique for Loss Less Compressed Bayer Colour Filter Array Images." International Journal on Computer Science and Engineering 3, no. 5 (2011): 1804-1814.
15. Prabhakar, Telagarapu, V. Jagan Naveen, A. Lakshmi Prasanthi, and G. Vijaya Santhi. "Blurred Free Wavelet Based Image Fusion Analysis." CiiT International Journal of Digital Image Processing (CIIT), Vol 3, No 1, Pages 23-27, January 2011.
16. Prabhakar, Telagarapu, Dr K. Satya Prasad, and P. M. K. Prasad. "Free Inter-Band Aliasing Sub-Band Adaptive Filtering with Critical Sampling Filter Bank Analysis." International Journal of Computer Applications, ISSN: 0975 – 8887, 12, no. 11 (2011): 6-10.
17. V. JaganNaveen, T. Prabakar , J. Venkata Suman, and P. Devi Pradeep. "Noise Suppression in Speech Signals using Adaptive Algorithms." International Journal of Signal Processing, Image Processing and Pattern Recognition 3, no. 3 (2010): 87-96.

INTERNATIONAL CONFERENCES 14

IEEE Digital Explore Library & Scopus indexed

1. Lalitha, N. V., Gulivindala Suresh, and Prabhakar Telagarapu. "Audio Authentication Using Arnold and Discrete Cosine Transform." In Computing, Electronics and Electrical Technologies (ICCEET), Nagercoil, Tamilnadu, pp. 530-532, 21st - 22nd, March 2012.
2. Telagarapu, Prabhakar, Birendra Biswal, and P. M. K. Prasad. "Fast Convergence and Error Free SAF in Multimedia Applications." In Computing, Communication and Applications (ICCCA), PSNA College of Engineering and Technology, Dindigul, Tamil nadu, pp. 1-5, 22 - 24 February, 2012.
3. Telagarapu, Prabhakar, MV Nageswara Rao, and Gulivindala Suresh. "A Novel Traffic-Tracking System using Morphological and Blob Analysis." In Computing, Communication and Applications (ICCCA), P.S.N.A. College of Engineering and Technology, Dindigul, Tamil nadu ,pp. 1-4, 22 - 24 February, 2012.
4. Telagarapu, Prabhakar, Birendra Biswal, and Vijaya Santhi Guntuku. "Design and Analysis of Multimedia Communication System." In Advanced Computing (ICoAC), Anna University, ITCampus Chromepet, Chennai, Tamilnadu, pp. 193-197, 4-16 December, 2011.

5. Telagarapu, Prabhakar, B.Biswal, and Vijaya Santhi Guntuku. "Security of Image in Multimedia Applications." In Energy, Automation, and Signal (ICEAS), Bhubaneswar,Orissa,India , pp. 1-5. 28th-30th Dec, 2011.
6. Telagarapu, Prabhakar. "Closed Planar Shape Classification using Nonlinear Alignment." In Recent Advances in Intelligent Computational Systems (RAICS), Trivandaram, Kerala pp. 537-540, Sep 22-24, 2011.

Published in Conference proceedings

7. Renuga V, Telagarapu Prabhakar and S.Poonguzhali "Morphological and Fractal Feature Extraction to classify the tumor by using breast ultrasound images" International Conference on Technological Convergence for Information,Health,Food and Energy Security, Organized by the Department of Documentation and Information Science,Central Leather Research Institute(CLRI),Chennai under Council of Scientific and Industrial Research(CSIR), 1st May to 2nd May 2015..
8. Prabhakar, Telagarapu, and S. Poonguzhali. "Feature Based Active Contour Method for Automatic Detection of Breast Lesions Using Ultrasound Images." International Conference on Advancements in Automation and Control (ICAAC-2014) Organized by Department of Electrical Engineering, Syed Ammal Engineering College, Ramanathapuram, Tamilnadu, India. April 11 &12, 2014.
9. Kathiravan M, Prabhakar Telagarapu and Poonguzhali S "Optimal Feature Selection and Classification of Breast Lesion using Ultrasound Images" International Conference on Emerging Trends in Science, Engineering and Technology (ICETSET-2014) Jerusalem College of Engineering, Chennai, 18th & 19th , April 2014.
10. B.Balasuganya, Telagarapu Prabhakar and S.Poonguzhali "An Evaluation of Different Feature Extraction Methods for Classification of Tumor in Breast Ultrasound Images" International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC-2013), Chennai, 17th & 18th , April 2013.
11. Telagarapu, Prabhakar, Birendra Biswal, and J. Venkata Suman. "Channel Encoding And Decoding in Wimax."International Conference on data Engineering and Communication system(ICDCS-2011),RNS Institute of Technology, Bangalore, Karnataka, India, Pages 412-416, Dec 30-31,2011.
12. B.Jagdishwar Rao, T. Prabhakar "Underwater Acoustic Wireless Communication Channel Model and Bandwidth" 2nd International Conference on Emerging Trends in Engineerig and Technology (IETET-2011)" held in the Geeta Institute of Management and Technology (GIMT), Kanipal, Kurukshetra-136131. Oct 20-22,2011.
13. Yasasvy Nanyam, Sriram Pandiripalli , Prabhakar Telagarapu, Dr.Srinivas Kota "Land Use and Land Cover Classification using Remotely Sensed Image" International Conference on Machine Intelligence Application to Power, Signal Processing, Communication and Control(MIPSCCON) at GMR Institute of Technology,Rajam,Srikakulam District, Andhra Pradesh India, Pages 14-17, 7th -9th April ,2011.

14. G.Vijaya Santhi, Prabhakar Telagarapu "Dynamic Compression Technique for Multimedia Applications" International Conference on Machine Intelligence Application to Power, Signal Processing, Communication and Control(MIPSCCON) at GMR Institute of Technology,Rajam,Srikakulam District, Andhra Pradesh, India, Pages 40-43, 7th -9th April ,2011.

NATIONAL CONFERENCES

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1. Prbhakar Telagarapu, B.Jagdishwar Rao, J.Venkata Suman, K.Chiranjeevi "A Novel Traffic Tracking System Based on Division of Video Into Frames And Processing" National Conference on Research Trends in Computer Science and Technology(NCRTCT 2012) CMR College of Engineering and Technology , Hyderabad, A.P, India. Pages 265-268, 27th & 28th Jan' 2012.
2. J,Venkata Suman,Prabhakar Telagarapu,G.Suresh and N.V.Lalitha "Finger Print Recognition using Minutiae Extraction for Bank Locker Security" National conference on Advances in Communication & Electrical Engineering ,Regency Institute of Technology YANAM, U.T of Pondicherry, India, Pages 393-397,11th Nov,2011.
3. B.jagdishwar Rao,T.Prabhakar "Capacity of Underwater Wireless Communication Channel" AICTE sponsored Three day National Conference on Signal Processing And Embedded Systems Applications (COSMOS 2011),CMR College of Engineering & Technology, Hyderabad. Pages 614-620, 8th to 10th July, 2011.
4. A.Lakshmi.Prasanthi , Prabhakar Telagarapu, B.Ravi Kiran and G.Vijaya Santhi "Analysis of Parabolic Reflector for its Effective Design" National conference on Recent Advances in Communications and Energy Systems (RACES – 2011), Vignan's Lara Institute of Technology and Science Guntur, Pages 79-83, 29 – 30 April, 2011.
5. T.Prabhakar, A.Lakshmi.Prasanthi, G.Vijaya Santhi and S. S. Durga kameswari "Wavelet Based Multi Sensor Image Fusion" National Conference on Advances in Communication Technologies(NCACT-2010),GITAM Institute of Technology, GITAM University,Visakhapatnam-530045(A.P), India, 3-4 December, 2010.
6. T.Prabhakar, A.Lakshmi.Prasanthi, G.B.S.R.Naidu, T.Geetamma, "Analysis and Design of Versatile Antennas" National Conference on recent Advances in DSP, Embedded systems, VLSI, Image Processing, Communication & Electronics Engineering(DEVICE-2010), In Association with IEEE Hyderabad Section, Sponsored by AICTE, New Delhi, at Anil neerukonda Institute of Technology and Sciences (ANITS),Visakhapatnam, AP, India, Pages.172-177 Nov 13-14,2010.
7. T.Prabhakar, J.Venkata.Suman, V.Jagan.Naveen, P.Devi Pradeep, "Noise Suppression in Speech Signal using Adaptive Algorithms" National Conference on Signal Processing & Communication Systems (NCSPCS) 2010, at R.V.R.J.C. College of Engineering, Guntur Dist (A.P), India, Pages.76-79, Feb 25-26, 2010.

FACULTY DEVELOPMENT PROGRAMS

1. "Author Workshop Jointly organized by Springer & Anna University, Chennai" on 17th March.2015 at Anna University, Chennai.
2. UGC Sponsored Seminar on "WBAN-Sensing and Signal Processing Challenges" held during 23-24, March 2015 organized by Department of Electronics and Communication Engineering,College of Engineering,Guindy,Anna University,Chennai,600025.
3. Workshop on "Video Analytics" held during 10th & 11th October, 2014 organized by AU-KBC Research Centre in association with Department of Electronics Engineering & Department of Information Technology at Madras Institute of Technology Campus of Anna University, Chennai-44.
4. "Author Workshop on Book/Journal Publishing" Conducted by Elsevier research solutions in association with University Library, Anna University at CEG Campus on 24th Sep.2014.
5. Workshop on "Image Processing Using SCILAB" at IEEE Communications Society, IEEE Madras Section, Chennai on September 13, 2014.
6. Two Day UGC funded workshop on "Advances In Image Processing and Its Applications" Organized and conducted by The Department of Information science and technology. Anna University, Chennai-600025, from 24th to 25th January 2014.
7. "IEEE Xplore Digital Library User Awareness Workshop" 18th November, 2013.Organized by University Library, CEG Campus, Anna University, Guindy, Chennai-600025.
8. Three day hands on workshop on "Neural Networks, Fuzzy Logic and Pattern Recognition" For Engineering and Healthcare Applications 27-29 September-2013 Organized by IEEE EMBS Bangalore Chapter, Department of Medical Electronics, M.S.RAMIAH INSTITUTE OF TECHNOLOGY, MSRIT Post, MSR Nagar, Bangalore – 560064, INDIA.
9. Two day workshop on "End-To End Exploration of Matlab for Image Analysis" conducted by Dept.of.Computer Science & Engineering at College of Engineering, Anna University during 12th -13th April 2013.
10. UGC Sponsored Two days "Research Methodology Techniques of Writing Research Articles" 27-28, February, 2013 Organized by Department of Physics, Anna University, Chennai-25.
11. Research Scholar Event Organized as a part of the ACM India Annual Event 2013, January 23, 2013, IIT Madras.
12. "International Conference on Bio Medical Systems, Signals And Images" -BSSI 2012 Indian Institute of Technology Madras (IITM), Chennai. November 28th to 1st Dec 2012.

13. One day National workshop on "Support Vector Machines: Foundations, Research Directions & Tools" held on 15th December 2012, organized by the Dept of Computer science Engineering, Sri venkateswara college of engineering, Pennalur, Sriperumbudur, Chennai, 602105.
14. Special lecture on "How to Do a Good Ph.D Thesis" December 03-05, 2012. Organized by Centre for International Affairs, Anna University, Chennai, India.
15. AICTE Sponsored Quality Improvement Program(QIP) Short term course on " Medical Signals and Image Processing" at Indian Institute of Technology (IIT), Roorkee (Uttarakhand), 13.06.2011 to 17.06.2011.(5 Days)
16. Two day National workshop on "Advances in Signal and Image processing" organized by the Department of Electronics and Communication Engineering at JNT University Kakinada campus is during 25th-26th, February, 2011.
17. AICTE Sponsored Staff Development Program On "Evolving Challenges In Energy And Environment" organized by the Departments of Chemical Engineering, GMRIT, Rajam, 19-Apr-2010 to 1-May-2010.(Two weeks)
18. Two Day National Workshop on "Advanced Signal Processing Applications In Electronics And Telecommunications " Sponsored by Department of Science and Technology (DST) and organized by the Departments of ECE ,GMRIT,Rajam. 19th to 20th February, 2010.
19. One Day workshop on "Research Methodologies" at JNTU, Kakinada. Organized by Dept.of.ECE, University College of Engineering, JNTU, Kakinada. 24 Nov 2009.
20. "Internal Auditing on Iso 9001: 2008" at GMRIT, Rajam by Real time Quality Management services, Visakhapatnam, 21- 22, August 2009.
21. Two Day workshop on "Robotronix" during at GMRIT, Rajam, 1 -2 Aug 2009.
22. Mission 10x "High Impact Teaching Skills", Attested by DALE CARNEGIE & ASSOCIATES, Inc. Trainer and WIPRO at GMRIT, Rajam, 8-12-2008 to 12-12-2008.(5 Days)
23. AICTE, Sponsored Short term training Program(STTP) On "Advances Digital Signal Processing" jointly organized by the Department of ECE and EEE at GMRIT, Rajam, 26.03.2007 to 30.03.2007.(5 days)
24. A Two-Day National Work Shop on "DSP TOOLS" at Aditya Engineering College, Kakinada, 14.02.2007 to 15.02.2007.
25. A Two- Day National workshop on "Recent Trends In Nano Electronics" jointly organized by the Department of Electronics & Communication Engineering and Electrical & Electronics Engineering at GMRIT , Rajam. 08.09.2006 to 09.09.2006.
26. UGC Sponsored 21 days Refresher Course on "Advanced Communications" from at UGC-Academic Staff College, JNTU Hyderabad, 06-11-2006 to 25-11-2006.(Three Weeks).

27. ISTE Sponsored a Two-Day workshop on “English for Specific Purposes (ESP) Program for Technical Teachers” organized by the Department of English, at GMRIT, Rajam, 13.03.2006 to 14.03.2006.
28. “National Conference on Biomedical Engineering (NCBME-2004)” Gandhi Institute of Technology and Management (GITAM), Visakhapatnam. 23.12.2004 to 24.12.2004.
29. Quality Improvement Program on “Methods Of Improving Teaching Techniques” at GMRIT, Rajam (A.P). Conducted by Technical Teachers Training Institute (TTTI), Chennai, Govt.of.India, Ministry of Human Resource Development, 24.11.2003 to 29.11.2003.(6 Days).