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Dr.A.Banumathi

au_banu@tce.edu

Educational Qualification

DEGREE	BRANCH	INSTITUTE	YEAR
B.E.	Electronics & communication Engg.	Thiagarajar College of Engg.,,Madurai-15	1984
M.E.	Communication system	Thiagarajar College of Engg.,,Madurai-15	1997
Ph.D	Medical Image Processing	Madurai Kamaraj University, Madurai-15	2009

Experience

PERIOD	NO OF YEARS	DESIGNATION	INSTITUTION
23-01-1985 to 31-12-1992	8	Associate Lecturer	A.N.J.A.W polytechnic, Sivakasi
18-08-1997 to 24-11-2001	4 years 3 months	Senior Lecturer	Raja college of Engg, Madurai-20
01-11-2001 to 01-11-2006	5	Lecturer	Thiagarajar college of Engg, Madurai-15
01-11-2006 to 03-11-2009	3	Senior Lecturer	Thiagarajar college of Engg, Madurai-15
01-11-2009 to 01-04-0013	3	Assistant Professor	Thiagarajar college of Engg, Madurai-15
02-04-2013 to Till date	3 Years	Associate Professor	Thiagarajar College of Engineering

Publications

Journals

1. A Banumathi,G Jaffino, Ulaganathan Gurunathan, J Prabin Jose," Comparison of missing tooth and dental work detection using dental radiographs in human identification",International Journal of Biomedical Engineering and Technology,Volume32, Issue 3, pages 217-228,2020

2. Dr. A.Banumathi,G.Jaffino,"Detection of Missing Tooth from Dental Radiographic and Photographic Images in Forensic Odontology" International Journal of BioMedical Engineering and Technology, Inderscience Publishers (IEL), Vol.30 Issue. 1,pp 75-93,(2019)
3. M Sivabalasundari, A Banumathi, G Ulaganathan, TS Venkatarajan, "Identifying LCF-DLT approach and educating engineering students to learn foreground perception in video surveillance", The International Journal of Electrical Engineering & Education, Pages 0020720919834668, SAGE Publications, 2019
4. A. Banumathi , G. Ulaganathan, K.A. Shahul Hameed,"A simple method of immunostained tissue scoring based on maximal separation techniques",Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization, vol 6, Issue 4, pages 473 - 479, Taylor & Francis, 2018
5. A Banumathi,G Ulaganathan, K Thanvir Mohamed Niazi, Soundarya Srinivasan, VR Balaji, D Manikandan, KA Shahul Hameed, "A clinicopathological study of various oral cancer diagnostic techniques",Journal of pharmacy & bioallied sciences,Wolters Kluwer--Medknow Publications,Volume 9, Suppl 1,Pages S4,2017
6. Dr. A.Banumathi,G.Jaffino,"Contourlet Transform based Efficient Shape Extraction Technique for Forensic Odontology" Biomedical Research, Vol.28 No. 2(2017) pp 608-615
7. Dr. A.Banumathi,G.Jaffino,"A New Mathematical Modelling based Shape Extraction Technique for Forensic Odontology" Journal of Forensic And Legal Medicine, Elsevier, Vol.47 No. 1(2017) pp 39-45
8. A. Banumathi , G. Ulaganathan, K.A. Shahul Hameed,"P53immunostained cell nuclei segmentation in tissue images of oral squamous cell carcinoma", Signal , Image and Video Processing, Springer London, Vol.11 No. 2 (2017) pp 363-370.
9. A Banumathi, KA Hameed, G Ulaganathan, "Cell Nuclei Classification and Immunohistochemical Scoring of Oral Cancer Tissue Images: Machine-learning Approach",Asian Journal of Research in Social Sciences and Humanities,Asian Research Consortium,Volume 6, Issue 10,Pages 732-747,2016.
10. A Banumathi, R Karthika Devi, "An efficient fast marching algorithm for dental cyst segmentation in digital radiographs",Advances in Natural and Applied Sciences,American-Eurasian Network for Scientific Information, Volume 10, Issue 10 SE, Pages 120-128, 2016
11. Dr. A.Banumathi,G.Jaffino,"A Region Based Active Contour Shape Extraction Technique for Dental Images in Human Forensic Identification" Australian Journal of Basic and Applied Sciences, Vol.16 No. 9(2015) pp 345-350
12. A.Banumathi,B.Vijayakumari,M.Anees Fathima"Human Identification System with Dental Photographs using Contourlet Transform"International Journal of Applied Engineering Research,Vol.10 No.1(2015)Pp 288-294ISSN 0973-4562IF :0.135
13. A.Banumathi, " Design and Analysis of an Automated Dental Identification system with Radiographs and photographs",Journal of Signal Image and Video processing, 2014.
14. A.Banumathi A variant approach for human forensic identification using dental radiographs with skeleton and contour, International Journal of Signal and Imaging Systems Engineering, Vol. 8, Nos 1/2,2014
15. A.Banumathi Victim Identification with dental images using texture and morphological operations,Journals of Electronic Imaging,Vol 23(1)pp.13004-1-13004-13 Jan 2014 ISSN online 1017-9909 ISSN print 1560-229X IF: 1.061
16. A.Banumathi Dental Radiographs and Photographs in Human Forensic Identification , International journal of IET-Biometrics,Vol-2, Issu-2,June 2013, pp 56-63
17. A.Banumathi Diagnosis of Dental deformities in Cephalometry images Using Support Vector Machine,International journal of J Med Syst,Springer Science Business Media, LLC 2009,11th August 2009 ,DOI 10.1007/s10916-009-9347-9
18. A.Banumathi Missing tooth Identification and teeth numbering in Dental Xray and Photo graphic imaging,Journal of Biomedical Engineering and technology,Vol 13, Issue 2,pp. 185-200, ISSN online 1752-6426 ISSN print 1752-6418,2013.

19. A.Banumathi,"An effective dental shape extraction algorithm using contour information and matching by mahalanobis distance",International Journal of Computer Science and TechnologyVol.2,Issue.4 Oct Dec 2011
20. A.Banumathi, "An Effective Shape Extraction Algorithm for Dental Radiograph using Contour Information",International Journal of Computer Science and Technology,Volume 2, Issue 4, 2011.
21. S.Raju,V.Abhaikumar,A.BanumathiAutomated Diagnosis And Severity Measurement Of Cysts In Dental X-RAY Images Using RBF Neural Networks, "Biosensors: Data Acquisition, Processing and Control",Vol.14,Issue.2.pp.105-110(2009) June 2009
22. A. Banumathi, A. Kannammal, R. Artheer, S. Raju, V. Abhaikumar, "Automated Diagnosis and Severity Measurement of Cysts in Dental X-ray Images Using Neural Network",International Journal of Biomedical Soft Computing and Human Sciences: the official journal of the Biomedical Fuzzy Systems Association,Volume 11, Issue 1, pp.15-19, 2006.
23. A.Banumathi, S.Raju, V.Abhaikumar, Performance Analysis of various Progressive image transmission coding techniques on medical images, Caledonian Journal of Engineering, Volume 1,No.5-Jan-June-2005
24. A.Banumathi Performance Analysis of Various Techniques Applied in HumanIdentification Using Dental X-Rays , International journal of J Med Syst,Springer Science Business Media, LLC 2007,Volume 31,No.3/210-218/june2007
25. R Karthika Devi, A Banumathi, G Ulaganathan, "An automated and hybrid method for cyst segmentation in dental X-ray images", Cluster Computing, Pages 1 -13, Springer US, 2019
26. A. Banumathi , G. Ulaganathan, K.A. Shahul Hameed , "Performance evaluation of maximal separation techniques in immunohistochemical scoringof tissue images", Journal of micron,Elsevier,Vol 79,pp.29-35,2015.
27. A.BanumathiChange Detection of Cysts From Dental X-ray images using principal component AnalysisInternational Journal of Biomedical Engineering and Consumer Health Informatics Volume I /29-33/Jan-June 2008
28. A.Banumathi,G.Jaffino, "A Region Based Active Contour Shape Extraction Technique for Dental Images in Human Forensic Identification", Australian Journal of Basic and Applied Sciences,Vol 9,No.16,pp. 345-350,2015

29. A.BanumathiAn Effectiv e Dental Shape Extraction Algorithm Using Contour Information and Matching by Mahalanobis DistanceJournal of Digital Imaging, Springer Publications,Vol 26, Issue-2, 2013,pp-259-268

Conferences

1. Dr.A.Banumathi,M.Iswariya,G.Kannathal,P.Uma Maheswari,"A Block Based scheme for Enhancing Low Illuminated Panoramic X-Ray Images",National Conference On Emerging Trends in Intelligence Computing, NCETIC'20, Anand Institute of Higher Technology,Kazhipattur,10th June 2020.
2. Dr. A. Banumathi,S. Anupriyadharsini, R. Sarah Blessie, B. Jeba Sangeetha,"Optimized ARM-based implementation of DAB Time and Frequency Synchronization",IJSRST,Volume 4,Issue 5,Print ISSN: 2395-6011,Online ISSN: 2395-602X,2018.
3. Dr. A.Banumathi,S.Rathi,"Automatic Scoring of Immunohistochemical Cells Using Adaptive LocalThresholding and Separation Technique"TEQIP - III sponsored InternationalConference on Instrumentation and ControlEngineering, ICECON-2019, NIT, Trichy.
4. Dr.A.Banumathi,S.Anupriyadharsini, P.Uma Maheswari,"Diagnosis of dental deformities using Image Processing Techniques",International Conference on Innovations in Engineering and Industrial Applications(ICIEIA '18), KLN College of Engineering, Madurai.

5. Dr. A.Banumathi P.Uma Maheswari, "Wavelet Based Contour Extraction of Dental Images for Human Forensic Identification" ICET March 24 2017
6. Dr. A.Banumathi, G.Jaffino, "Texture Based Person Identification Using Dental Radiographs and Photographs in Forensic Odontology" ICVGIP Dec 18 - 22 2016, IIT Guwahati
7. Dr.A.Banumathi, N.Lavanya, G.S.Roshini mai.W.Lidiyarnary "Human Identification using Dental Images" ICIECS'15, Karpagam College of Engineering, Coimbatore.
8. Dr.A.Banumathi, K.Sri kalpa virucha, K.Sakthi Kaveri " Detection of Emphysema using Gabor Filter and K-Means Clustering Algorithm", IEEE Sponsored 2nd International Conference on Innovations in Information Embedded and Communication Systems ICIECS'15, Karpagam College of Engineering, Coimbatore.
9. Dr.A.Banumathi, A.Farzana Shahar Banu, U.Surya Gurumoorthy, Dr.G.Ulaganathan "An Alternate Approach to Subtraction Radiography for the Diagnosis of Periodontitis" ICIECS'15, Karpagam College of Engineering, Coimbatore.
10. A. Banumathi Segmentation of Digitized Dental X-Ray Images using Level set method, International Conference on Intelligent Computing Applications, 2014
11. A.Banumathi Information Fusion in Computer Aided Diagnosis for Diabetic Retinopathy, NCCC-2010, 27 March 2010
12. Dr. A.Banumathi, G.Jaffino, "Dental Work Extraction for Different Radiographic Images in Human Forensic Identification" ICCNT Dec 18 - 19 2014
13. A. Banumathi Segmentation of Digitized Dental X-Ray Images using Level set method, International Conference on Intelligent Computing Applications, 2014, Coimbatore.
14. A.Banumathi, " Age estimation using teeth image", P.S.Y college of engineering sivagangai. 2014.
15. TEQIP Sponsored National Conference on "Wireless Communication Systems" on 18-04-2014 to 19-04-2014
16. A.Banumathi Automatic Segmentation of Pulmonary Lobe using Marker Based Watershed Algorithm, International Conference on Innovations in Engineering and Technology (ICIET'14) (IEEE conference), KLNCE, Madurai, March 21-22 2014
17. Dr.A.Banumathi, "An effective numbering and classification system for dental panoramic radiographs", 2013 Fourth International Conference on Computing, Communications and Networking Technologies (ICCCNT)
18. A Banumathi, AJ Selvabala, M Muneeswari, JJ Amutha, G Ravindran, "A novel approach for steganalysis using pixel value adjustment", 2013 International Conference on Communication and Signal Processing, Pages 524-528, 2013.
19. A.Banumathi Background Detection and Contrast Enhancement of Images with Poor Lighting, INCOS'13, Kalasalingam University, Krishnankoil, April 11, 2013
20. Dr.A.Banumathi, "Dental cyst diagnosis using texture analysis", 2012 International Conference on Machine Vision and Image Processing (MVIP)
21. A.Banumathi Human Forensic Identification using Dental Radiographs and Photographs, ERC, ICVGIP 2013, Dec(16-19) 2012
22. G Ulaganathan, A Banumathi, JJ Amutha, AJ Selvabala, "Dental Cyst Delineation Using Live Wire Algorithm", IEEE conference Pages 129 - 132, 2012
23. K.A. Shahul Hameed, A. Banumathi, G. Ulaganathan, "Segmentation of immunohistochemical staining of β -catenin expression of oral cancer using Gabor filter technique", IEEE conference, Pages 429-434, 2012
24. A.Banumathi Performance analysis of various image transmission coding techniques on Medical images, NCIP-05, Bangalore., Medical Image compression, Oct 14-17, 2005
25. A.Banumathi Person identification by matching Dental X- ray images, ICCR'05, Mandya, Forensic application, December 22-23, 2005
26. A. Banumathi Human Forensic Identification with Dental Radiographs using Similarity and Distance Metrics, Indicon 2012, Dec(7-9) 2012
27. A.Banumathi Dental Cyst Diagnosis using Texture Analysis, MVIP 2012, PSG Tech, Coimbatore, Dec 14-15, 2012

28. A.Banumathi,G.Jaffino,"Dental Work Extraction for different Radiographic Images in Human Forensic Identification,"ICCNT,2014
29. A.Banumathi Performance analysis of matched filter techniques for automated detection of blood vessels in refined images,IEEE conference, IISC, Bangalore,Image Processing Oct 14-17, 2003
30. A.Banumathi Automated diagnosis of cysts in Dental X-ray Images using Neural Network,ICAJET-04, ,Malaysia,Dental Image segmentation ,August 3-5,2004
31. A.Banumathi Texture Based Classification of Dental Cysts,ICCICCT2014,Noorul Islam University,Kumaracoil,July 10-11, 2014
32. A.Banumathi Automated diagnosis of cysts in X-ray Dental Images,ICSC, Chennai.,Medical Image segmentation August 3-5,2004
33. A.Banumathi Tooth contour Extraction in X-ray images using pixel classification method,2nd National conference on Emerging trends in communication, Dhanalakshmi sreenivasan Engg college , perambalur,May 2008
34. A.Banumathi Segmentation in X-ray Dental images, NATCON-04, Kumaracoil.,Medical Image segmentation April-7-8, 2004
35. A.Banumathi Automated Diagnosis of Periodontal Diseases using Image Processing Techniques,ICECE-2012,Sri Lakshmi Ammal Engineering College,Chennai.,Medical Image processing, April 2012
36. A.Banumathi Contrast Enhancement of poor illuminated Gray and Color Images using Image Processing Techniques.,ICSIE'2012, Lord Venkateshwara College of Engg, Kancheepuram, 31st March 2012
37. A.Banumathi Segmentation of tooth layer using circular gabor filter,National Conference,Medical Image Diagnosis, 27March 2009
38. A.Banumathi Information Fusion in Computer Aided Diagnosis for Diabetic retinopathy,NCCC-2010, Dr,Magalingam college of Engineering , pollachi.,27 March 2010
39. A.Banumathi Accuracy Measurement of Lung Nodule Detection in X-ray Images using Neural Network,NCIP-05, Bangalore.,Medical Image AnalysisDecember 22-23,2005
40. A.Banumathi Background Approximation and Contrast Enhancement of Poor Lighting Images, NITAC-2010, Bannariamman Institute of Technology, Sathiyamangalam, 19-20 March 2010
41. A.Banumathi Contrast Enhancement of Poor Lighting Images and its Application in Image Processing,NCRCS 2010, Kalasalingam University, Krishanankoil.,11-12 March 2010
42. A.Banumathi Information fusion in CAD for diabetic retinopathy using digital color fundus photograph,ICBFBE 2010, PRIST university, Thanjavur.,25 Feb 2010.
43. A.Banumathi Landmark Identification for Cephalometry Analysis using SVM, NCSSS'06 Sathyamangalam.,Dental Image Analysis February24-25,2006
44. A.Banumathi Lossy image compression using Burrows Wheeler Transform,NACCA-2006, Kovilpatti,Medical Image compression February24,2006
45. A.Banumathi Lung Disease Detection using Gabor filtering Techniques,NACCA-2006, Kovilpatti,Medical Image Diagnosis, February24,2006
46. A.Banumathi An Efficient and Simple Algorithm for Dental Radiograph Segmentation,ICICIC-2011P.S.G College of Technology, Coimbatore,Jan 6th-7th 2012

47. A.Banumathi Fuzzy based lung nodule analysis,NCIICT, Coimbatore,Image Processing, 2003

Industry Interactions

COMPANY NAME	NATURE OF WORK	PERIOD	DETAILS
SIEMENS Bangalore	Faculty internship programme	27-01-2015 to 29-01-2015	Internship

Sponsored Research

TITLE	SPONSORING AGENCY	AMOUNT	RESPONSIBILITY
Victims Identification in Forensic Odontology using Dental Images	UGC	8,21,800	Principal Investigator

Seminar, Conference, Workshop Attended

1. AICTE- QIP sponsored workshop on MEMS,Thiagarajar College of Engineering,, 18-02-2019 to 24-02-2019
2. TEQIP Sponsored One Day Workshop on Myths and Realities of R&D and IPR at EEIs: Issues, Challenges and Opportunities organized by TCE, Madurai, 13-07-2018 to 13-07-2018
3. 22nd International Symposium on VLSI Design and Test (VDAT - 2018) held at Department of Electronics and Communication Engineering, Thiagarajar College of Engineering, Madurai 28th June - 30th June 2018., 28-06-2018 to 30-06-2018
4. The Ninth International Conference on Advances in Pattern Recognition, ICAPR 2017, organized by ISI, Kolkatta held at ISI Bangalore, December 27-30, 2017., , 27-12-2017 to 30-12-2017
5. TEQIP - III sponsored one day workshop on " Awareness on UG self Assessment Report (SAR) of NBA", organized by Planning and Development Division, Thiagarajar College of Engineering, Madurai - 625 015, on 13th October 2017., 13-10-2017 to 13-10-2017
6. National Conference & Exhibition on e Health, Telemedicine and Health ICT 18th June 2016, 18-06-2016 to 18-06-2016
7. IEEE Indian Antenna Week,Workshop on Advanced Antenna Technology 6th to 10th June 2016, 06-06-2016 to 10-06-2016
8. TEQIP Sponsored Workshop on "Coonvex Optimization and Random Processes for Wireless Communication Systems" March 05-07 2015., 05-03-2015 to 07-03-2015
9. Training on "Imaging and computer vision group",Siemens technology,bangalore, 27-01-2015 to 29-01-2015
10. Fourth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics NCVPRIPG 2013 on 18-21 December 2013 pn Jodhpur., 18-12-2013 to 21-12-2013
11. TEQIP Sponsored workshop on "Outcome Based Education"during October 22-23,2013, 22-10-2013 to 23-10-2013
12. Special Workshop on New Outcome Based Accreditation from 9th to 11th May 2013 held at Thiagarajar College of Engineering, Madurai, 09-05-2013 to 11-05-2013
13. IEEE International conference on Communication control and computing Technologies (ICCCCT 10),Syed Ammal Engineering college,Ramanathapuram., 08-10-2010 to 08-10-2010
14. ICVGIP - 2006, Thiagarajar College of Engineering, December 13 16 ,2006
15. TI development conference, Bangalore, Nov 5&6-2006
16. INAE Workshop on Image and Speech Processing, IIT,Madras, February 27-29,2006
17. National Conference on Image Processing(NCIP-05), M.S.Ramaiah School of Advanced studies, Bangalore., March- 22-25, 2005
18. Performance analysis of various image transmission coding techniques on medical images, M.S.Ramaiah School of Advanced studies, Bangalore, 2005
19. Accuracy measurement of lung nodule detection in X-Ray images using neural network, M.S.Ramaiah School of Advanced studies, Bangalore, 2005
20. Indian Conference on Computer Vision,graphics and Image processing-2004, ISI, Calcutta, Dec, 2004
21. Quality improvement programme, National Institute of Technical Teachers Training& Research,Chennai, November -1-6,2004

22. Engineering field, KLN college of information technology, 29.9. 2004
 23. IEEE Region 10 Conference on Convergent Technologies For The Asia-Pacific.(TENCON-04), IEEE conference, IISC, Bangalore, October-14-17, 2003
 24. Workshop on image processing, Thiagarajar of College Engineering, Madurai, 19,20 sep 2003
 25. Recent trends in wireless technologies, Thiagarajar of College Engineering, April 18, 2003
 26. Wavelet based computer graphics and image processing, Amrita Institute of Technology and science, Coimbatore, Jan' 20-31, 2003
 27. Performance analysis of matched filter techniques for automated detection of blood vessels in refined images, IEEE conference, IISC, Bangalore, 2003
 28. Image processing, School of Computer Science and Engg., Anna University, July 5-7, 2002
 29. Program on Analog, Digital and RF- measurements, TCE and M/S Agilent Technologies, March- 6, 2002
 30. Educators seminar cum training programme on analog,digital and RF measurements, Thiagarajar College of Engineering , Madurai, 2002
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31. Quality improvement programme, Technical Teachers' Training Institute, Madras, June 23-27,1986

Seminar, Conference, Workshop Organised

1. Patent Awareness Program for students on 17th February 2020 at Thiagarajar College of Engineering, Madurai - 625015., 17-02-2020 to 17-02-2020
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2. Certificate Course on Effective Patent Search and Drafting (PAT DRAFT - 2019) on 25th to 29th November 2019 at Thiagarajar College of Engineering, Madurai - 625 015., 25-11-2019 to 29-11-2019
 3. One Day Discussion with Puthran and Associates, Chennai on "How to file patents" on 9th August 2018 at ECE, TCE, 09-08-2018 to 09-08-2018
 4. One Day Workshop on "Myths and Realities of R&D and IPR at EEIs: Issues, Challenges & Opportunities" held on 13th July 2018 at Mechanical Seminar Hall, TCE, 13-07-2018 to 13-07-2018
 5. Two Days Workshop on "How to Identify the patentable ideas from projects works" held on 15 th &16th November 2017 at ECE Seminar Hall, TCE., 15-11-2017 to 16-11-2017
 6. One Day Workshop on "Intellectual Property Rights and Innovations" held on 6th October 2017 at TCE TARQ building , 06-10-2017 to 06-10-2017
 7. TEQIP Sponsored Two Days National Workshop on "Computer Vision and Medical Image Processing:A Practical Approach using MATLAB" , 25-04-2014 to 26-04-2014
 8. DRDO Sponsored Two Days Workshop on Medical Imaging and Image AnalysisThiagarajar of College Engineering International,October 20th - 21st , 20-10-2011 to 21-10-2011
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9. ICVGIP, Thiagarajar of College Engineering, December 13 16

Ph.D Guidance/Supervisorship

NAME OF SCHOLAR	COURSE	AREA OF RESEARCH	STATUS
Mrs.S.Karthika Devi	Ph.D	Automated Diagnosis of Dental Caries	Completed
Mr.K.A. Sahul	Ph.D	Automated Diagnosis of Oral cancer	Completed

NAME OF SCHOLAR	COURSE	AREA OF RESEARCH	STATUS
Hameed			
Mrs.B.Vijayakumari	Ph.D	Human Identification in Forensic Dentistry using Dental X-ray Images	Completed
Mrs.M.Murugeswari	Ph.D	Elimination of Magnification Error in Dental Panoramic X-ray images	Ongoing
Mrs.M.Sivabala Sundari	Ph.D	Automatic Video Surveillance system for tracking multiple objects	Ongoing
Mrs.G.Jaffino	Ph.D	Identification of Victims using various X-ray Imaging Modalities and Photographic Dental Images	Completed
Mrs. P.Uma Maheswari	Ph.D	Delineation of Inferior Alveolar Nerve Canal using Contourlet Based Wavelet Segmentation	Ongoing

Lectures Delivered

TOPIC	DELIVERED AT	PERIOD
Deep Learning Tools and Techniques for the Prognosis Diabetic Retinopathy	PSNA College of Engineering and Technology, Dindugal	19-01-2018 to 19-01-2018
Resource Person	K.L.N College of Information Technology	19-09-2017 to 19-09-2017
Viva Voce	Anna University, Chennai	19-09-2016 to 19-09-2016
Viva	Anna University, Chennai	18-02-2016 to 18-02-2016
Recent Developments and Future Focus of Health Care Field in India	PSNA, Dindugal	06-10-2015 to 06-10-2015
Recent Advances in Dental Imaging	MEPCO, Sivakasi	13-05-2015 to 13-05-2015
Image processing and Pattern Recognition- Research	Thiagarajar College of Engineering, Madurai	20-03-2015 to 21-03-2015
Application of Dental Imaging with core technical problems	Siemens, Bangalore	13-02-2015 to 16-02-2015

TOPIC	DELIVERED AT	PERIOD
Simulation in Labview and MATLAB for Biomedical Image Processing	RVS College of Engineering and Technology, Coimbatore - 402	11-02-2015 to 11-02-2015
Research Issues in Biomedical Instrumentation	Kalasalingam University, Srivilliputtur	19-12-2014 to 19-12-2014
Recent advances in computer aided Diagnosis of oral diseases	SIT,Madurai	27-03-2014 to 28-03-2014
Delivered Lecture on Image Segmentation (IETE sponsored)	K.L.N.C.E,Madurai	
Chairperson for IEEE conference ICCCT' 10	Syed Ammal Engg.College,Ramanathapuram	
Two Days workshop on Digital image processing	K.L.N.I.T., Madurai	
Communication Engg. field	Sethu Institute of Technology,Madurai	
Chairperson for FORSCHEN, National level Technical symposium	Sethu Institute of Technology,Madurai	
Lecture on Medical imaging modalities	Kamaraj college,Virudhunagar	4.9.08
Radar communication&satellite Communication	T.V.S. Matriculation Higher secondary School,Madurai	11.10.2007
Digital Electronics	NTTF,Tuticorin	3.10.2006
Digital circuits and techniques	NTTF, Tuticorin	Oct 2006
General	P.S.Y.Engineering college,Arasanoor	24.2.2006
Image Processing	PTR college of engineering and technology, Thanakankulam	Mar 2005
Image Enhancement, segmentation and applications	PTR college of engineering and technology, Thanakankulam	Mar 2005
Engineering field	FORSCHEN 05,Sethu Institute of technology	4.2. 2005
Engineering field	KLN college of information technology	29.9. 2004

TOPIC	DELIVERED AT	PERIOD
Image, Enhancement Segmentation And Applications	Kamaraj College Of Engineering And Technologies, Virudhunagar	14.9.2004
Engineering field	ASKINAS 04 , Raja college of engineering and technology	5.3.2004

Membership

NAME OF SOCIETY	DETAILS	PERIOD
ISTE	life member	--

Other Achievements

1. Patent-Published-First Examination Report Dental Cyst Detector- Dr.A.Banumathi,Dr,(mrs).S.Raju,Dr.V.Abhai kumar US IN2759CH2009
2. Patent-Dental Cyst Detector-Dr.A.Banumathi,Dr,(mrs).S.Raju,Dr.V.Abhai kumar US 9014440 B2,WO 2011058452 A1
3. Invention Award - Automated diagnosis of periodontal diseases in dental radiographs by bifurcation techniques
4. Patent- Dental Caries Detector- Dr.A.banumathi, dr.(mrs).s.raju, Dr.V.Abhai kumar- WO/2011/058453