

Dr.ILA.VENNILA
Associate Professor
Department of Electrical & Electronics Engineering
PSG College of Technology, Coimbatore – 641 004
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EDUCATION

DOCTORATE

(November/2005)
University

Ph.D

PSG College of Technology, Coimbatore/ Bharathiar

**Certain Investigations on the Design of Optimum
Linear Phase FIR Filters and Filter Banks / Digital
Signal Processing**

POSTGRADUATE

(January/1989)

M.E

Communication Systems
College of Engineering, Guindy, Chennai.
Anna University

UNDERGRADUATE

(December/ 1985)

B.E

Electronics and Communication Engineering
Government College of Technology, Coimbatore.
Madras University

EXPERIENCE

20.08.1986/ 30.06.1989	Teaching Research Fellow College of Engineering, Guindy, Chennai.
17.07.1989/ 30.04.1990	Senior Teaching Assistant PSG College of Technology, Coimbatore
02.07.1990/ 17.10.1996	Lecturer (OG) PSG College of Technology, Coimbatore
18.10.1996/17.10.2000	Lecturer (SG) PSG College of Technology, Coimbatore
18.10.2000/02.11.2005	Lecturer (Sl.G) PSG College of Technology, Coimbatore
03.11.2005/31.12.2005	Assistant Professor (RD) PSG College of Technology, Coimbatore

01.01.2006/Till date

Associate Professor
PSG College of Technology, Coimbatore

COURSES HANDLED

UNDERGRADUATE

Electric Circuits
Network Theory
Electro Magnetic Fields
Electron Devices
Electronic Circuits
Measurements and Instrumentation
Communication Engineering
Signals and Systems
Computer Networks
Digital Signal Processing
Digital Image Processing
Human Values and Professional Ethics

POSTGRADUATE

Digital Signal Processing
Digital Image Processing
Wavelets and Applications
Advanced Digital Signal Processing
Analog Systems and Interfacing
Electronic Product Design

RESEARCH AREAS

Speech Signal Processing / EEG Signal - Efficient removal of Artifacts
Medical Image Processing/ Image Denoising
Computer Networks

PUBLICATIONS

INTERNATIONAL JOURNALS

1. Ila Vennila, S. Jayaraman, R. Ravikumar," Design of Optimum Filter Banks by SOGA"EE-Pub, Online Journal, July 2005.
2. Ila.Vennila, S.Jayaraman, R.Ravikumar," Design of Energy Efficient Filter Banks" ACAD, Academic Open Internet Journal, Issue 17, dated 24 4.2006

3. T.Balakumaran, Dr.ILA.Vennila, "A Computer Aided Diagnosis System for Microcalcification Cluster Detection in Digital Mammogram", International Journal of Computer Applications, Vol. 34, No. 1, November 2011.
4. Mary Praveena S., IlaVennila.(2011), 'Certain Investigation on Image Fusion Using Block And Contrast Based Techniques', European Journal of Scientific Research(EJSR) ,Vol.62, No.3,Victoria, Mahe, Seychelles , pp.354-367 (Impact Factor -0.01).
5. Judith Justin & Ila. Vennila 2011, 'Performance of Speech Recognition using Artificial Neural Network and Fuzzy Logic', European Journal of Scientific Research, vol. 66, no. 1, pp. 41-47. (ISSN 1450-216X/1450-202X, Impact Factor-0.713,(SCOPUS Indexed)
6. Brindha, S &Vennila,Ila 2011, 'Hiding Fingerprint in Face using Scattered LSB Embedding Steganographic Technique for Smart card based Authentication system', International Journal of Computer Applications, vol. 26, no.10, pp. 51-55.
7. T. Veerakumar, S. Esakkirajan, and Ila Vennila, "High Density Impulse Noise Removal Using Modified Switching Bilateral Filter", International Journal of Circuits, Systems and Signal Processing, Vol. 6, No. 3, pp.189-196, 2012. SNIP : 0.25
8. Mary Praveena S., IlaVennila.(2012), 'Recognition Based System Using Principal Component Linear Discriminant Analysis', International Journal of Computer Science, Information Technology & Security (IJCSITS) ,Vol.2, No.1,Bangalore, pp.54-58.
9. Mary Praveena S., IlaVennila.(2012), 'Authentication Lossless Visible Water Marking System', International Journal of Computer Science, Information Technology & Security (IJCSITS) ,Vol.2, No.1,Bangalore, pp.199-207.
10. B.Paulchamy and Dr.Ila Vennila, "Comparative evaluation of Adaptive filter and Neuro fuzzy filter in Artifacts removal from EEG Signal" in the American Journal of Applied Sciences. Volume: 9 No:10 :Page: 1583-1593, 2012
11. B.Paulchamy and Dr.Ila Vennila, "A Certain Exploration on EEG Signal for the Removal of Artefacts using power Spectral Density Analysis Through Haar Transform" in the International Journal of Computer Applications. Volume: 42 No: 3: Page: 9-14: March: 2012.
12. B.Paulchamy., and Dr.IlaVennila, "Certain Investigation on EEG Signals for the Removal of Artifacts Using Soft Computing Technique." in the International Journal of Communication and Engineering.Vol.2 Issue 2, June 2012, 01-10
13. Paulchamy B., and Dr.Ila Vennila(2012), 'Certain Investigation on EEG Signals for the Removal of Artifacts Using Multi wavelet Transform', in the International Journal of Engineering and Innovative Technology(IJEIT) Vol.2 Issue 6, Dec 2012.
14. T. Veerakumar, S. Esakkirajan, and Ila Vennila, "An Approach to Minimize Very High Density Salt and Pepper Noise through Trimmed Global Mean", International Journal of Computer Applications, Vol. 39, No. 12, pp. 29-33, 2012.
15. B.Paulchamy and Dr.IlaVennila, "Qualitative Analysis of ICA Based Algorithms for the Removal of Artifacts from EEG Signals" in the Journal of Computer Science Volume: 8 No: 3: Page: 287-295:2012.

16. B.Paulchamy and Dr.IlaVennila, "A proficient system for preventing & Acknowledging about the drunken drive by analyzing the Neuronal –Activity of the Brain." in the Journal of Engineering and Applied Science. Vol. 7, No. 8, August 2012.
17. B.Paulchamy and Dr.Ila Vennila, "A proficient Design of Hybrid Synchronous and Asynchronous Digital FIR Filter Using FPGA" International Journal of Computer Science Issues, Vol. 9, Issue 4, No 1, Page:395-404, July 2012.
18. Balakumaran, T., Ila Vennila and Gowrishankar, C. "Detection of Microcalcification Clusters using Hessian Matrix and Foveal Segmentation Method on Multiscale Analysis in Digital Mammograms", Journal of Digital imaging, Springer- Verlag, Vol. 25, No. 5, pp. 607-619, October 2012 (IF : 1.1)
19. Judith Justin & Ila. Vennila 2013, 'A Hybrid Speech Recognition System with Hidden Markov Model and Radial Basis Function Neural Network', American Journal of Applied Sciences, vol. 10, no. 10, pp. 1148-1153. (Annexure II, S.No.843, ISSN- 1546-9239, (SCOPUS Indexed)
20. Judith Justin & Ila. Vennila 2013, 'Enhancement of Speech Signals using Weighted Mask and Neuro fuzzy Classifier', International Review on Computers and Software, vol. 8, no. 11, (Annexure II, S.No. 8815, Print ISSN-1828-6003, (SCOPUS Indexed)
21. Brindha, S, Vennila, Ila & Nivedetha, B 2013, "Secure User Authentication using Sclera in Quick Response Codes", International Journal of Engineering and Technology (IJET), vol. 5 no. 5, pp. 4199 – 4205. (Annexure –II).
22. Yogapriya, J., & Ila.Vennila, 2013, "An integrated framework based on texture features, cuckoo search and relevance vector machine for medical image retrieval system", American Journal of Applied Sciences, Vol.10, No. 11, pp. 1398-1412, 2013, ISSN No. 1546-9239.
23. Yogapriya, J., & Ila.Vennila, 2013, "A hybrid approach based medical image retrieval system using feature optimized classification similarity framework", American Journal of Applied Sciences, Vol.10, No.6, pp. 549-562. ISSN No. 1546-9239.
24. Yogapriya, J., & Ila.Vennila, 2013, "Feature Dimension Reduction For Efficient Medical Image Retrieval System Using Unified Framework", Journal of Computer Science, Vol.9, No.11, pp.1472-1486, ISSN No. 1549-3636.
25. Pradeepa, P & Ila. Vennila, 2013, 'A Hybrid Retinal Image Registration Using Mutual Information', American Journal of Applied Sciences, vol.10, no.11, pp. 1386-1391, ISSN: 1546-9239 (Annexure II).
26. Pradeepa, P & Ila. Vennila, 2013, 'A Multi resolution Method of Image Registration Using Mutual Information', International Journal of Emerging Trends in Electrical and Electronics, vol.5, issue 2, pp. 07-10, ISSN: 2320-9569.
27. Pradeepa, P & Ila. Vennila, 2013, 'A Multimodal Image Registration Using Mutual Information', International Journal of Research in Engineering & Advanced Technology, vol.1, issue 3, pp. 07-10, ISSN: 2320-8791.

28. S.Saravanan, Deepak Joseph, and Dr.Ila.Vennila, "Study of Logic Gates Using Quantum Cellular Automata "Int. J. on Recent Trends in Engineering and Technology, vol. 8, pp.100-102, Jan 2013.
29. Brindha, S, Vennila,Ila & Abirami, P 2014,'Multifactor Authentication for Online Transaction', International Journal of Research in Computer Applications &Information Technology, vol.2 no.4,pp.1-10.
30. Brindha, S, Vennila,Ila & Nivedetha, B 2014, 'Performance Analysis of Fused Eye Vein and Finger Vein Multimodal Biometric System', International Journal of Engineering Research and Development, vol. 10, no. 7, pp.69-75.
31. Brindha,S &Vennila,Ila 2014, 'An Efficient Feature Extraction and Random Encoding based Cancellable Iris Template Generation Scheme for Automatic Authentication', Australian Journal of Basic and Applied Sciences, vol. 8, no. 17, pp. 196-203. (Annexure II).
32. R.,Arangasamy, R., J. Sundararajan, Ila Vennila and G. Shankar,2014. "Automatic Glucose Insulin Regulation SystemcomparisonOf Embedded Control Design And Harr Wavelet Method For Type-1 Diabetes." *American Journal of Applied Sciences*vol.11,no.3,pp:433-447
33. R. Arangasamy, J. Sundararajan, Ila Vennila and G. Shankar, 2014. Automatic Diabetic Control System Based on Multi-Variant Fuzzy Rule Sets. *Asian Journal of Information Technology*, vol.13,no.3,pp:131-137.
34. R. Arangasamy, J. Sundararajan, Ila Vennila and G. Shankar, 2014., Efficient Method for Insulin Control Pumping in Type 1 Diabetes. *Research Journal of Medical Sciences*, vol.8,no.1,pp: 6-12.
35. T. Veerakumar, S. Esakkirajan, and **Ila Vennila**, "Edge Preserving Adaptive Anisotropic Diffusion Filter Approach for the Suppression of Impulse Noise in Images", *AEU - International Journal of Electronics and Communications (Elsevier)*. SCI: 0.642, May 2014.
36. Yogapriya, J., &Ila.Vennila, 2015, Efficient medical image retrieval system using optimized Classification of local octa patterns ,*International Journal of Applied Engineering Research* , Vol.10, No.32, pp.23538-23552. ISSN:0973-4562.
37. Pradeepa, P & Ila. Vennila, 2015, 'Multimodal Retinal Image Registration using RANSAC Matching and Gradient ICP Algorithm', *Journal of Computer Science*, vol.11, no.1, pp. 89-95, ISSN: 1549-3636 (Annexure II).
38. Arangasamy, R., J. Sundararajan, and Ila Vennila,2015,"Automatic Insulin Injection in Embedded Linear Parameter Varying Techniques for Type 1 Diabetes." *Journal of Medical Imaging and Health Informatics*vol5, no1,pp: 71-78.
39. Pradeepa, P & Ila. Vennila, 2016, 'Retinal Fundus Image Registration via Blood Vessel Extraction Using Binary Particle Swarm Optimization', *Journal of Medical Imaging and Health Informatics*, vol.223, no.16, pp. 514-514, ISSN: 2156-7018 (Print): EISSN: 2156-7026 (Online) (Annexure I). IF – 0.5.

40. Mary Praveena S., IlaVennila, (2016), 'An Effective Security Based Wireless Information System Based on Fusion Principal Component Analysis', *Wireless Pers Commun* (2016) 86:887–899 DOI 10.1007/s11277-015-2960-7, Springer.
41. Subramanian Saravanan, Ila.Vennila, and Sudha Mohanram, "Design and Implementation of Efficient Reversible Arithmetic and Logic Unit", *Circuits and Systems*, 7, 630-642, May 2016, Scientific Research publishing.

NATIONAL JOURNALS

1. S.Jayaraman, Ila vennila and A.sreedhar "Design of Frequency Sampling Filters by using Hybrid Genetic Algorithm Techniques", *Technology, Journal of PSG College of Technology*, December 2002, pp.103-107.
2. Ila.Vennila, S.Jayaraman, R.V.Arun Prasad, K.Ruba Sambavi, M.Santhosh Kumar and T.Saravana Kumar," An Improved Algorithm for Filter Optimization", *Technology, Journal of PSG College of Technology*, December 2002, pp.109-113.
3. Ila Vennila, S Jayaraman, R Ravikumar, "Compact Energy and High Code Gain Filter Banks ", *Technology, Journal of PSG College of Technology*, No.1, Volume1, Dec.2004/March 2005, pp.57-60.
4. Ila.Vennila and A.Rajavel, "Image Denoising using Recursive Neuro-Fuzzy Filter", *Technology, Journal of PSG College of Technology*, No.3, Volume2, September 2006, pp.55-61.
5. Ila.Vennila and S.Thenmozhi, "Multiresolution Medical image Fusion using Pyramid Transform", *Technology, Journal of PSG College of Technology*, No.3, Volume3, September 2007, pp.29-39.
6. Ila.Vennila and Kalaiarasi, "Extraction of Tumor Region from Ultrasound Images (Sonogram)" *National Journal of Technology*, December 2007.
7. Ila.Vennila and Sivakumar, "Keyframe Extraction and Video Indexing for Multimedia Databases" *National Journal of Technology*, December 2008, pp.86-89.
8. Balakumaran, T. and Ila Vennila, "Cluster of Microcalcifications Detection by Adaptive Thresholding based on Multiscale Analysis", *National Journal of Technology (Journal from PSG College of Technology, ISSN – 0973 - 1334)*, Vol. 8, No. 3, pp. 36-44, September 2012.
9. T. Veerakumar, S. Esakkirajan, and Ila Vennila, "Salt and Pepper Noise Removal Using Adaptive Decision based Improved Bilateral Filter", *National Journal of Technology, PSG College of Technology, Coimbatore*. 2013.
10. Brindha, S, Vennila,Ila & Abirami, P 2014, 'Secured Online Banking with encrypted QR code', *National Journal of Technology*, vol.10, no.2, pp. 1-10.
- 11.S.Saravanan, Dr.Ila.Vennila and Lisbin , "Synthesis and Analysis of 4x4 Reversible Gates", *National Journal of Technology*, Vol.11, No.3, September – 2015.

INTERNATIONAL CONFERENCES

1. Ila.Vennila, S.Jayaraman, R.V.Arunprasad, K.Ruba Sambavi, M.Santhosh Kumar and T.Saravana Kumar," Parameter Optimization of FIR Filters using Genetic Algorithm", Presented at DAMS 2003, International Conference on Digital Aided Modeling and Simulation held at CIT, Coimbatore, during Jan 6-8,2003.
2. S.Jayaraman, Ila.Vennila, K.Jayanth Pal, R.M.Siva sankari, R.Srikumar and S.Suresh Kumar, "Optimal Design of Multirate Filter Banks" Presented at International Conference on Innovation in Information and Communication Technology (NCIICT-2003), PSG College of Technology, during Mar. 7-8, 2003.
3. Ila Vennila, S Jayaraman and K Savitha, "Optimum Design of Two Dimensional Filter Banks", Presented at EISCO-2005, International Conference on Emerging Technologies in Intelligent System and Control, KCT, Coimbatore, during 5-7, Jan 2005, pp.289 - 294.
4. Ila.Vennila, B.Paulchamy, and S.Vairaprakash, " FPGA Implementation of Image Watermarking Using Wavelet Trasformation", Proceedings of the International Conference on Advances in Electronics & Communication, National Engineering College, Kovilpatty, on 1-3rd February 2007.
5. Ila.Vennila B.Paulchamy, and R.Saravanakumar , " Independent Componenet Analysis for separation of Epileptic Seizure Signals ", Proceedings of International Conf. on Intelligent Systems and control , Karpagam College of Engg. Coimbatore, Feb.2010.
6. Ila.Vennila, Mary Praveena, and S.Radhika , " Investigation of Image Fusion using Curvelet Transform ", Proceedings of International Conf. on Intelligent Systems and control , Karpagam College of Engg. Coimbatore, Feb.2010.
7. Ila.Vennila,.Mary Praveena, and S.Radhika , " Multiresolution Image Fusion using Curvelet Transform ", Proceedings of International Conf. on Innovative Computing Technologies ,M. Kumarasamy College of Engg. Karur, Feb.2010.
8. L.Ashok Kumar,Dr.Ila Vennila,Dr.T.Ramachandran, "Development of bullet wound detection circuit using flexible PCB for Tele intimation garment" ,National Journal of TECHNOLOGY,vol.6,No.1,March 2010,pp.75-83.
9. S. Mary Praveena and Dr. IlaVennila "Investigation of image fusion using curve let transform" in Karpagam Journal of computer science, March – April 2010.
10. T. Veerakumar, S. Esakkirajan, and **Ila Vennila**, "Salt and pepper noise removal in video using adaptive decision based median filter", International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT'11), Aligarh Muslim University, Aligarh, pp. 87-90, 2011. (**Paper published in IEEE Explore**)

11. Pradeepa, P & Ila. Vennila, 2011, 'A Multistage Method of Image Registration by Maximization of Mutual Information and Intensity Information', International Conference on Computer Communications and Informatics (ICCCI) and published in CiiT Journal, pp. 296-299, ISBN: 978-1-4507-5679-2
12. T.Balakumaran, **Dr.ILA.Vennila** , "Detection of Microcalcification Clusters in Digital Mammograms using Multiresolution based Foveal Algorithm" at the International conference of World Congress on Information and Communication Technologies (WICT-2011) during 11rd-14th December 2011 at University of Mumbai, Mumbai. (indexed by IEEE Xplore,2012
13. T. Veerakumar, S. Esakkirajan, and **Ila Vennila**, "An efficient approach to remove random valued impulse noise in images", International Conference on Recent Trends In Information Technology (ICRTIT), MIT, Chennai, pp. 49-53, 2012. (**Paper published in IEEE Explore**)
14. Judith Justin, Aruna Priyadharsni, R & Ila. Vennila 2012, "Evaluation of PESQ in Speech Enhancement Algorithms",International Conference on Electronics Computer Technology (ICECT 2012), 978-1-4673-1850-1/12 © 2012 IEEE.
15. Pradeepa, P & Ila. Vennila, 2012, 'A Multimodal Image Registration Using Mutual Information', International Conference on Advances in Engineering, Science and Management (ICAESM), March 30-31, pp. 474-4770, ISSN: 978-1-4673-0213-5 indexed in IEEE Explore.
16. S.Saravanan, Dr.Ila.Vennila, and Lisbin , "Low Quantum Cost Logic circuit for Quantum Computers ", Proceedings of **International Conference on Intelligent and Efficient Electrical Systems (ICIEES - 2013)**, PSG College of Technology, Coimbatore, pp. 268-273,December 2013.
17. K.Gokila and Ila.Vennila, "Challenges in Routing Protocol in MANET – A Review ", Proceedings of **International Conference on Intelligent and Efficient Electrical Systems (ICIEES - 2013)**, PSG College of Technology, Coimbatore, pp. 216-222, December 2013.
18. S.Brindha and Ila.Vennila, "An Improved Two Factor Authentication System OTP-EQR for Online Banking ", Proceedings of **International Conference on Intelligent and Efficient Electrical Systems (ICIEES - 2013)**, PSG College of Technology, Coimbatore, pp. 196 - 202,December 2013.
19. P.Rajkumar, Ila.Vennila, and K.Nirmalakumari, "Evaluation of Segmentation Algorithms for Preprocessing of Microarray Images", Proceedings of **International Conference on Intelligent and Efficient Electrical Systems (ICIEES - 2013)**, PSG College of Technology, Coimbatore, pp. 154 – 160, December 2013.
20. S.Karthik and Ila.Vennila, "Power Quality Improvement using Boost Chopper in AC-DC Converter", Proceedings of **International Conference on Intelligent and Efficient Electrical Systems (ICIEES - 2013)**, PSG College of Technology, Coimbatore, pp. 196 - 202,December 2013.

21. Dhivya, R, Judith Justin & Ila. Vennila 2014, 'Assessment of Acoustic Parameters of Prosthetic Voice and comparison with a normal voice', IEEE International Conference on Green Computing, Communication and Electrical Engineering (ICGCCEE), 6-8th March 2014.

NATIONAL CONFERENCES

1. Ila.Vennila, S.Jayaraman and K.J.sudhir "Design of Two Dimensional Multirate Filter and Filter Banks", Presented at NCIEES, PSG College of Technology, during Jan 19-20,2001.
2. Ila.Vennila and S.Jayaraman,"Two Dimensional Multirate Filter from One Dimensional Filter", Presented at NICE, Cochin, during Feb 23-24,2001.
3. Ila.Vennila, S.Jayaraman and V.Kamalapriya,"Design and Implementation of Filter Banks for the Generation of Wavelet Coefficients Applied to Image Compression", Presented at NCEIS-2002, organized by EEE and EIE Departments GCT, Coimbatore, during March 13-14, 2002.
4. Ila.Vennila, S.Jayaraman and R.Ayyappan "Signal De-Noising Using Hidden Markov Tree Model", Presented at National Conference On Power Conversion and Industrial Control, NSS College of Engineering, Palakkad, during Jan. 3-4, 2003.
5. Ms. Ila Vennila, Dr. S.Jayaraman, Mr. R Ayyappan "Performance Evaluation of Image De-noising methods", Presented at National Conference on Advanced Computing (NCAC-2003), PSG College of Technology, during Feb. 1-2, 2003.
6. Ila.Vennila, S.Jayaraman, M.Muthu Kumar, S.Namitha, M.Thenmozhi, Sheryam Jain, "A Fast Feed Forward Active Noise Control System Based on LTJ structure Implemented Using Digital Signal Processor", Presented at National Conference on Emerging Trends in VLSI design and Testing, PSG College of Technology, during Feb. 21-22, 2003.
7. Ila Vennila, S.Jayaraman, D.AnilKumar, M.Arun Kumaran, "Real Time Video and Speech Synthesis with Lip Synchronization ", Presented at National Conference on Emerging Trends in VLSI design and Testing, PSG College of Technology, during Feb. 21-22, 2003.
8. S.Jayaraman, Ila.Vennila, K.Jayanth Pal, R.M.Siva sankari, R.Srikumar and S.Suresh Kumar, "Optimal Design of Multirate Filter Banks" Presented at International Conference on Innovation in Information and Communication Technology (NCIICT-2003), PSG College of Technology, during Mar. 7-8, 2003.
9. Ila.Vennila, S.Jayaraman, N.Balaji, A.Giridhar and K.Ponniah,"Sound onset Detection for Musical Instrument Recognition" Presented at National Conference on Innovation in Information and Communication Technology (NCIICT-2003), PSG College of Technology, during Mar.7-8, 2003.
10. Ila.Vennila, G.S.Siva Prasad, E.M.Praveen ,Koushik Venkataraman and M.Sathya," Speed Control of Three-Phase Induction Motor by Space Vector PWM using

- TMS320C240", Proceedings of second National Conference on Power Conversion & Industrial Controls - PCIC 2004, NSS College of Engineering, Palakkad, July 9-10, 2004.
11. Ila Vennila, S Jayaraman, R Ravikumar, "Code gain Optimization of Filter Banks", presented at NSC 2004, VIT, Vellore, during 16 - 18, December 2004, pp.268-271.
 12. Ila.Vennila, S.Vinod, "Automatic License plate Recognition using Neural Networks", Proceedings of NCAEE 2005,pp.333-338.
 13. Ila.Vennila, B.Paulchamy, "Watermarking for Digital Images using wavelets", presented at National Conference on Extreme Engg. and Technological Advancements at Jayam College of Engg. and Technology, Dharmapuri, during 21-22, April 2006.
 14. Ila.Vennila, A.Rajavel, and B.Paulchamy, " Noise Removal from Image data using Neuro-fuzzy filter", presented at National Conference on Digital Convergence 2006 at R.M.K. Engineering College, Kavaraipettai - Thiruvallur, during 12-13, May 2006.
 15. Ila.Vennila, B.Paulchamy, and S.Vairaprakash, " FPGA Implementation of Image Watermarking Using Wavelet Trasformation", Proceedings of the International Conference on Advances in Electronics & Communication, National Engineering College, Kovilpatty, on 1-3rd February 2007.
 16. Ila.Vennila and B.Paulchamy, "A Non linear Estimation Model for Adaptive Minimization of Artifacts from EEG Signals" Proceedings of 4th National Conference on Emerging Trends in Computer Communication and Networks, Adhiyamaan College of Engineering, Hosur on 21st & 22nd February 2008.
 17. Ila.Vennila and B.Paulchamy, " Minimization of EOG Artifacts from EEG Signal ", Proceedings of the 5th National conference on Application of Emerging Technologies, Adhiyamaan College of Engineering ,Hosur on 24th & 25th March 2008.
 18. Ila.Vennila B.Paulchamy, and R.Saravanakumar , " Minimization of Eye movement Artifacts in EEG Recordings ", Proceedings of National Conf. on Advances in Comm. and Computing , Karpagam College of Engg. Coimbatore, Sept.2009.
 19. S.Saravanan and Dr.Ila.Vennila ," Design of Reversible 8x8 vedic multipliers using TSG and HNG gates", Proceedings of National conference on Research Issues in Computing held at PSG College of Technology, Coimbatore, during April 24-25, 2015.

SEMINARS / CONFERENCES ORGANISED

S.No.	Program	Venue / Duration of the program
1.	International Conference on Intelligent and Efficient Electrical Systems	PSG College of Technology, EEE Department / DEC 12 -14, 2013

2.	TEQIP –II Sponsored Faculty Development Programme on Analysis of Electrical and Electronic System using MATLAB and PSPICE	PSG College of Technology, EEE Department / JUN 20-26, 2013
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SEMINARS / CONFERENCES ATTENDED

S.No.	Program	Venue / Duration of the program
1.	Instruction Enhancement programme in Electronic Devices sponsored by project IMPACT	IIT Delhi 25 th May – 17 th July 1992
2.	Tenth National Convention on Electronics and Telecommunication Engineers, IE(I)	IE(I) Coimbatore Local centre & PSG College of Technology, Coimbatore/ Oct.21-22, 1994
3.	ISTE Winter School on Wind and Solar Based electric Power Generation and Conversion	PSG College of Technology, EEE Department / Nov.14-26, 1994
4.	Short Term Course under the Continuing Education Program on Advanced topics in Telematics	Electrical Engg., and CSE Depts., IIT Madras/ Dec.12-22,1995
5.	ISTE Winter School on Recent Trends in Computer Communication	ECE Dept.,P.S.G. College of Technology, Coimbatore/ March 1-14, 1996
6.	ISTE Winter School/IMPACT IEP on Relational database Management Systems	P.S.G. College of Technology, Coimbatore. Feb. 17 - March 14, 1997
7.	AICTE Short Term course on Signal Processing and Image Processing	Indian Institute of Science, Bangalore 9-20, February 1998
8.	Summer School Programme on DSP, Wavelets, Fractals and Chaos	Amrita Institute of Technology and Science, Coimbatore 17 - 28, May 1999
9.	Workshop on TQM & ISO 9000 in Educational Institutions	P.S.G. College of Technology, Coimbatore/ 9-10, Sep.1999
10.	A Training Course on Internal Quality Audit	ZANDIG TQM Solutions, Bangalore conducted at P.S.G. College of Technology, Coimbatore/ August 18&19, 2000
11.	National Conference on technology Convergence for Information, Communication and Entertainment NICE 2001	IETE Cochin Centre/ Feb. 23-24, 2001
12.	DSP education Symposium 2002	ECE Dept., P.S.G. College of Technology, Coimbatore/ Jan.19-20, 2002
13.	National Conference on Modern Trends in Electrical and Instrumentation Systems	EEE & ECE Depts., Govt. College of Technology, Coimbatore/ March 13-14, 2002
14.	International Conference on Digital Aided Modelling and Simulation (DAMS 2003)	Coimbatore Inst. of Technology, Coimbatore/ Jan. 6-8, 2003
15.	AICTE-ISTE STTP workshop on	AMRITA Inst. of Tech. &Science,

	Wavelet Based Computer Graphics and image processing	Coimbatore/ Jan. 20-31, 2003
16.	AICTE-ISTE STTP on New Trends in Biomedical Engineering	EEE Department, PSG College of Technology, Coimbatore/ Nov. 9-22, 2003
17.	Faculty Training Programme on Electromagnetic Compatibility	AMRITA School of Engg., Coimbatore/ January 8 -12, 2007
18.	International Conference on Intelligent Systems and Control	Karpagam College of Engg., Coimbatore/ February 4 - 5, 2010
19.	Two week ISTE Workshop on Introduction to Research Methodologies	IIT Bombay; Remote Centre: PSG College of Technology, Coimbatore/ 25.6.12 – 04.7.12.
20.	TEQIP - Faculty Development programme on Engineering solutions through MATLAB	Government College of Technology, Coimbatore/ October 11-17, 2012.

21.	TEQIP sponsored Faculty Development programme on Sensor Networks and Cloud Computing	Government College of Technology, Coimbatore/ February 12-18, 2013.
22.	AICTE Sponsored FDP on 'Research Challenges and Emerging Trends in Intelligent Information Retrieval'	PSG College of Technology, 29.4.2013 – 12.5.2013
23.	TEQIP –II Sponsored Faculty Development Programme on Analysis of Electrical and Electronic System using MATLAB and PSPICE	PSG College of Technology, Coimbatore /June 20-26, 2013
24.	TEQIP-II Sponsored Management Capacity Enhancement Program on 'Academic Leadership and Excellence'	PSG College of Technology in Collaboration with IIMB OCT 24, 2013
25.	AICTE Sponsored FDP on Verification and testing of VLSI circuits	PSG College of Technology, ECE Department / NOV 6-19,2013
26.	Third National Conference on Information & Communication Systems	INFO Institute of Engg.,Coimbatore/ March 21-22, 2014.
27.	TEQIP –II Sponsored One Week Faculty Development Programme on Real-Time Embedded Systems and internet of Things (IoT)	PSG College of Technology, Coimbatore/ June 22 – 28, 2016
28.	TEQIP –II Sponsored One Week Faculty Development Programme on Research Perspectives of Signal Processing	PSG College of Technology, Coimbatore/ August 5 –11, 2016

SPECIAL LECTURES DELIVERED

S.No.	Program	Topic	Venue / Duration
1.	AICTE sponsored STTP on DSP	Multirate DSP	Kumaraguru College of Technology, Coimbatore. 21.06.2006.
2.	AICTE sponsored STTP on Introduction and Applications of Neuro, Fuzzy, and Genetic systems	Optimum Design of FIR Filters	PSG College of Technology, Coimbatore. 21.12.2006.
3.	IEEE Student Branch Chapter	DSP and its Applications	Karpagam Coll.of Engg., Coimbatore. 27.09.2007.
4.	SDP on Graphical system Design using Virtual Instrumentation	Compact energy Filters	Dept.of ICE,PSG College of Tech., Coimbatore. 27.5.2008.
5.	AICTE-ISTE STTP on Metaheuristics	Digital Filter Design using GA	Karpagam Coll.of Engg., Coimbatore. 29.06.2008.
6.	Workshop on “Algorithms in Image Processing”	Design of Optimum Filters and Applications	Velalar College of Engg. and Tech.,Erode . 06.09.2008
7.	Special Talk for PG Students and Research Scholars	DSP and its Applications	Bharathiar University,Coimbatore. 10.03.2011.
8.	Workshop on Image Processing	Image Processing: An Introduction	AMRITA University, Coimbatore. 15.12.2011.
9.	TEQIP Sponsored FDP on 2D Signal Processing using Wavelets	Detection of Micro Calcification	Govt. College of Tech., Coimbatore. 12.09.2012.
10.	FDP on Digital Signal Processing	Multirate Signal Processing	Bannari Amman Inst. of Tech., Sathyamangalam. 6.12.2012.

AWARDS

Guided the Project “ Real –Time Texture Defect Detection using Sub-Band Domain Feature Extraction” using LabVIEW , which won the **First Prize of VI MANTRA 2002** , an Inter-Collegiate National Level Tech Fest held at National Instruments Inc., Bangalore, during 22-23, October 2002.

MEMBERSHIP OF PROFESSIONAL BODIES

ISTE-Life member-LM 11133

DOCTORAL GUIDANCE / SUPERVISION

Number of Ph.D under progress	:	6
Number of Ph.D Completed	:	10