



Sri Ramakrishna Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC with "A" Grade)

Pachapalayam, Perur Chettipalayam, Coimbatore – 641 010

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Faculty Profile

Full name with Qualification, Designation and
Department:

Dr. Paulraj Murugesu Pandiyan,,B.E., M.E., Ph.D.,

Principal,

Computer Science and Engineering



Date of birth	:	05.05.1961	Gender	:	Male
Nationality	:	Indian	Marital status	:	Married
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Mobile no	:	7373488599	e-mail (official)	:	principal@srit.org
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Date of joining	:	20.01.2016	Post of joining	:	Principal
No of promotions since D.O.J	:	-	Present post	:	Principal
Present pay scale	:	37,400-67,000 +AGP 10,000+ SPA 3000	Gross pay	:	Rs 1,60,508
Employer ID	:	TE001	Bank account No. (Salary credited)	:	500101010501861
P.F. No	:	TN/CBE/56764/72 0	Group Insurance No	:	AG00059675000104

PAN Number	:	AIKPP5520G	Aadhar Number	:	598982400558
AICTE ID	:	1-2913895386	AICTE Institution ID	:	1-7841521

Educational Qualification

Degree	Specialization	Year of Passing	Name of the College	Name of the University	Class Obtained
UG	Electrical and Electronics Engineering	May-1983	Government College of Technology	Madras University India.	First Class
PG	Computer Science and Engineering	Feb-1991	Government College of Technology	Bharathiar University, India.	First Class
Ph.D	Computer Science and Engineering	August-2001	Bharathiar University, India.	Bharathiar University, India.	Highly Comm ended
Others					

Registration for Ph.D. with area of interest: Neuro Fuzzy Systems

Year of Ph. D. Registration:

Year of Ph. D. Completed: 2001

Thesis Title: Certain Investigations on the Stability and Stabilization of a Class of Neural and Fuzzy Systems Computer Science

Supervisor Recognition Number: 2740082

Ph.D. Scholar Details

S.No.	Name of the scholar	Registration details	College	Status
1	Ms. R. Priyadharshini	19244697272	Sona College of Technology	Thesis Submitted
2	Ramkumar E	17143691164	Sri Ramakrishna Institute of Technology	Confirmation completed
3	Marimuthu M	17144691495		Confirmation completed

4	Kirthika K M	17244691275	Sri Ramakrishna Institute of Technology	Confirmation completed
5	Saranya K	17244691276	Sri Ramakrishna Institute of Technology	Confirmation completed
6	Brindha M	17244691532	Chennai Institute of Technology	Confirmation completed
7	Savitha S J	17244697589	Sri Ramakrishna Institute of Technology	Confirmation completed
8	Meenachi V R	17254697391	Sri Ramakrishna Institute of Technology	Confirmation completed
9	Revathi S	18244691480	Sri Ramakrishna Institute of Technology	Confirmation completed

Academic Experience

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Ramakrishna Institute of Technology, Coimbatore-10	Principal	Jan 2016	Till Date	8	-	-
School of Mechatronic Engineering, Universiti Malaysia Perlis, Kangar, Perlis, Malaysia	Professor	Jun 2013	Dec 2015	2	6	-
School of Mechatronic Engineering, Universiti Malaysia Perlis, Kangar, Perlis, Malaysia	Associate Professor	Dec 2005	May 2013	7	5	-
Computer Science Program, School of Engineering and Information Technology,	Lecturer	Sep 2002	Sep 2005	3	-	-

Universiti Malaysia Sabah, Kota Kinabalu, Malaysia						
Computer Science and Engineering, GCT Campus, Anna University, Coimbatore, India	Assistant Professor	Jul 2002	Aug 2002	-	1	-
Electrical and Electronics Engineering, Government College of Technology, Coimbatore, India	Selection Grade Lecturer	Apr 1998	Jun 2002	4	2	-
Electrical and Electronics Engineering, Government College of Technology, Coimbatore, India	Senior Grade Lecturer	Mar 1996	Mar 1998	2	-	-
Directorate of Technical Education, State Government of Tamil Nadu, Madras, India	Technical Assistant to Director	Jun 1992	Feb 1996	3	8	-
Electrical and Electronics Engineering, Government College of Technology, Coimbatore, India	Lecturer	Sep 1983	Apr 1992	8	6	-
Diploma in Electronics and Communication Engineering, Mohamed Sathk Polytechnic, Kilakarai, India	Instructor	May 1983	Aug 1983	-	3	-
Total				42	5	-

Industrial Experience

Industrial Experience							
Name of the Organization	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
NIL							
Total							

Courses Handled

Academic Year	Semester	Course Code	Course Name	Type of Course (T / L)	Pass Percentage
2022-2023	I	20ITG01	Programming For Problem Solving Using C	Theory	77%
2022-2023	II	20ECG01	Electric Circuits	Theory	89%

Projects Guided

Academic Year	Semester	Project Title	UG / PG

Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	52	
Conferences	298	

Journal Publications (IEEE format):

1. Paulraj M P, Sazali Yaacob, M Hariharan, "Diagnosis of Voice Disorders using Mel-Scaled WPT and Functional Link Neural Network", International Journal of Biomedical Soft Computing and Human Sciences, BioMedical Fuzzy Association, Japan, Vol. 14, no 2, April 2009, Impact Factor 0.8.
2. Paulraj M P, Hema C R, R Nagarajan, Sazali Yaacob, Abdul Hamid Adom, "Classification of EEG Mental Tasks using PSO Neural Network for Brain Machine Interfaces", International Journal of Advancement of Modeling and Simulation Techniques In Enterprises (AMSE), France, 2008.
3. Paulraj M P, Sazali Yaacob, S N Sivanandam, M Hariharan, "Improved Back propagation Neural Network for the Diagnosis of Pathological Voices", International Association for Modeling and Simulation Technique in Enterprise (AMSE Journal), France, 2008.
4. Paulraj M P, Abdul Hamid Bin Adom, Hema C R and Divakar Purushothaman, "Analysis of Visual Colour Perception using EEG Spectral Features", Karpagam Journal of Computer Science, India, Vol 6. no.2, pp. 74-81, 2012.
5. Paulraj M P, Sazali Bin Yaacob and Allan Melvin Andrew, "Stationary and Non-Stationary Vehicle Cabin Noise Level Identification using Spectral Composite Features and Neural Networks", Karpagam Journal of Computer Science, India, Vol 6. no.2, pp. 82-92, 2012.

6. Paulraj M P, Abdul Hamid Adom, Hema C R, Sathishkumar Sundararaj, "Acoustic signature recognition of moving vehicle using Elman neural network", Karpagam Journal of Computer Science, Coimbatore, India , Vol 6. no.4, pp. 183-189, 2012.
7. Paulraj M P, Sazali Yaacob, Mohd Shuhanaz Zonar Azala N and Rajkumar Palaniappan, "A Phoneme Based Sign Language Recognition System using Neural Network", International Journal of Digital Content Technology and applications - vol. 3, issue 3, pp 51- 57, October 2012 ISSN: 2180-1347.
8. Paulraj M P, Hema C.R, Sazali Yaacob, Mohd Shuhanaz Zonar Azalan and Rajkumar Palaniappan, "Gesture Recognition System using 2D-Invariant Moment Feature and Elman Neural Network", Int. J. of Artificial Intelligence and Soft Computing (IJAISC). Inder Science - Paper accepted for publication- 2013.
9. Paulraj M P, Hema C.R, Sazali Yaacob, Mohd Shuhanaz Zonar Azalan and Rajkumar Palaniappan, "Gesture Recognition System using 2D-Invariant Moment Feature and Elman Neural Network", Int. J. of Artificial Intelligence and Soft Computing (IJAISC). (Inder Science) - Accepted for publication 2013.
10. Paulraj M P, Allan Melvin Andrew, "Classification of Interior Noise Comfort Level of Proton Model Cars using Feedforward Neural Network", Int. J. of Artificial Intelligence and Soft Computing (IJAISC). (Inder Science) - Accepted for publication 2013.
11. Paulraj M P, Abdul Hamid Adom, Sazali Bin Yaacob, Hema C R, Erdy Sulino Mohd Muslim Tan, Sathees Kumar Nataraj, "EEG Based Communication System for NMD Patients in Generalized & Customized Modes", International Journal of Electrical & Electronics Systems Research, IJEESR, Vol. 6 June 2013, Malaysia, Accepted for Publication.
12. Paulraj M P, Kamalraj Subramaniam, Sazali bin Yaccob, Abdul Hamid bin Adom, Hema C R," Detection of conductive and sensorineural hearing loss using auditory evoked brainstem evoked response", Journal of Next Generation Information Technology, Korea, (Accepted for Publication)
13. 13. Paulraj M P, Kamalraj Subramaniam, Sazali Bin Yaccob, Abdul Hamid Bin Adom, Hema C R, "Auditory Evoked Potential Response and Hearing Loss: A Review", The Open Biomedical Engineering Journal 02/2015; 9(1):17-24. (Published)
14. Paulraj M P and Jackie The, "Mel-Frequency Band Structure Based Features For Motor Imagery Task Classification", Journal Technology, University Technology Malaysia (Accepted for Publication)'
15. Paulraj M P, Kamalraj Subramaniam and Hema C R, "Classification of Hearing Perception Level Using Auditory Evoked Potentials", University Technology Malaysia (Accepted for Publication)

16. Hema C R, Paulraj M P, R Nagarajan, Sazali Yaacob, Abdul Hamid Adom, "Application of Particle Swarm Optimization for EEG Signal Classification", International Journal of Biomedical Soft Computing and Human Sciences, Vol.13, No.1, pp.87-92, ISSN1345-1529, Japan, March 2008, Impact Factor 0.8
17. Hema C R, Paulraj M P, R Nagarajan, Sazali Yaacob, Abdul Hamid Adom, "EEG Motor Imagery Classification of Hand Movements for a Brain Machine Interface", International Journal of Biomedical Soft Computing and Human Sciences, Vol 14, No.2., Japan, April 2009, Impact Factor 0.8.
18. Hema C R, Paulraj M P, Sazali Yaacob, Abdul Hamid Adom, R Nagarajan, "Brain Machine Interfaces: A Comparison between Fuzzy and Neural Classifiers", International Journal of Innovative Computing, Information and Control, Vol.5, No.6, ISSN 1349 4198, Taiwan, June 2009. Impact Factor 1.537.
19. S N Sivanandam, Paulraj M P, "A Neural Network Approach for Defects Identification in Fabrics", Journal of the Institute of Engineers, India, (Textile Engg.), Vol.81, pp.10–11, August 2000.
20. S N Sivanandam, Paulraj M P, A Ramesh, "An Improved Pattern Classification using Back propagation Neural Network", Journal of the Institute of Engineers, India, (Textile Engg.), Vol.81, pp.21–22, August 2000.
21. S N Sivanandam, Paulraj M P, "An Approach for Image Classification using Backpropagation Scheme", IETE Journal of Research, Vol.46, No.5, pp.315-317, India, October 2000.
22. R Nagarajan, Sazali Yaacob, Paulraj M P, M Karthigayan, Mohamed Rizon, "Feature Extraction Methods for IC Chip Marking Inspection – A Comparison", Iraqi Journal of Electrical and Electronic Engineering, Vol.2, No.1, pp.7-18, Iraq, 2006.
23. R Nagarajan, Sazali Yaacob, Paulraj M P, M Karthigayan, Shamsudin Hj Amin, Marzuki Khalid, "A Real Time Marking Inspection Scheme for Semiconductor Industries", International Journal of Manufacturing Technology, Springer Journal, UK, 2006. Impact Factor 1.071
24. Hema C R, Paulraj M P, R Nagarajan, Sazali Yaacob, "Segmentation and Location Computation of Bin Objects", International Journal of Advanced Robotic Systems, Vol.4, No.1, pp.57-62, ISSN 1729-8806, 2007. Impact factor 0.326
25. Hema C R, Paulraj M P, R Nagarajan, Sazali Yaacob, "Bin Object Recognition using Image Matrix Decomposition and Neural Networks", Iraqi Journal for Electrical and Electronic Engineering, Vol.3, No.1, pp.60-64, ISSN 1814-5892, Iraq, 2007.
26. Hema C R, Paulraj M P, R Nagarajan, Sazali Yaacob, Abdul Hamid, "Brain Machine Interface: Analysis of Segmented EEG Signal Classification Using Short-Time PCA and

Recurrent Neural Networks”, International Journal of Electrical and Electronic Engineering, Vol.4, No.1, pp.77-85, ISSN 1814-5892, Iraq, 2008.

27. Hema C R, Paulraj M P, Sazali Yaacob, Abdul Hamid Adom, Nagarajan R, “Motor Imagery Signal Classification for a Four State Brain Machine Interface”, International Journal of Biomedical Sciences (IJBS) , Vol.3, No.1, pp.76-81, ISSN: 2070-3848, France, December 2008.
28. R Nagarajan, Paulraj M P, Sazali Yaacob, Zaridah Mat Zain, Rosfariedzah Rusli, “An Adaptive-Predictive Fuzzy Logic controller for the attitude control of a micro-satellite”, International Association for Modeling and Simulation Technique in Enterprise(AMSE Journal), France, 2008.
29. Sazali Yaacob, Paulraj M P, S A Mohd Yusof, "Improved Classification of Malaysian Spoken Vowels using Formant Differences", Proceedings of Journal of ICT, Vol.7, 2008.
30. Hema C R, Paulraj M P, Sazali bin Yaacob, Abdul Hamid bin Adom and R. Nagarajan, “An Analysis of the Effect of EEG Frequency Bands on the Classification of Motor Imagery Signal”s, IJBSCHS(2010-16-01-14) Biomedical Soft Computing and Human Sciences, Vol.16,No.1,pp.121-126, (Accepted on 2009.12.26)
31. Hema C R, Paulraj M P, Sazali bin Yaacob, Abdul Hamid bin Adom and R. Nagarajan, “Comparison of Static and Dynamic Neural Network Classifiers for Brain-Machine Interfaces”, International Journal of Electrical and Electronic Systems Research, Vol.3, pp. 1-7June 2010.
32. Muthukumaran S, Thyagarajah K and Paulraj M P, "Short Term Load Forecasting using Functional Link Network”, European Journal of Scientific Research 51 (3), pp. 315-320, 2011.
33. Hariharan M, Paulraj M P and Sazali bin Yaacob, “Detection of Vocal Fold Paralysis and Oedema using Time-domain Features and Probabilistic Neural Network”, International Journal of Biomedical Engineering and Technology Vol. 6 no. 1, pp. 46-57, 2011.
34. M. Ridhwan Tamjis , M Naufal Mansor, Paulraj M P, Sazali bin Yaacob, A Nazri Abdullah and Raymond B W Heng, “Performance Comparison of the Artificial Neural Network and the K-Nearest Neighbor Classifiers in Classroom Speech Intelligibility Prediction Application”, International Journal of Research and Reviews in Artificial Intelligence, Science Academy Publisher, United Kingdom, Vol. 1, no. 1, March 2011.
35. Yusnita M A, Paulraj M P, Sazali Bin Yaacob, Shahrman and Satheesh Kumar "Fuzzy Logic Inference System for Voiced-unvoiced-Silence Classification of Malaysia English Isolated Words based on Time-Domain Features, Journal of Computer Science, India, Vol 6. no.2, pp. 93-202, 2012.
36. Hema C R, Vivian Tang Sui Lot, Paulraj M P, “Design and Development of a Gripper System for an Indoor Service Robot”, Journal of Computer Science, Coimbatore, India , Vol 6. no.4, pp. 196-203, 2012.

37. Hema C R, Paulraj M P, "Four State Brain Interface Design using Funtional Link Networks", International Journal of Electrical and Electronics System Research, vol 5, June 2012, ISSN 1985-5389.
38. N. Abdul Rahim , Paulraj M P, A.H. Adom, "Adaptive Boosting with SVM Classifier for Moving Vehicle Classification" , Journal of Procedia Engineering, Volume 53 (2013), Pages 411–419 (ISSN: 1877-7058).
39. N. Abdul Rahim , Paulraj M P, A.H. Adom, "Heterogeneous Multi-Classifiers for Moving Vehicle Noise Classification using Bootstrap Method" , International Journal of Engineering and Advanced Technology™ (IJEAT), Volume-2, Issue-4, April 2013 (ISSN: 2249-8958) (Impact Factor 1.0)
40. M. A. Yusnita, M. P. Paulraj, Y. Sazali, A. B. Shahrman, and M. Nor Fadzilah, "Statistical Band Selection for Descriptors of MBSE and MFCC-based Features for Accent Classification of Malaysian English," International Journal of Electrical and Electronic Systems Research (IJEESR), vol. 6, 2013. (Paper Accepted for publication)
41. Saidatul Ardeenawatie, Paulraj M P, Sazali Yaacob, Statistics over Features: Mental Stress Recognition, International Journal of Scientific and Engineering Research. Accepted for Publication. 2013.
42. Saidatul Ardeenawatie, Paulraj M P, Sazali Yaacob, Mental Stress Level Classification using Eigeon vector Features and Principal Component Analysis, International Journal of Scientific and Engineering Research. Accepted for Publication. 2013.
43. M. A. Yusnita, Paulraj M P, Y. Sazali, Y. Rihana, and A. B. Shahrman, "Analysis of Accent-sensitive Words in Multi-resolution Mel-frequency Cepstral Coefficients for Classification of Accents in Malaysian English " International Journal of Automotive and Mechanical Engineering, 2013.
44. 29. Yusnita M A, Paulraj M P, Sazali Yaacob, Shahrman, Yusuf R and Nordin, Shahilah, "On the use of Spectral Feature Fusions for Enhanced Performance of Malaysian English Accents Classification", Regional Conference on Sciences, Technology and Social Sciences , November 23-25, 2014.
45. 30. Yusnita M A, Paulraj M P, Sazali Yaacob, Shahrman, Yusuf R and Nordin, Shahilah, "Robustness Analysis of Feature Extractors for Ethnic Identification of Malaysian English Accent Database", Regional Conference on Sciences, Technology and Social Sciences , November 23-25, 2014.
46. 31.Hema C R, Ram Kumar S, Paulraj M P, "Classification of Eye Movements Using Electrooculography and Neural Networks". Int. Journal of Human Computer Interface, Volume (5): Issue (4): 2014, pp 51-63.
47. 32. N Farhana, M S Abdul Majid, Paulraj M P and Helmi E A, "Vibration response behaviour of glass fibre/epoxy laminates at various volume fractions", Applied Mechanics and Materials, vol 695 (2015), pp 721-724, Trans Tech Publication, Switzerland. (Published)

48. 33. Norasmadi Abdul Rahim, M.P. Paulraj, Abdul Hamid Adom, Shazmin Aniza Abdul Shukor¹, Maz Jamilah Masnan , “Homogeneous Multi-classifier Ssystem for Moving Vehicles Noise Classification based on Multilayer Perceptron”, Journal of Intelligent and Fuzzy Systems, IOS Press, ISSN 1064-1246, (Print), 1875-8967, <http://iospress.metapress.com/content/v671024763389026/> (Published)
49. M. Karthigayan, R. Nagarajan, Sazali Yaacob, Paulraj M P, and Mohamed Rizon, "Artificial Intelligence in IC Chip Marking Inspection", KUKUM Research Journal, pp.17-29, Kangar, Perlis, Malaysia, 2005.
50. Hema C.R., Paulraj M P, Nagarajan R, Sazali Yaacob, “Stereo Sensors Based Object Segmentation and Location for A Bin Picking Adept SCARA Robot”, Journal of Engineering Research and Education, Malaysia, Vol.4, pp.11-19, ISSN 1823-2981, 2007.
51. Hema C.R., Paulraj M P, Nagarajan R., Sazali Yaacob, ‘Stereo Vision System for A Bin Picking Adept Robot’ Malaysian Journal of Computer Science, Vol.20, No.1, pp.91-96, ISSN 0127-9084.
52. Hema C R, Paulraj M P, Sazali Yaacob, Abdul Hamid Adom, Nagarajan R, “Brain Machine Interfaces: Recognition of Mental Tasks using Neural Networks and PSO Learning Algorithms”, Journal of Electrical & Electronic Systems Research (JEESR), Vol.2, June 2009.

Conference Publications (IEEE format)

1. Paulraj M P, S N Sivanandam, K Thyagarajah, M Madheswaran, S Muthu Kumaran, “Systole function Activated feedforward Neural Network for Short-Term Load Forecasting”, Proceedings of International Conference on Advanced Computing, Coimbatore, India, December 2003.
2. Paulraj M P, Sazali Yaacob, Mohd Kamel Wan Ibrahim, C Karthikeyan, “Active Noise Cancellation using Artificial Neural Networks”, Proceedings of Institute of Acoustics – Spring Conference, UK, March 2004.
3. Paulraj M P, Sazali Yaacob, R Nagarajan and Augustina Aegidus Sitiol, “Detection of Lesion in Retinal Images using Artificial Neural Network”, Proceedings of Internaltional Conference on Computer Graphics, Imaging Visualization, Penang, Malaysia, July 2004.
4. Paulraj M P, Lilian Gungat, Nurmin Bolong, Sazali Yaacob, Doh Shu Ing, “Analysis of Road Side Noise Distribution using Artificial Neural Networks”, Proceedings of 2nd International Conference on Artificial Intelligence in Engineering and Technology, pp.150-153, Kota Kinabalu, Malaysia, August 2004.
5. Paulraj M P, Sazali Yaacob, Mohd Kamel Wan Ibrahim, C Karthikeyan, “Active Noise Cancellation of Pink Noise Source using Functional Link Neural Networks”, Proceedings of

2nd International Conference on Artificial Intelligence in Engineering and Technology, pp.275-279, Kota Kinabalu, Malaysia, August 2004.

6. Paulraj M P, Sazali Yaacob, Patricia Anthony, Ung Ling Ling, "Noise Signature Based Diagnosis of Vehicle Engine Faults using Neural Networks", Proceedings of 2nd International Conference on Artificial Intelligence in Engineering and Technology, pp.811-815, Kota Kinabalu, Malaysia, August 2004.
7. Paulraj M P, S. Kalaifarasi Anbanathan, Ali Chekima, R Nagarajan, "Classification of Diabetes using Error Backpropagation Algorithm with systole activation function", Proceedings of 2nd International Conference on Artificial Intelligence in Engineering and Technology, pp.403-405, Kota Kinabalu, Malaysia, August 2004.
8. Paulraj M P, R Nagarajan, Augustina Sitiol, "Lesion detection of Retinal Image using Artificial Neural Networks", Proceedings of 2nd International Conference on Artificial Intelligence in Engineering and Technology, pp.399-402, Kota Kinabalu, Malaysia, August 2004.
9. Paulraj M P, Sazali Yaacob, Azali Saudi and Chin Kim, "Certain Improvement for Fingerprint Recognition using Image Preprocessing", Proceedings of 12th International Conference on Advanced Computing and Communication, pp 154 – 161, Ahmedabad, India, December 2004.
10. Paulraj M P, Sazali Yaacob, Mohd Kamel Wan Ibrahim and C Karthikeyan, "Radial Basis Function Neural Modeling and Control for Active Noise Cancelation", Proceedings of 12th International Conference on Advanced Computing and Communication, pp 120-124, Ahmedabad, India, December 2004.
11. Paulraj M P, Sazali Yaacob, Lilian Gungat, Nurmin Bolong and Doh Shu Ing, "Analysis of Roadside Noise Distribution using Elman Neural Network", Proceedings of 12th International Conference on Advanced Computing and Communication, pp 114-119, Ahmedabad, India, December 2004.
12. Paulraj M P, Sazali Yaacob, Patricia Anthony and Ung Ling Ling, "Vehicle Engine Faults Diagnosis using Neural Network", Proceedings of 12th International Conference on Advanced Computing and Communication, pp.109-113, Ahmedabad, India, December 2004.
13. Paulraj M P, Sazali Yaacob, Azali Saudi and Chin Kimon, "Certain Improvements in Processing Finger Print Image using Artificial Neural Network", Proceedings of International Conference on Emerging Technologies in Intelligent System and Control, pp.358-363, Coimbatore, India, January 2005.
14. Paulraj M P, Lilian Gungat, Nurmin Bolong, Sazali Yaacob and Doh Shu Ing, "Analysis of Roadside Noise Barrier using Modified Elman Network", Proceedings of International Conference on Emerging Technologies in Intelligent System and Control, pp.413-417, Coimbatore, India, January 2005.

15. Paulraj M P, Sazali Yaacob, Mohd. Kamel Wan Ibrahim and C Karthikeyan, "Active Noise Cancellation using Functional Link Neural network", Proceedings of International Conference on Emerging Technologies in Intelligent System and Control, pp.418-423, Coimbatore, India, January 2005.
16. Paulraj M P, Sazali Yaacob, Patricia Anthony and Ung Ling Ling, "Neural Network in Faults Diagnosis using Learning Vector Quantization", Proceedings of International Conference on Emerging Technologies in Intelligent System and Control, pp.489-494, Coimbatore, India, January 2005.
17. Paulraj M P, Sazali Yaacob, Mohd Kamel Wan Ibrahim and Clarentino L Aduk, "Prediction of Speech Intelligibility in University Classrooms using Feedforward Neural Network", Proceedings of International Conference on Man-Machine Systems, Langkawi, Malaysia, September 2006.
18. Paulraj M P, Sazali Yaacob, Mohd Kamel Wan Ibrahim and Clarentino L Aduk, "Development of a Speech Intelligibility Model in University Classrooms using Elman Neural Network", Proceedings of International Conference on Artificial Intelligence in Engineering and Information Technology, pp.22-23, Kota Kinablu, Malaysia, November 2006.
19. Paulraj M P Sazali Yaacob Jamilah Karim and Mohd Kamel Wan Ibrahim, "Active Noise Control Using Elman Neural Network", Proceedings of International Conference on Artificial Intelligence in Engineering and Information Technology, pp.22-23, Kota Kinablu, Malaysia, November 2006.
20. Paulraj M P, Sazali Yaacob, Ahmad Nazri, M Thagirarani, "Classroom Speech Intelligibility Prediction using Backpropagation Neural Network", Proceedings of International Conference on Modeling and Simulation, Vol.I, pp 519-525, Malaysia, 2007.
21. Paulraj M P, Sazali Yaacob, S N Sivanandam, M Hariharan, "Automatic Detection of Voice Disorders using Self Loop Architecture in Back Propagation Network", Proceedings of 2nd International Conference on Signal Processing, Communications and Networking, pp 409-413, Chennai, India, 2007.
22. Paulraj M P, R Badlishah Ahmad, Hema C R, Fadzilah Hashim, Sofian Yusoff, "Active Stereo Vision Based System For Estimation of Mobile Robot Orientation using Affine Moment Invariants", Proceedings of 1st International Conference on Electronic Design, Penang, Malaysia, 2008.
23. Paulraj M P, Hazry Desa, Hema C R, T Manigandan, Wan Mohd Ridzuan Bin Wan Ab Majid, "Features Extraction Based on Centroid and DCT For Sign Language Recognition", Proceedings of International Conference on Digital Factory, pp. 222-226, Coimbatore, India, 2008.

24. Paulraj M P, R Badlishah Ahmad, Hema C R, Fadzilah Hashim, T Manigandan, "Estimation Of Mobile Robot Orientation using Affine Moment Invariants", Proceedings of International Conference on Digital Factory, pp. 1566-1571, Coimbatore , India, 2008.
25. Paulraj M P, Mohd Shukry Abdul Majid, Sazali Yaacob, T Manigandan, R Pranesh Krishnan, "Classification of Articulation Position Using Neural Networks", Proceedings of International Conference on Digital Factory, pp. 1841-1844, Coimbatore , India, 2008.
26. Paulraj M P, Sazali Yaacob, M Hariharan, "Feature Extraction Based on Mel-scaled Wavelet Packet Transform for the Diagnosis of Voice Disorders", Proceedings of 4th Kuala Lumpur International Conference on Biomedical Engineering, pp. 790-793, Kuala Lumpur, Malaysia, 2008.
27. Paulraj M P, Mohd Shukry Abdul Majid, Sazali Yaacob, M Hariharan, Mohd Zubir Md Zin, "Identification of Motorbike Engine Faults using Critical Band Energy Spectrum of Engine Noise Signals", Proceedings of 2nd International Conference on Intelligent Systems and Control, Coimbatore, India, 2008.
28. Paulraj M P, Hazry Desa, Hema C R, M Hariharan, Wan Mohd Ridzuan Wan Ab Majid, "Sign Language into Voice Signal Conversion using Head and Hand Gestures", Proceedings of 2nd International Conference on Intelligent Systems and Control, Coimbatore, India, 2008.
29. Paulraj M P, Sazali Yaacob, Ahmad Nazri, S N Sivanandam, M Thagirarani, "Prediction of Psychoacoustic Parameters using Radial Basis Functions Neural Network", Proceedings of 2nd International Conference on Intelligent Systems and Control, Coimbatore, India, 2008.
30. Paulraj M P, Sazali Yaacob, S N Sivanandam, M Hariharan, "Supervised Neural Network Classifier for Voice Pathology", Proceedings of 2nd International Conference on Resource Utilization and Intelligent Systems, pp 524 -528, Perundurai, India, 2008.
31. Paulraj M P, Sazali Yaacob, Ahmad Nazri, S N Sivanandam, M Thagirarani, "Neural Network Models for Speech Intelligibility Assessment in University Classrooms", Proceedings of 2nd International Conference on Resource Utilization and Intelligent Systems, pp 518 -523, Perundurai, India, 2008.
32. Paulraj M P, Sazali Yaacob, S N Sivanandam, M Hariharan, "Automatic Detection of Voice Disorder using Self Loop Architecture in Back Propagation Network", Proceedings of 2nd International Conference on Signal Processing, Communications and Networking, pp.409-413, Chennai, India, 2008.
33. Paulraj M P, Sazali Yaacob, Shahrul Azmi M Y, "Vowel Classification Based on Frequency Response of Vocal Tract", Proceedings of the International Conference on Computer and Communication Engineering 2008, Kuala Lumpur, Malaysia, May 13-15, 2008

34. Paulraj M P, S Yaacob, S A Mohd Yusof, "Vowel Recognition Based on Frequency Ranges Determined by Bandwidth Approach", Proceedings of the International Conference on Audio, Language and Image Processing; pp.75-79, Shanghai, China, 7-9 July 2008.
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248. Paulraj M P, Hema C R, Sazali bin Yaacob, Mohd Shuhanaz bin Zanar Azalan and Rajkumar Palaniappan, "A Phoneme Based Sign Language Recognition System using 2D-Moments Feature and Elman Neural Network", Proceedings of Engineering Post Graduate Research Conference 2011, Coimbatore, India, pp. B6.5.1 – B6.5.5, 19-20 December 2011.
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250. Paulraj M P, Sazali bin Yaacob, Allan Melvin Andrew and Siti Marhainis, "Classification of Vehicle Noise Comfort Level Using Elman Neural Network", Proceedings of Engineering Post Graduate Research Conference 2011, Coimbatore, India, pp. B6.6.6 – B6.6.12, 19-20 December 2011.
251. Paulraj M P, Abdul Hamid bin Adom, Hema C R and Divakar Purushothaman, "Classification of EEG Based Colour Visualization Tasks", Proceedings of Engineering Post Graduate Research Conference 2011, Coimbatore, India, pp. B6.7.1 – B6.7.4, 19-20 December 2011.

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253. S N Sivanandam and Paulraj M P, "A Procedure for Stability Analysis of a Class of Neural Networks", Proceedings of Conference On Advances in Computing, pp. 71-76, Allied Publishers Ltd., Calicut, India, April 1998.
254. S N Sivanandam and Paulraj M P, "An Approach for Stabilization of a Class of Neural Networks", Proceedings of Conference On Advances in Computing, pp. 90-93, Allied Publishers Ltd., Calicut, India, April 1998.
255. S N Sivanandam and Paulraj M P, "Instability Analysis of a Certain Class of Neural Network Control Systems", Proceedings of National Seminar on Artificial Neural Networks and Cognitive Systems, pp.198-203, Cochin, India, September 1998.
256. S N Sivanandam and Paulraj M P, "An Approach for Stabilization of a Class of Bipolar Input-Output Neural Networks", Proceedings of National Systems Conference, pp.327-332, Kozhikode, India, 1998.
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258. V Duraiswamy, D Somasundareswari, Paulraj M P and S N Sivanandam, "An Approach for Condition Monitoring System", Proceedings of First National Conference on Energy Monitoring, pp. 73 – 76, Erode, India, January 2002.
259. S N Sivanandam, Paulraj M P and C V Subbulakshmi, "Simple Schemes for Character Recognition Using Discrete Hop field network", Proceedings of First National Conference on Electrical and Instrumentation Systems, pp.55-60, Coimbatore, India, March 2002.
260. S N Sivanandam, Paulraj M P, R Rajiv and S Shekhar Agrawal , "Impurity Level Determination in Petrol using Artificial Neural Network", Proceedings of First National Conference on Electrical and Instrumentation Systems, pp.139-143, Coimbatore, India, March 2002.
261. S N Sivanandam, S Palaniswami and Paulraj M P, "Design of Sub-Optimal Controller using Lower Order Models", Proceedings of First National Conference on Electrical and Instrumentation Systems, pp.236-242, Coimbatore, India, March 2002.
262. S N Sivanandam, Paulraj M P, P Latha and C Karthikeyan, "Certain Improvements in Back Propagation Procedure using Systole Activation Function", Proceedings of First National Conference on Electrical and Instrumentation Systems, pp.288-295, Coimbatore, India, March 2002.

263. S Shanmugasundaram, P K Jeyadev, Paulraj M P and V Venkat Ramanan, "Trajectory Planning of Gryphon Robot using Artificial Neural Network", Proceedings of First National Conference on Electrical and Instrumentation Systems, pp.310-314, Coimbatore, India, March 2002.
264. V Duraiswamy, D Somasundareswari, Paulraj M P and S N Sivanandam, "Design of Fuzzy System Fault Detector for Certain Engineering Application", Proceedings of First National Conference on Electrical and Instrumentation Systems, pp.315-319, Coimbatore, India, March 2002.
265. R Nagarajan, Sazali Yaacob, Paulraj M P, M Karthigayan, "A Neural Network Application for Inspecting the Marking of Symbols on Integrated Circuit Chips", Proceedings of The Seventh Triennial AESEAP Conference, pp.283-288, Kuala Lumpur, Malaysia, December 2003.
266. Sazali Yaacob, Paulraj M P, R Nagarajan, Mohd Kamel Wan Ibrahim, C Karthikeyan, "Modified Functional Link Neural Network Architecture for Pattern Classification" Proceedings of The Seventh Triennial AESEAP Conference, pp.289-294, Kuala Lumpur, Malaysia, December 2003.
267. R Nagarajan, Sazali Yaacob, Paulraj M P, Shamsudin Amin, Marzuki Khalid, Hema C. R, "Edge Detection of Occluded Objects for Bin Picking Applications", Proceedings of 3rd Seminar on Science and Technology, Kota Kinabalu, Malaysia, August 2004.
268. R Nagarajan, Sazali Yaacob, Paulraj M P, Shamsudin Amin, Marzuki Khalid, Hema C R, "Cepstrum Based Image Segmentation and Identification using Stereo Vision for Bin Packing Application", Proceedings of 3rd National Level Technical Symposium, pp.15-16, Selangor, Malaysia, December 2004.
269. R Nagarajan, Sazali Yaacob, Paulraj M P, Shamsudin Amin, Marzuki Khalid, Hema C R, "Segmentation and Distance Computation of Occluded Objects in Bin Picking Systems", Proceedings of Second National Conference on Intelligent Computing, Coimbatore, India, March 2005.
270. Hema C R, Sazali Yaacob, Abdul Hamid Adom, R Nagarajan, Paulraj M P, "Classification of EEG Mental Task Signals for a Brain Machine Interface", Proceedings of 3rd Colloquium On Signal Processing and its Applications, pp 129 -131, Melaka, Malaysia, 2007.
271. R Nagarajan, Paulraj M P, Sazali Yaacob, Zaridah Mat Zain, "Adaptive Prediction Fuzzy Logic Attitude Control", Proceedings of 4th Colloquium On Signal Processing and Its Applications, Melaka, Malaysia, 2008. ISBN: 978-983-4274
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273. Sazali Yaacob, Paulraj M P, S A Mohd Yusof, "New Representation of Formant Values for Improved Classification", Proceedings of National Conference on Applications and Design in Mechanical Engineering, Perlis, Malaysia, 2007.
274. Sazali Yaacob, Paulraj M P, S A Mohd Yusof, "Classification of Malaysian Spoken Vowels based on Autoregressive Vocal Tract Model", Proceedings of Conference on Noise, Vibration and Comfort, pp 106-115, Malaysia, 2007.
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276. Nagarajan R, Paulraj M P, Sazali Yaacob, Zaridah Mat Zain, Rosfariedzah Rusli, "Noise and disturbance Analysis on Single Axis Attitude Control of a Micro Satellite", Proceedings of Conference on Noise, Vibration and Comfort, pp 148-158, Malaysia, 2007.
277. Hema C R, Sazali Yaacob, Abdul Hamid, Paulraj M P, R Nagarajan, "Brain Machine Interface: A Rehabilitative Biomimetic Device for Patients with Neuro Disorders", Proceedings of 3rd Colloquium on Engineering Technology, Malaysia, 2007.
278. Fadzilah Hashim, Paulraj M P, R Badlishah Ahmad, Nordiana M Saaid, M Hariharan, "Accuracy Estimation of Mobile Robot Orientation using Two Cameras", Proceedings of Malaysian Technical Universities Conference on Engineering and Technology, Perlis, Malaysia, 2008.
279. Hema C R, Paulraj M P, Sazali Yaacob, Abdul Hamid, R Nagarajan, "Brain Machine Interface: A Comparison of Classification Performance using Neural Networks", Proceedings of Malaysian Technical Universities Conference on Engineering and Technology, pp. 462-465, Perlis, Malaysia, 2008.
280. Hema C R, Paulraj M P, Sazali Yaacob, Abdul Hamid, R Nagarajan, "Particle Swarm Neural Network Based Classification of EEG Mental Tasks", Proceedings of 4th Colloquium on Signal Processing and its Applications, pp. 347-350, Kuala Lumpur, Malaysia, 2008. [Received best paper Award].
281. Hema C R, Paulraj M P, Sazali Yaacob, Abdul Hamid Adom, R Nagarajan, D Maheswaran, R Jaii Ganes, "Domestic Solid Waste Sorting using Vision Sensor", Proceedings of 4th Colloquium on Signal Processing and its Applications, pp. 131-134, Kuala Lumpur, Malaysia, 2008.
282. R Nagarajan, Paulraj M P, Sazali Yaacob and Zaridah Mat Zain, "Y-Thompson Regulating Control using Adaptive And Predictive Fuzzy Logic for A Micro-Satellite", Proceedings of 5th Colloquium on Signal Processing and its Applications, pp. 23-28, Kuala Lumpur, Malaysia, 2009.
283. Hema C R, Paulraj M P, S Yaacob, Abdul Hamid Adom, R Nagarajan, "Brain Machine Interface: Motor Imagery Recognition with Different Signal Length Representations",

Proceedings of 5th Colloquium on Signal Processing and its Applications, pp.38-39, Kuala Lumpur, Malaysia, 2009.

284. Hema C R, Paulraj M P, S Yaacob, Abdul Hamid Adom, R Nagarajan, "Single Trial Motor Imagery Classification for a Four State Brain Machine Interface", Proceedings of 5th Colloquium on Signal Processing and its Applications, pp.40-42, Kuala Lumpur, Malaysia, 2009.
285. Hema C R, Paulraj M P, Sazali Yaacob, Abdul Hamid Adom, R Nagarajan, "Wheelchair Control by an EEG based Brain Machine Interface", Proceedings of the Engineering Postgraduate Conference [EPC 2009], July 18-19 2009.
286. R Pranesh Krishnan, Paulraj M P, Mohd Shukry Abdul Majid, Sazali Yaacob, "Statistical Time Energy based Damage Detection in Steel Plates using Artificial Neural Networks", Proceedings of the Engineering Postgraduate Conference [EPC 2009], pp.48, July 18-19 2009.
287. Mohd Saifizi Saidon, Hazry Desa, Paulraj M P, Mohd Sofian Mohammad Rosbi, "Developing of a Stable Target Trajectory Tracking Control for a Mobile Robot based on Vision System", Proceedings of the Engineering Postgraduate Conference [EPC 2009], July 18-19 2009.
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289. Muhyi Yaakop, Sazali Yaacob, Abdul Rahman Mohd Saad, Zaridah Mat Zain, Paulraj M P, M Hariharan, R Nagarajan, Warren Soh Kay, Ahmad Sabirin Arshad, "Development of Attitude Control System on RCM3400 Microcontroller", Proceedings of the Engineering Postgraduate Conference [EPC 2009], July 18-19 2009.
290. Zainab Nazar Khalil Wafi, R B Ahmad, Paulraj M P, "Wireless Cameras Network for Intelligent Traffic Surveillance System", Proceedings of the Engineering Postgraduate Conference [EPC 2009], July 18-19 2009.
291. Wan Mohd Ridzuan Wan Ab Majid, Paulraj M P, Sazali Yaacob, Hazry Desa, "Kod Tangan Bahasa Melayu (KTBM) Gesture Recognition System", Proceedings of the Engineering Postgraduate Conference [EPC 2009], July 18-19 2009.
292. M Hariharan, Paulraj M P, Sazali Yaacob, "Time-Domain Parameters and Systole Activated Neural Network for Vocal Fold Pathology", Proceedings of the Engineering Postgraduate Conference [EPC 2009], July 18-19 2009.
293. Sathees Kumar, Paulraj M P, Sazali Bin Yaacob, Ahamad Nazri, "Vowels Recognition Using Mel-Frequency Cepstral Coefficient", Proceedings of the Engineering Postgraduate Conference [EPC 2009], July 18-19 2009.
294. Norasmadi Abdul Rahim, Paulraj M P, Abdul Hamid Adom, Sathish Kumar Sundararaj, "Moving Vehicle Noise Classification using Backpropagation Algorithm", 6th International

Colloquium on Signal Processing & Its Applications [CSPA'2010], Malacca, Malaysia, 21-23 May 2010.

295. Hema C R, Paulraj M P, Sazali Yaacob, Abdul Hamid Adom, R Nagarajan, "Robot Chair Control using an Asynchronous Brain Machine Interface", 6th International Colloquium on Signal Processing & Its Applications [CSPA'2010], Malacca, Malaysia, 21-23 May 2010.
296. Saidatul A, Paulraj M P, Sazali bin Yaacob and Mohamad Nasir N F, "Automated System for Stress Evaluation Based on EEG Signal: A Prospective Review", Proceedings - IEEE 7th International Colloquium on Signal Processing and its Applications, CSPA-2011, Article no. 5759866, pp. 167-171, 14-16 March 2011.
297. Yusnita M A, Paulraj M P, Sazali bin Yaacob, Abu Bakar S, Saidatul A and Abdullah A N, "Phoneme-Based or Isolated-Word Modelling Speech Recognition System: An Overview" Proceedings - IEEE 7th International Colloquium on Signal Processing and its Applications, CSPA-2011, Article no. 5759892, pp. 304-309, 14-16 March 2011.
298. Mohammad Ridhwan Tamjis, Paulraj M P, Sazali bin Yaacob, Ahmad Nazri Abdullah and Heng Ronald Boon Whee, "Feature Based Classification for Classroom Speech Intelligibility Prediction", National Postgraduate Conference (NPC), Universiti Teknologi Petronas, Malaysia, 19-20 September 2011.

Sponsored Research

Project Title	Funding Agency	Amount Rs.	Duration
Design and Implementation of Office Automated Security System for Offices and Workplace	UMS STG	17,000	2003-2004
Design and Development of Active Noise Cancellation System using Neuro-Fuzzy Controllers	IRPA, Science Fund	80,000	2003-2005
Data Mining in Medical Applications	UMS STG	19,000	2003-2004
Sonic Perception for Blind People through Stereo Image to Stereo Sound Transformation	IRPA	216,000	2002-2005
Patient Lifting Robot for Nurse Assistance	IRPA	220,000	2003-2006
Development of a Telemedicine System for remote Areas in Sabah: Smart Tele Emergency Unit	IRPA	445,000	2003-2005
Fundamental Analysis of Voice and Hand Gestures for Developing an Effective Human Robot Interface to Control and Interact with	FRGS	13,500	2007-2008

Mobile Robots			
Study and Development of a Simple Cost-Effective Vision System to Avoid Child Fatalities for Reversing Vehicles	FRGS	34,000	2007-2008
Detecting Structural Steel Damage using Non-Destructive Vibration Testing	SCIENCE FUND	179,100	2007-2009
Fundamental Study on the Development of Tactile Sensory Aid for Hearing Impaired	FRGS	110,000	2007-2010
Fundamental Study on the Development of an Intelligent Hearing ability Level Assessment using Somoto-Sensory Stimuli	FRGS	76,000	2011-2013
A Fundamental Analysis on Brain EEG Signals related to Motor Tasks	UNIMAP Short Term Grant	20,000	2006-2007
A Fundamental Analysis on Electroencephalogram as a Brain Machine Interface to Rehabilitate Patients with Neurodegenerative Disease	FRGS	13,500	2007-2008
A Correlation of Visual Emotion and Brain Electrical Impulse Wave for Human Emotion Study	FRGS	60,000	2007-2008
Development of a 3 Degree of Freedom Lower Arm Intelligent Prosthesis for Rehabilitation of Amputees	FRGS	13,500	2007-2008
Brain Signature based Biometric Authentication System	FRGS	39,000	2007-2008
Study Of Feature Extraction Techniques for the Conversion of Manually Coded Malay Gesture Into Voice	FRGS	50,000	2007-2009
Acoustic Analysis and Classification of Pathological Voices	FRGS	60,000	2007-2009
Applications of Acoustic in Control of Automatic Pouring of Molten into Spin Casting Molding Machine	FRGS	40,000	2007-2009
An Investigative Study of a Thought Controlled Robot Assistive for the Physically Challenged	FRGS	151,000	2007-2010
Study of Feature Extraction Algorithms for	FRGS	60,000	2007-2010

Different Types of Malaysian English Pronunciation			
Study of English Language Pronunciation Quality Assessment System for Primary School	FRGS	24,000	2010-2012
Study of Composition and Structural Properties of Materials by Vibration Technique	FRGS	44,000	2010-2012
Study and Development of an Intelligent CMOS Aperture Control System for the Equilateral Satellite Orientation	FRGS	43,200	2010-2012
Fundamental Study and Development of Vehicle Noise Comfort Level Indicator using Artificial Neural Network	FRGS	40,000	2010-2012
Fundamental Studies and Development of an Intelligent Intravenous Therapy Monitoring System	FRGS	44,000	2010-2012
Prototyping an Intelligent Robot Chair for Neuromuscular Disorder Patients	PRGS	98,000	2013-2015
Memristor Based Silicone Brain-Enabling Instantaneous Artificial Neural Network Performing Pattern Recognition	PRGS	120,000	2013-2015
Design and Implementation of Office Automated Security System for Offices and Workplace	UMS STG	17,000	2003-2004
Design and Development of Active Noise Cancellation System using Neuro-Fuzzy Controllers	IRPA, Science Fund	80,000	2003-2005
Data Mining in Medical Applications	UMS STG	19,000	2003-2004
Sonic Perception for Blind People through Stereo Image to Stereo Sound Transformation	IRPA	216,000	2002-2005
Patient Lifting Robot for Nurse Assistance	IRPA	220,000	2003-2006
Development of a Telemedicine System for remote Areas in Sabah: Smart Tele Emergency Unit	IRPA	445,000	2003-2005

Consultancy

1. M/s. Astronautic Technology (M) Sdn. Bhd., Kuala Lumpur. Malaysia.
2. Fault Diagnosing System for Induction Motors, M/s. Associate Engineers, Madras, India.
3. Identification of Winding Defects in a Single Phase Induction Motor for M/s. Best Engineers, Coimbatore, India.
4. Software Development for the Attitude Control of Cubic Satellite, Astronautic Technology (M) Sdn Bhd. Malaysia.
5. Reverberation Time Measurement in the Multi-Purpose Hall, FELDA RIMBA Mas, Padang Besar. Perlis, Malaysia.
6. Developed Software Package for the Analysis and Design of Auto Gears for M/s. Shanthi Gears, Coimbatore, India.
7. Developed Software Package for Load Forecasting using Neural Networks for M/s. Tamil Nadu Electricity Board, Madras, India.
8. Developed Hardware and Software Package for Component Identification for M/s. Associate Engineers, Madras, India.
9. Developed Hardware and Software for Identification of Winding Defects in a Single Phase Induction Motor for M/s. Best Engineers, Coimbatore, India.
10. Developed Hardware and Software for Gesture Recognition for Robotic Applications.
11. Developed Hardware and Software for the Speed Control of DC Motors using Neuro-Fuzzy Implementation for M/s. Associate Engineer, Madras, India.
12. Developed Hardware and Software for the Identification of Adulterant in Commercial Petrol.
13. Developed Hardware and Software for the Missing Components in a Printed Circuit Board using Neural Networks for M/s. Texas Instruments, Malaysia.
14. Developed fuzzy logic based controller for Innosat Project, Astronautic Technology Sdn Bhd, Kuala Lumpur.

Conference:

11.1 Keynote and Plenary Talks Delivered

7. "Current Research Trends in Signal Processing", International Conference on Global Software Development, PSG College of Technology, Coimbatore, India, December 2007.
7. "Signal Processing Techniques and Artificial Neural Networks for Selected Open Problems", Second International Conference on Resource Utilization and Intelligent Systems, INCRUIS 2008, Kongu Engineering College, January 3 -5, 2008.
8. "Intelligent System for Real Time Applications", 2nd International Conference on Intelligent Systems and Control, Karpagam Engineering College, Coimbatore, India, February 2008.
9. "Acoustic Barriers towards Learning and Speech Intelligibility Prediction in University Classrooms", International Conference on Computational Intelligence, National Engineering College, December 13 – 17, 2008.

10. "Neural Networks for Pattern Recognition", International Conference on Signal Processing, Government College of Engineering, Salem, India, December 2008.
11. "Higher Education in UniMAP", Hindustan College of Engineering, Coimbatore, India, December 22, 2009.
12. "You and Your Research", Akshaya College of Engineering, Coimbatore, India, December 24, 2009.
13. "Real Time Intelligent Systems", Karpagam College of Engineering, Coimbatore, India, January 4, 2010.
14. "Writing Technical papers", Thesis Writing Workshop, UniMAP, February 17, 2010.
15. "Recent Research at UniMAP", Akshaya College of Engineering, Coimbatore, India, September 14, 2010.
16. "Artificial Neural Network Applications", Karpagam Institute of Technology, Coimbatore, India, September 16, 2010.
17. "Recent Trends in BMI", Karunya University, March 2011.
18. "Intelligent System for Real-Time Applications", Government College of Technology, Coimbatore, March 2011.
19. "Teaching Pedagogy-A workshop on Effective Teaching", Akshaya College of Engineering, Coimbatore, June 2011.
20. Invited Lecture- "Writing Technical Papers", Sri Ramakrishna Institute of Technology, Coimbatore, June 2011.
21. "Applications of Artificial Neural Networks", Karpagam Institute of Technology, Coimbatore, August 2011.
22. "Intelligent BMI Systems", Post Graduate Conference, Karpagam University, Coimbatore, December 2011.
23. "Neural Network Programming" Workshop conducted for AICoS Research Group, UniMAP on 11th Feb 2012
24. "Thesis Writing Guidelines", Centre of Graduate studies, UniMAP, Malaysia, 23 Feb 2012.
25. "Recent Progress towards Brain Machine Interfaces". Keynote address at Info Institute of Engineering, Coimbatore on 2 March 2012.
26. "MLP and its Applications", Workshop conducted at Karpagam University, Coimbatore on 3 March 2012
27. "BMI Research at UniMAP", Invited Talk at EASA College of Engineering, Coimbatore on 5th March 2012.

28. "Neural Networks and its Applications", Workshop conducted at PA College of Engineering and Technology, Coimbatore on 6th March 2012.
29. "Intelligent Brain Machine Interface" Keynote at PPG Institute of Technology, Coimbatore on 7th March 2012.
30. "Intelligent Signal Processing Techniques", Keynote at Karpagam College of Engineering, Coimbatore , 7th International Conference on Intelligent Systems and Control (ISCO 2013) on 5th January 2013.
31. "Recent Trends in BMI" Keynote at SASURIE College of Engineering and Technology, Vijayamangalam, First International Conference on Innovations in Communication, Information and Computing (ICICIC' 13) on 9th January 2013.
32. How to do a Research? Seminar at PSNA College of Engineering, Dindugul on 23rd February 2013.
33. Crash course on Electromagnetic field at Karpagam University, Coimbatore on 30th and 31st May 2013.
34. Neural Network Applications in Control Engineering, Short course conducted at PA college of Engineering and Technology, Pollachi on 9th August 2013.
35. International Advisory Committee Member, International Conference on Electrical Instrumentation and Communication Engineering Recent Trends and Recent Issues, Sri Krishna College of Technology, 2-3 January 2015.
36. Delivered a keynote on "Recent Trends in Human Perception Analysis for Advancement in BMI", International Conference on Electrical Instrumentation and Communication Engineering Recent Trends and Recent Issues, Sri Krishna College of Technology, 2-3 January 2015.
37. Delivered an inaugural address at 2nd Conference on Advanced Computing and Communication Systems-2015, Sri Easwar College of Engineering, Coimbatore, 5 January 2015.
38. Conducted a special lecture on "Thesis Writing Guideline by Chapters" Organized by Thesis Writing Workshop Tentative Programme, Universiti Malaysia Perlis Centre For Graduate Studies on 19/1/2015, Monday, DK1, UniMAP Main Campus Pauh Putra.
39. Jury for the EXSPO REKACIPTA 2014, Dewan Ilmu, UniMAP, 5th Feb 2015.
40. International Advisory Committee Member, International Conference on Electrical, Electronics and Computer Engineering-ICEECE 2015, Rathinam College of Engineering, Coimbatore, 11-12 March 2015.
41. International Advisory Committee Member, 2nd Int. Conference on Innovations in Information, Embedded and Communication Systems, Karpagam College of Engineering, Coimbatore, 19-20 March 2015.
42. Keynote delivered at, International Post Graduate Research Conference ENGGPOS-2015, Karpagam University , Coimbatore, 12th March 2015.
43. Session Chair at International Post Graduate Research Conference ENGGPOS-2015, Karpagam University , Coimbatore, 13th March 2015.

44. Invited Special Lecture on Intelligent Real time Systems to Electrical Engineering at CSI College of Engineering, Ketty, Ooty on 14th March 2015.
45. Invited Special Lecture on Artificial Intelligence and Applications at SSM Institute of Technology, Dindugal, 16th March 2015.
46. Invited Lecture on Intelligent Real time Systems to Computer Science and Engineering Association at Hindustan College of Engineering, Coimbatore on 18th March 2015.
47. Invited Special Lecture on Intelligent real time applications at SNS College of Engineering and Technology, Coimbarore 18th March 2015.
48. Invited Lecture on Neural Network and Applications to Electrical Engineering at Maharaja Institute of Technology, Arasur, Coimbatore on 19th March 2015.
49. Delivered a Keynote at International Conference on “Global Health Sciences For A Better Quality Of Life” at Christian University of Thailand, Bangkok on 20th August 2015.
50. Invited Lecture on Neural Networks at Karpagam University, Coimbatore on 3rd September 2015.

11.2 Organization of International Conferences

1. Chair-International Conference on Man-Machine Systems 2009, Penang, Malaysia, October 2009.
2. Co-chair Publications-International Conference on Man-Machine Systems 2006, Langkawi, Malaysia, 2006.
3. Co-chair Publications-International Conference on Artificial Intelligence in Engineering and Information Technology 2004, Kota Kinabalu, Sabah, Malaysia, 2004.
4. Organizing Secretary for The First National Conference on Electrical and Instrumentation Systems - March 2002 held at GCT Campus, Anna University, and Coimbatore, India.
5. Chair-International Conference on Man-Machine Systems 2012, Penang, Malaysia, February 2012.

12. Involvement with International Journals / Conferences Proceedings

12.1 Editor - Proceedings

1. Editor of the Proceedings of the First National Conference on Electrical and Instrumentation Systems, Government College of Technology, Anna University, Coimbatore, India, March 2002.

2. Associate Editor of the Proceedings of the Second International Conference on Artificial Intelligence in Engineering and Technology, Universiti Malaysia Sabah, Sabah, Malaysia, August 2004.

12.2 Reviewer - Journals

1. EURASIP – European Journal of Advances in Signal Processing, Europe.
2. WASET – World Academy of Science, Engineering and Technology, Open Access Journal.
3. InderScience - International Journal of Computer Science and Engineering, India.
4. InderScience – International Journal of Automation and Control, India.
5. International Journal of Biomedical Soft Computing and Human Sciences, Japan.
6. JCS - Karpagam Journal of Computer Science, India.
7. Journal of Engineering Research and Education, UniMAP, Malaysia.
8. UMS – Journal of Borneo Science.

12.3 Reviewer – Conferences

1. First National Conference on Modern Trends in Electrical and Instrumentation Systems, (NCIES) March 2002.
2. International Conference on Emerging Technologies in Intelligent System and Control, Coimbatore, 2005.
3. International Conference on Man Machine Systems (ICOMMS), Langkawi, Malaysia September 2006.
4. First International Conference on Resource Utilization and Intelligent Systems (INCRUIS), 2007.
5. Conference on Noise, Vibration and Comfort (NVC), Kuala Lumpur, Malaysia 2007.
6. International Conference on Applications and Design in Mechanical Engineering (ICADME), Perlis, Malaysia 2007.
7. Second International Conference on Intelligent Systems and Control (ISCO), Coimbatore, February 2008.
8. International Conference on Digital Factory (ICDF), Coimbatore, June 2008.

9. Second International Conference on Resource Utilization and Intelligent Systems (INCRUIS), January 2008.
10. Malaysian Technical Universities Conference on Engineering and Technology (MUCET), Kangar, Perlis, Malaysia, March 2008.
11. 4th International Colloquium on Signal Processing and its Applications (CSPA), Kuala Lumpur, Malaysia 2008.
12. International Conference on Electronic Design (ICED), Penang, Malaysia, December 2008.
13. 5th International Colloquium on Signal Processing and its Applications (CSPA), Kuala Lumpur, Malaysia, March 2009.
14. International Conference on Man Machine Systems (ICOMMS), Penang, Malaysia, October 2009.
15. International Conference on Man Machine Systems (ICOMMS), Penang, Malaysia, February 2012.
16. International Conference on Man Machine Systems (ICOMMS), Penang, Malaysia, February 2014.

13. Professional Memberships:

13.1 International Professional Bodies

1. Board of External Examiner, Anna University, Chennai, Tamilnadu, India.
2. Board of External Examiner, Bharathiar University, Coimbatore, Tamilnadu, India.
3. Board of External Examiner, National Institute of Technology, Trichy, Tamilnadu, India.
4. Board of External Examiner, Mother Teresa Women's University, Kodaikanal, Tamilnadu, India.
5. Board of External Examiner, Sathyabama University, Chennai, Tamilnadu, India.
6. Advisory Committee Member, Hindustan College of Engineering and Technology, Coimbatore, India.
7. Member of Systems Society of India, since August 1997.
8. Member of Institute of Engineers, India since October 1998.
9. Member of Indian Society for Technical Education since June 1985.
10. Member of Computer Society of India since December 2011.

13.2 Universiti Committees

1. School Post Graduate Committee Member, School of Mechatronics Engineering, Universiti Malaysia Perlis, Kangar, Perlis, Malaysia.

2. Student Faculty Advisor, Universiti Malaysia Perlis, Kangar, Perlis, Malaysia.
3. Student Faculty Advisor, Government College of Technology, Coimbatore, India.

EE Division Head, School of Mechatronic Engineering, Universiti Malaysia Perlis, Kangar, Perlis, Malaysia.

FDP

Workshops:

1. Short Term Course on Microsoft Products
2. Workshop on MATLAB
3. Short Term Course on Neural Networks and Applications
4. Short Term Course on Fuzzy Systems and Applications
5. Workshop on Genetic Algorithm
6. Crash Course on C Programming
7. Crash Course on Object Oriented Programming in C++
8. Crash Course on Visual Basic
9. Short Term Course on Oracle [Anna University]
10. Course on Advanced Control Systems

Awards and Recognitions Secured :

Professional Awards

1. Excellent Service Award, University Malaysia Sabah, 2003.
2. Dean's List for Excellent Service Award, University Malaysia Sabah, 2004.
3. "An Intelligent System for Engine Fault Detection", Anugerah Seri Gemilang UniMAP 2007.
4. "Child Care System: Avoid Accident to Children Behind Reversing Cars", Anugerah Seri Gemilang UniMAP 2007.
5. "An Intelligent Vehicle Fault Diagnosing System", Anugerah Seri Gemilang UniMAP 2007.
6. "Intelligent Sensor for Reversing Vehicles", Anugerah Seri Gemilang UniMAP 2007.
7. "An Expert System for Motorbike Engine Fault Diagnosis", Anugerah Seri Gemilang UniMAP 2008.

8. "An Intelligent Real Time System for Converting Sign Language into Voice", Anugerah Seri Gemilang UniMAP 2008.
9. "An Intelligent Sensor for Reversing Vehicles", Anugerah Seri Gemilang UniMAP 2008.
10. "An Intelligent Diagnosing System for Voice Disorder", Anugerah Seri Gemilang UniMAP 2008.
11. "An Intelligent Embedded System for Motorbike Fault Diagnosis", Anugerah Seri Gemilang UniMAP 2008.
12. "Intelligent Brain Interface for a Robot Chair", Anugerah Kecemerlangan Penyelidikan UniMAP 2009.
13. "Intelligent Diagnosing System for Voice Disorders", Anugerah Kecemerlangan Penyelidikan UniMAP 2009.
14. "Brain Controlled Rehabilitative Wheel Chair for People with Special Needs", Anugerah Seri Gemilang UniMAP 2009.
15. "Anugerah Pendidik Cemerlang", University Malaysia Perlis 2009.
16. "Intelligent Sign Language to Voice Communication System for Hearing Impaired", Anugerah Seri Gemilang UniMAP 2010.
17. "An Intelligent Biomodal Rehabilitative for the Voice and Movement Impaired using Brain Signals", Anugerah Seri Gemilang UniMAP 2010.
18. "An Intelligent Non Destructive Damage Detection System", Anugerah Seri Gemilang UniMAP 2010.
19. "Voiceless Voice: An Intelligent Communication System for Physically Retarded Communities", Anugerah Seri Gemilang UniMAP 2010.
20. "Intelligent Hand Gesture Movement Controlled Robot", Anugerah Seri Gemilang UniMAP 2010.
21. "Mobile Robot Controls using Brain Signal", Anugerah Seri Gemilang UniMAP 2010.
22. Best Paper Award, Hema C R, Paulraj M P, Sazali Yaacob, Abdul Hamid, R Nagarajan, "Particle Swarm Neural Network Based Classification Of EEG Mental Tasks", 4th International Colloquium on Signal Processing and its Applications (CSPA), 7–9 Mar 2008, pp 347 -350, Kuala Lumpur, Malaysia. 2008.
23. Intelligent Sign Language to Voice Communication System for Hearing Impaired, Anugerah Seri Gemilang UniMAP 2011.

24. An Intelligent Communication System for Neuromuscular Disorder Patients, Anugerah Seri Gemilang UniMAP 2011.
25. An Intelligent Communication System for Neuromuscular Disorder Patients, Anugerah Seri Gemilang UniMAP 2011.
26. Gold Medal, "A Bin Picking Assistive Device (BPAD) for Industrial Robots", UniMAP Ekspo 2006.
27. Silver Medal, "Noise Engine Based Vehicle Fault Diagnosing System", UniMAP Ekspo 2006.
28. Silver Medal, "Child Care System: Avoid Accident to Children Behind Reversing Cars", UniMAP Ekspo 2006.
29. Gold Medal, "An Intelligent Vehicle Fault Diagnosing System", ITEX 2007.
30. Gold Medal, "Intelligent Sensor for Reversing Vehicles", Pecipta 2007. Bronze Medal, "An Intelligent Embedded System for Motorbike Fault Diagnosis", Rekacipta 2007.
31. Bronze Medal, "Child Care System: Avoid Accident to Children Behind Reversing Cars", ITEX 2007.
32. Bronze Medal, "An Intelligent System for Engine Fault Detection", Pecipta 2007.
33. Bronze Medal, "An Intelligent Real Time System for Converting Sign Language into Voice", Rekacipta 2007.
34. Bronze Medal, "An Intelligent System for Speech Intelligibility Measurement", Rekacipta 2007.
35. Bronze Medal, "Intelligent Household Waste Paper and Plastic Sorting System", Rekacipta 2007.
36. Bronze Medal, "Intelligent Diagnosing System for Voice Disorders", Rekacipta 2007.
37. Gold Medal, "Intelligent Sensor for Reversing Vehicles", Brussels Eureka 2008.
38. Gold Medal, "Intelligent Diagnosis System for Voice Disorders", ITEX 2008.
39. Gold Medal, "Thought Controlled Rehabilitative Wheels for People with Special Needs", Rekacipta 2008.
40. Silver Medal, "An Intelligent Engine Fault Diagnosing System", Brussels Eureka 2008.
41. Silver Medal, "An Intelligent Embedded System for Motorbike Fault Diagnosis", MTE 2008.

42. Bronze Medal, "An Intelligent Real Time System for Converting Sign Language into Voice", MTE 2008.
43. Silver Medal, "An Intelligent System for Voice Disorders", Geneva 2009.
44. Silver Medal, "Brain Controlled Rehabilitative Wheelchair for People with Special Needs", ITEX 2009.
45. Gold Medal, "Intelligent Brain Interface for a Robot Chair", Pecipta 2009.
46. Gold Medal, "An Intelligent Gesture to Voice Communication System for the Hearing Impaired", Rekacipta 2009.
47. Gold Medal, "Voiceless Voice: An Intelligent Communication System for Physically Retarded Communities", Rekacipta 2009.
48. Gold Medal, "An Intelligent Non Destructive Damage Detection System", Rekacipta 2009.
49. Gold Medal, "A Biometric Authentication System using Brain Signature", Rekacipta 2009.
50. Gold Medal, "Bimodal Rehabilitation for the Voice and Movement Impaired using Brain Signals", Rekacipta 2009.
51. Bronze Medal, "An Intelligent Biomodal Rehabilitative for the Voice and Movement Impaired using Brain Signals", MTE 2010.
52. Bronze Medal, "An Intelligent Non Destructive Damage Detection System", MTE 2010.
53. Silver Medal, "Voiceless Voice: An Intelligent Communication System for Physically Retarded Communities", MTE 2010.
54. Bronze Medal, "Intelligent Hand Gesture Movement Controlled Robot", ENVEX 2010.
55. Bronze Medal, "Mobile Robot Controls using Brain Signal", ENVEX 2010.
56. Gold Medal, "Intelligent Sign Language to Voice Communication System for Hearing Impaired", ITEX 2010.
57. Most Innovative Design, Gold Medal, "Motor Bike Fault Diagnosing System using Neural Networks", USM-MOTOROLO Design Competition 2007.
58. Silver Medal, "Intelligent Sign Language to Voice Communication System for Hearing Impaired", Geneva 2011.
59. Silver Medal, "An Intelligent Communication System for Neuromuscular Disorder Patients", Rekacipta 2011.

60. Bronze Medal, "An Intelligent Communication System for Neuromuscular Disorder Patients", PECIPTA 2011.
61. Gold Medal, "An Intelligent Thought Controlled Communication System for Differentially Enabled Communities", Rekacipta 2012.
62. Silver Medal, "An Intelligent Thought Controlled Communication System for Differentially Enabled Communities", PECIPTA 2013.
63. Gold Medal, "An Intelligent Robot Chair with Communication Aid for Neuromuscular disorder patients (IRCC)", Rekacipta 2014, 5th Feb 2015.
64. Silver Medal, "An Intelligent Hearing Ability Level Assessment System, Rekacipta 2014, 5th Feb 2015.
65. Gold Medal, "An Intelligent Robot Chair with Communication Aid for Neuromuscular disorder patients (IRCC)", ITEX 2015.
66. Silver Medal, "Silver Medal for the product "An Intelligent Non-Destructive Glass Fibre/Matrix Volume Fraction Determination System", Rekacipta 2014, 5th Feb 2015.
67. Dr.Paulraj, Dr.K.Sheela Sobana Rani, Ms. K.M.Kirthika, Mr R.Immanual and Ms.V.R.Meenachi won Double Gold award for invention titled "An Automatic Temperature Controlling System for Optimal Sericulture and Mobile Mulberry Hiring Centre" exhibited at International Engineering Invention and Innovation Exhibition (I- ENVEX) 2018 conducted by University of Malaysia Perlis on 13.04.2018 - 15.04.2018 at Malaysia.
68. Dr.Paulraj, Dr.K.Sheela Sobana Rani, Ms. K.M.Kirthika, Mr R.Immanual and Ms.V.R.Meenachi won Special award for invention titled "An Automatic Temperature Controlling System for Optimal Sericulture and Mobile Mulberry Hiring Centre" exhibited at International Engineering Invention and Innovation Exhibition (I-ENVEX) 2018 given by Nortan University conducted by University of Malaysia Perlis on 13.04.2018 - 15.04.2018 at Malaysia.
69. Dr.Paulraj, Dr.K.Sheela Sobana Rani, Ms. K.M.Kirthika, Mr R.Immanual and Ms.V.R.Meenachi won Gold Award for Invention entitled, "An Automatic Temperature Controlling System for Optimal Sericulture and Mobile Mulberry Hiring System" exhibited at World Invention Creativity Olympic (WICO) 2018 on 4.08.18 at Seoul, Korea.
70. Mr.R.Immanual, Dr.K.Sheela Sobana Rani, Ms.K.M.Kirthika, Ms.J.Sathya, Ms.R.Sathishkumar won Silver Award for the invention titled "Creation of voice over ppt using Python exhibited at World Invention Creativity Olympic (WICO) 2018 given by Norton University on 08.07.21 - 10.07.21 at Seoul, Korea.
71. Dr.Paulraj, Dr.K.Sheela Sobana Rani, Ms. K.M.Kirthika, Mr R.Immanual and Ms.V.R.Meenachi won Double Gold award for invention titled "An Automatic Temperature Controlling System for Optimal Sericulture and Mobile Mulberry Hiring Centre" exhibited at

International Engineering Invention and Innovation Exhibition (I- ENVEX) 2018 conducted by University of Malaysia Perlis on 13.04.2018 - 15.04.2018 at Malaysia.

72. Dr.Paulraj, Dr.K.Sheela Sobana Rani, Ms. K.M.Kirthika, Mr R.Immanual and Ms.V.R.Meenachi won Special award for invention titled “An Automatic Temperature Controlling System for Optimal Sericulture and Mobile Mulberry Hiring Centre” exhibited at International Engineering Invention and Innovation Exhibition (I- ENVEX) 2018 given by Nortan University conducted by University of Malaysia Perlis on 13.04.2018 - 15.04.2018 at Malaysia.
73. Dr.Paulraj, Dr.K.Sheela Sobana Rani, Ms. K.M.Kirthika, Mr R.Immanual and Ms.V.R.Meenachi won Gold Award for Invention entitled, “An Automatic Temperature Controlling System for Optimal Sericulture and Mobile Mulberry Hiring System” exhibited at World Invention Creativity Olympic (WICO) 2018 on 02.08.18 - 4.08.18 at Seoul, Korea.
74. Dr.Paulraj, Dr.K.Sheela Sobana Rani, Ms. K.M.Kirthika, Mr R.Immanual and Ms.V.R.Meenachi won Special Award for Invention entitled, “An Automatic Temperature Controlling System for Optimal Sericulture and Mobile Mulberry Hiring System” exhibited at World Invention Creativity Olympic (WICO) 2018 given by Norton University on 02.08.18 - 4.08.18 at Seoul, Korea.
75. Dr.C.R.Hema , Ms. K.M.Kirthika, Mr R.Immanual,Mr.Ravinder Kumar N,Mr.Monish S, Mr Rakhul.R won Silver Award and Special Award for invention entitled, “Automatic Fishing boat”exhibited at i2create 2019,Kualalumpur Malaysia.
76. Dr.C.R.Hema,Ms. K.M.Kirthika,Ms Meenachi VR, Mr R.Immanual,Mr Silamarasan,Mr.Kirubakaran.S won Gold Award and Excellent Award for invention entitled, “Mehndi(inai)Applier Machine”exhibited at i2create 2019,Kualalumpur Malaysia.
77. Dr.Paulraj, Dr.K.Sheela Sobana Rani, Ms. K.M.Kirthika, Mr R.Immanual,Mr Hariharan A,Mr Deepak Antony .JV, won Silver Award and WIPPA Special Award for invention entitled, “Paper bag Machine”exhibited at i2create 2019,Kualalumpur Malaysia.
78. Won Silver Award for the invention titled “Creation of voice over ppt using Python”; exhibited at World Invention Creativity Olympic (WICO) 2018 given by Norton University on 08.07.21 - 10.07.21 at Seoul, Korea.
79. Won Gold Award for the invention titled Smart Home System to monitor online classes of young children for working parents exhibited at I2create 2021 held on 16.09.2021.

Self-appraisal

Major Strengths

- 1. Visionary Leadership**
- 2. Effective Communication Skills**
- 3. Problem-Solving and Decision-Making**

Signature