**PROFILE**


**Name** : **B.SANKARAGOMATHI**

**Mobile No.** : **9442112242**

**email Id.** : **bsgeie@nec.edu.in**


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|---|---|
| Qualification | ***B.Sc., B.Tech., M.Tech., Ph.D*** |
| Specialization | B.Sc-Applied Sciences, B.Tech-Electronics, M.Tech-Instrumentation and Control Systems,Ph.D.-Image Processing |
| Designation | Professor |
| Date of Joining the Institution | 20/07/1987 |
| Teaching Experience | 31 years 7 months |

## Qualification:

| Degree | Programme & Specialisation | Class / CGPA | Month & Year of Passing | Institute/University |
|---|---|---|---|---|
| **B.Sc.** | Applied Sciences | I | April, 1984 | Thiagarajar College of Engineering, Madurai Kamaraj University, Madurai. |
| **B.Tech.** | Electronics | I | April 1987 | Madras Institute of Technology, Anna University, Chennai |
| **M.Tech.** | Instrumentation & Control Systems | First class with Honors | Dec 1994 | Calicut Regional Engg.College, Calicut University |
| **Ph.D.** | Digital Image Processing | 14th June 2010 | | Manonmaniam Sundaranar University, Tirunelveli |
| **`D.Litt.** | 16th December 2016 | | | University of South America |

**Experience** **: 30** Years

| Designation | Institution/ Organisation | Period |
|---|---|---|
| Associate Lecturer | **National Engineering College** | 20.07.1987 – 31.05.1989 |
| Lecturer | | 01.06.1989 – 30.06.1996 |
| Senior Lecturer | | 01.07.1996 – 31.05.1999 |
| Assistant Professor | | 01.06.1999 – 31.05.2007 |
| Associate Professor | | 01.06.2007 –31.05.2009 |
| Professor | | 01.06.2009 –30.06. 2010 |
| Prof. & Dean(Academic) | | 01.07.2010 – 28.05.2015 |
| Professor & Head | | 29.05.2015 – 01.07.2018 |
| Professor | | 02.07.2018 – till now |

| Consultancy Work Undertaken | | | | |
|---|---|---|---|---|
| **S.No.** | **Title of the Project and Funding Organization** | **Duration with Years** | **Amount Sanctioned** | **Responsibility** |
| 1. | Non Invasive Medical Diagnozer-MSME | 2 years | 5,50,000 | Mentor |
| 2. | Electric Oil Extracting Home Appliance- Submitted the project proposal to MSME on 25/07/2018 | 2 years | Not selected | Mentor |

**Research Projects**

| S.No. | Name of Project | Funding Agency | Fund Received | Date of commencement | Date of Completion |
|---|---|---|---|---|---|
| 1. | Automatic Spark Control Unit for A Radio Frequency Surgery Device | Tamil Nadu State Council for Science & Technology | Rs. 5,000/- | Jan 2001 | May 2001 |
| 2. | Remote control of Process parameters using Embedded System | Institution of Engineers (India) | - | Feb 2005 | Dec 2005 |
| 3. | Computerized Pharmaceutical Management System | Institution of Engineers (India) | - | Feb 2008 | Dec 2008 |
| 4. | GSM based Home Security systems | Institution of Engineers (India) | - | Feb 2009 | Dec 2009 |

**Sponsored project**

**Proposal submitted to DBT-BIRAC-PACE to get 40 Lakhs for the project titled "Development of Automated System Using Unmanned Air Vehicle(UAV) and Internet of Things(IoT) for Plant Disease Diagnosis. Called for presentation on 29.01.2018 and awaiting for the result.**

**Research Guidance:**

**Recognized Supervisor under Anna University Chennai**

**Supervisor Recognition Number: 2730004**

| S. No. | Name of the Student | Title | Department | Date of commencementa nd current status |
|---|---|---|---|---|
| 1. | **Mrs. J.Leema Rose,** AP/EEE , Annai Valankanni College of Engg, Potalkulam, K.K.Dist. | Adaptive Tuning for Digitally controlled Dc-Dc converter | Faculty of Electrical Engineering | 21.01.2011 going to submit thesis |
| 2. | **Mr.A.Anto Spirtus Kingsly, AP/ECE** Udaya School of Engg., Vellamodi, K.K.Dist | Particle Swarm Optimization for Automatic Diagnosis of Malignant Melenomain Dermoscopy Images | Faculty of Information & Communication Engineering | 21.01.2011 Submitted thesis on 28th June 2018 |

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|---|---|---|---|---|
| 3. | **Mr. T. Ramakrishnan, SL/EIE,** National Engineering College, Kovilpatti | A Professional estimate on the Analysis of Biomedical Images to Improve Tissue Classification Accuracy | Faculty of Information & Communication Engineering | 15.02.2011<br>reports received, viva is to be held shortly |
| 4. | **Mr.Peter Devadoss, AP/ECE,** Univ. VOC College of Engg. Tuticorin | Medical Image compression for Telemedicine system using Wavelet & Fractal Techniques | Faculty of Information & Communication Engineering | 15.02.2011<br>Submitted synopsis on 11th June 2018 |
| 5. | **Mr.V. Rajagopal, Prof.&Head/ECE,** M.E.T Engineering College, Chenbagaramanputhoor Post, K.K.Dist. | An Intelligent Framework for moving objects detection in Video Surveillance | Faculty of Information & Communication Engineering | 15.02.2011<br>Submitted synopsis on 30th June 2018 |
| 6. | **Mrs.V.Sheeja Kumari, SL/CSE,** Raja College of Engg and Technology, Vadakankulam | Intelligent Techniques in Image Processing to extract images for improving Diagnostic accuracy | Faculty of Information & Communication Engineering | 15.02.2011<br>Completed on 29th Jan 2018 |
| 7. | **Mr. Edwin Dhas, SL/CSE**<br>Jayaraj Annapackium college of Engg, Nazerath | Semi-supervised Data Expression analysis in Bio-informatics | Faculty of Information & Communication Engineering | 15.02.2011<br>Submitted synopsis on 28th June 2018 |
| 8. | **Mrs.M.Antony Freeda Rani, AP/EEE**<br>Udaya School of Engg.,<br>Vellamodi, K.K.Dist | AI Technique based Alternative Control Strategies of water evaporative coding systems on Energy efficiency and Plume Control | Faculty of<br>Electrical Engineering | 29.01.2009<br>Completed on 17th April 2017 |
| 9. | **Jasmine J.C Sheeja, AP(SG)/ECE,** JCT College of Engineering, Pichanur | Dereverberation of Speech processing by adaptive Equalization System | Faculty of Information & Communication Engineering | 15.02.2011<br>Synopsis submitted on 19th June 2018 |
| 10. | **J. Uma Devi, AP/IT,** The Rajaas Engineering College, adakkangulam | Human Face Detection based on Neuro Fuzzy Logic Chromatic Rules | Faculty of Information & Communication Engineering | 22.07.2011<br>Discontinued |
| 11. | **A.Sundar , System Programmer,** Kalasalingam University Krishnankovil | Cloud Computing | System Programmer | 05.07.2013 |
| 12. | **G.A.PethuNachiyar, AP / MCA,** Kalasalingam University Krishnankovil | Cross Layer Optimisation Technologies | Faculty of Master of Computer Applications | 16.08.2013 |
| 13. | **Ms.K.R. Kanagavalli** AP / CSE, Government Arts & Science College, Sivakasi | Mobile Ad-Hoc Network | Faculty of Computer Science | 20.12.2013<br>Synopsis submitted on 23rd June 2018 |

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|---|---|---|---|---|
| 14. | **Mr.S. Senthil Kumar** Technical Consultant Hewlett Packward No.39/40, HP Avenue Bangalore | Data Mining | Technical Consultant | 08.05.2014 |
| 15 | **Mr.S.Sivasurya Narayanan,** Assistant Professor, Dept. of Electronics and Instrumentation Engineering, National Engg College, K.R.Nagar. Kovilpatti | Design of Compensators using soft computing techniques | Faculty of Electrical Engineering | June 2017<br>Course work completed |

**Books / Monographs**

| S. No | Title of the Book | Name of the Publishers |
|---|---|---|
| 1 | Process Control Principles and Applications | J. J. Publishers |
| 2 | Signal Processing and Networks | -Do- |
| 3 | Lab Manual for Electronic Circuits | Kept in the dept for students reference |
| 4 | All Workshop/Seminar Materials | Kept in the Department Library |
| 5. | Conference/Symposium Proceedings | Kept in the Department Library |

**Journal Publications: (H-Index -5)**

| S. No | Title of the Paper | Name of the Journal and Place | Volume, Number & Page numbers | Month & Year |
|---|---|---|---|---|
| 1 | Encoding Video Sequences in Fractal based image compression | Fractals, Singapure | Vol.15, No.4, pp.365-378 IF:1.54 | 6 December 2007 |
| 2 | Architecture proposed for new method of Partitioning High speed Fractal Image compression | International Journal of Engineering and Applied Sciences, Pakisthan | Vol. 2, No.3, pp. 556-564 | January 2006 |
| 3 | A practical approach to colour imaging compression using partitioned iterated function system | International Journal of AMSE, France | Vol.50, No.1&2, pp.1-17 | October 2007 |
| 4 | Performance of applying Fractal Coding on audio data | Int. J. Signal and Imaging Systems Engineering indexed by Scopus | Vol. 1, No. ¾ pp.238-244 I.F.0.40 | September 2008 |
| 5 | Use of wavelets in fractal compression algorithm for enhanced performance | International Journal of Information Systems for Logistics and Management | Vol.6, No.1 Pp:73-80 | 4 2010 |
| 6 | Automatic fast Video object deduction and tracking on video | ICTACT Journal on Image and Video | Vol. 3, No.1, | 4 August |

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|---|---|---|---|---|
| | surveillance system | Processing | pp. 479-484<br>IF0.786 | 2012 |
| 7 | Healthy and Pathological Tissues Classification in MRI Brain Images using Hybrid Genetic Algorithm - Neural Network (HGANN) Approach | European Journal of Scientific Research | Vol.87, No.2, pp.212-226<br>IF: 0.63 | 5 September 2012 |
| 8 | Auto-tuning of PID Controller for PMDC Motor Drives using Genetic Algorithm | European Journal of Scientific Research | Vol.95, No.4, pp.469-474<br>IF: 0.63 | January 2013 |
| 9 | An effective Color face recognition based on best color feature selection algorithm using weighted features Fusion System | International Journal of Computers and Technology | Vol.8, No.2,<br>pp.787 – 795<br>IF: 0.63 | June 2013 |
| 10 | Strategic Comparison Of PMDC Drive Performance Based on Conventional And Genetic Algorithm Based Tuning Of PID | International Journal of Engineering Research & Technology (IJERT) | Vol. 2 Issue 7, pp.310 – 322<br>IF: 0.63 | July 2013 |
| 11 | A Bluetooth Mobile Ad Hoc Network Communication Topologies | Journal of Global Research in Computer Science | Volume 5, No. 1, pp.12-15 | 1<br>January 2014 |
| 12 | Efficient medical image compression using wavelet networks. | International Journal of Applied Engineering Research | Vol.10, No.20 pp:18353-18356 | 2015 |
| 13 | MRI Brain Images Healthy and Pathological Tissues Classification with the Aid of Improved Particle Swarm Optimization and Neural Network | Hindawi Publishing Corporation,<br>Computational and Mathematical Methods in Medicine | Vol. 86 Article ID 807826, I.F. 1.081 | 2015 |
| 14 | Tuning of conventional PI controller and Fuzzy Logic Controller with Permanent magnet Brushless DC motor drive | Journal of Convergence Information Technology (ISSN: 1975-9320),South Korea | Thomson Routers Master Journal list 0.831(Annexure-II) | 2015 |
| 15 | Performance Enhancement of PID controllers by Modern optimization Techniques for speed control of PMBL DC motor | Research Journal of Applied Sciences, Engineering and Technology, Maxwell scientific publications United kingdom | 0.501 | 2015 |
| 16 | PMBLDC Drive Performance Based On Closed Loop And Open Loop Speed Control Tuning Of Pi Controller | International Journal of Applied Engineering Research | Vol.9, No.24, pp. 28619-28630, I.F.2.7078 | Jan 2014 |

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|---|---|---|---|---|
| 17 | An optimized blind source separation and deverberation collaboration in speech mixtures | International Journal of Applied Engineering Research | 2.7078 | 2015 |
| 18 | Analysis and Comparison of Digital Nonlinear Controllers for Cuk Converter | International Journal of Applied Engineering Research(ISSN 0973 4562) | Vol.10,No.2,pp.1862-867 I.F. 2.7078 | 2015 |
| 19 | Automatic Segmentation of Brain Tumors in CT Images using LIPC | International Journal of Applied Engineering Research (IJAER) | Vol.10,No.20 pp.15478 - 15483 | 2015 |
| 20 | Brain tumor detection from MRI images using histon based segmentation and modified neural network. | Biomedical Research-India An International Journal of Medical Sciences | Special issue s1-s9 I.F. 0.236 | April 2016 |
| 21 | Region of Interest Based MRI Brain Image Compression using Peano Space Filling Curve | Current Signal Transduction Therapy, Hungary | Vol.11,No.2DOI: 10.2174/1574362411666160616124516,pp.114-120 I.F. .452 | June 2016 |
| 22 | A Professional Analysis and Evaluation of Computed Tomography Brain Tumor Images using SDNN for Segmentation and SOM-LS-SVM for Classification | Journal of Medical Imaging and Health Informatics Amer Scientific Publishers, USA | Vol.6 pp.1426-1429, I.F 0.877 | Aug 2016 |
| 23 | Design, Modeling, Analysis and Simulation of a SEPIC Converter | Middle-East Journal of Scientific Research | Vol.24, No.7 pp: 2302-2308 ISSN 1990-9233, I.F.0.38 | 3 July 2016 |
| 24 | Diagnosis of Malignant Melanoma Using SVM and CVM Classifiers | International Journal of Printing, Packaging & Allied Sciences | Vol. 4, No. 5 pp.4190-4200 | December 2016 |
| 25 | Dereverberation of speech signal for the blind using ICA algorithm | Journal of advances in chemistry | Vol.13, No.3 pp.6045-6053 | January 2017 |
| 26 | Efficient implementation for classifying and segmenting of computed tomography brain tumor images using modified region growing with lion algorithm | Int. J. of Biomedical Engineering and Technology | Vol.23, No.2/3/4 pp.159 – 179 IF 0.6 | March 2017 |
| 27 | A professional estimate on the Computed Tomography Brain Tumor Images using SVM-SMO for classification and MRG-GWO for segmentation | Pattern Recognition Letters | Vol. 94 pp.163-171 I.F.1.995 | July 2017 |
| 28 | Assorted Carrier-Variable Frequency-Random PWM Scheme for Voltage Source Inverter | IET Power Electronics | Vol.10,No.4, pp.1993 – 2001,I.F. 3.547 | November 2017 |

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|---|---|---|---|---|
| 29 | Background normalization and texture pattern-based video segmentation for visual tracking | International research journal of pharmacy | Vol.8, No.11<br>pp.184-195,<br>ISSN 2230 – 8407,<br>I.F.0.751 | December 2017 |
| 30 | Design and Implementation of Model Predictive Controller for Digitally Controlled Cuk Converters | Journal of Computational and Theoretical Nanoscience | Vol.15, No.1<br>pp. 99-105<br>I.F.1.42 | January 2018 |
| 31 | Performance Analysis of Machine Learning Based Classifiers for the Diagnosis of Melanoma Cancer and Comparison | Journal of Computational and Theoretical Nanoscience | Vol. 15, No.2<br>pp. 558-575<br>I.F.1.42 | February 2018 |
| 32 | Self Optimized Bridge Scheduling for Bluetooth Scatternet | International Journal of Pure and Applied Mathematics(ISSN-1314-3395) | Vol. 119 No. 12 pp.13625-13630<br>I.F.0.29 | August 2018 |
| 33 | Relay Based Performance Metrics of Bluetooth Scatternet Scheduling | Indonesian Journal of Electrical Engineering and Computer Science ISSN: 2502-4752 | Vol.11,No. 2, pp. 469-474<br>I.F. 0.26 | August 2018 |
| 34 | Near lossless medical image compression using block BWT-MTF and hybrid Fractal compression techniques | Cluster computing<br>(Springer) | ISSN 1386-7857<br>I.F.2.04 | Jan 2018 |
| 35 | Comparison of Buck-Boost and Cuk Converters based on time domain response | Journal of Circuits, Systems, and Computers(World Scientific) | Vol.27, No.14<br>I.F. 0.481 | December 2018 |
| 36 | An enhanced Heuristic Threso vector machine based classification system for object tracking and detection, V.Rajagopal, B.Sankaragomathi | IET Image Processing | submitted for publication after the reviewers comments<br>I.F.1.401 | Jan2019 |
| 37 | Analysis of OSA Syndrome from PPG Signal using CART-PSO Classifier with Time Domain and Frequency Domain Features, N Kins Burk Sunil, R Ganesan, B Sankaragomathi | Computer Modeling In Engineering & Sciences | CMES, vol.118, no.2, pp.351-375, 2019<br>I.F.0.581 | February 2019 |

**International / National Conferences attended and presented:**

| Title of the Paper | Title of the Conference | Organizer | Citation Month & Year |
|---|---|---|---|
| Design of Linear Phase FIR Digital Filters of finite word length | National Symposium on Advances in Computer Applications & Instrumentation | Indira Gandhi Centre for Atomic Research, Kalpakkam. | 4-6 Jan 1995 |
| A Practical approach to Fractal Based Color Image Compression | First National Conference on Document Analysis & Recognition NCDAR'01 | PES College of Engineering, Mandya | 12-14 July 2001 |
| Color Image Compression using Partitioned Iterated Function Systems | National Conference on Systems, Security NCSSS-2002 | PSG College of Technology, Coimbatore | 1-2 March 2002 |
| Fuzzy Tuning PID Controller | Second National conference on Document Analysis and Recognition | PES College of Engineering, Mandya | 12-13 July 2003 |
| Genetic Algorithm based Partitioned Iterative Function System: A new tool for Fractal Image Compression | Second National conference on Document Analysis and Recognition | PES College of Engineering, Mandya | 12-13 July 2003 |
| Fractal Based Color Image Compression using Partitioned Iterated Function Systems | 2nd FAE International Symposium | European Univ. of Lefke Turkey | 6-8 Nov 2002 |
| Color Image Compression using Wavelet Transform | 2nd FAE International Symposium | European Univ. of Lefke Turkey | 6-8 Nov 2002 |
| Fractal Based Wavelet analysis of Image compression | 3rd FAE International Symposium | European University Of Lefke | Sept 2004 |
| Fractal Coding and its applications in satellite image compression | 3rd FAE International Symposium | European University of Lefke | Sept 2004 |
| Wireless Sensor technologies on Automation System for distributed Measurement and Control | National Symposium on Instrumentation (NSI - 30) | Instrument Society of India, Cochin | 30th Nov-2nd Dec 2005 |
| Remote Control of Process parameters using embedded Technology | Second Control Instrumentation System Conference (CISCON'05) | Manipal Institute of Technolgy, Manipal | 11-12th Nov 2005. |
| Fractal based image compression applied to remote sensing | 4th International Conference on Computer Science '07 thro WASET | Vienna, Austria | 7<br>25-27th May 2007 |
| Texture Image compression using Fractal and wavelet theory | 7th International Conference on Computational Intelligence & Multimedia Applications 2007 thro' IEEE Computer Society | Mepco Schlenk Engineering College, Sivakasi | 5th -13th Dec 2007 |
| Global quality Assurance focusing on the Washington | International Conference on Accreditation in coordination | Breeze Hotel, | 18th – 19th |

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| Accord and the ABET processes | with ISTE | Chennai | May 2011 |
| An intelligent address stamping and posting protocol for DNS | IEEE International conference on Signal Processing, Communication, Computing and Networking Technologies | Noorul Islam University, Thuckalay | 21st – 22nd July 2011 |
| Women Entrepreneurship:<br>Problems and Constraints | International conference on Empowering Women Through Higher Education - ICEW'11 | Dev Raj Auditorium,<br>KMV Jalandhar | 20th - 21st Oct 2011 |
| A Hybrid algorithm for Video object tracking and its application | International conference on Science and Innovation Engineering | Chennai | May 2012 |
| Segmentation and location of abnormality in brain MR images using distributed estimation | International Conference on Emerging Trends in VLSI, Embedded System, Nano Electronics and Telecommunication System, ICEVENT 2013 | Tiruvannamalai | 7 – 9 January 2013 |
| A Novel Approach for the Classification of Brain Computed Tomography Images | International conference on Intelligent and Efficient Control Systems | Coimbatore | 12-14th December 2013 |
| Control Instrumentation Communication and Computational Technologies | International conference on Control Instrumentation Communication and Computational Technologies | Noorul Islam Centre for Higher Education, Thuckalay | 10th July 2014 |
| A Study of Scheduling Algorithms for Bluetooth Picocells | International conference on Social Media for Service Sector | Fatima College, Madurai | 20 – 21st Aug 2014 |
| Designing Engineering curriculum based on Outcome Based Education | ISTE International Conference on TN & P Section | National Engineering College, Kovilpatti | 11th December 2014 |
| Technology Enhanced Teaching and Learning | 44th ISTE National Convention - 2014 | College of Engineering, Trivandram | 27th December 2014 |
| Medical Image Compression based on ROI using Hilbert Space Filling Curve | National Conference on Computing and Communication NCCC 15 | Dr Mahalingam College of Engg and Technology, Pollachi, Tamil Nadu. | April 17-18 2015 |
| Neighbourhood Weighted Fuzzy C-Means (NWFCM) Clustering Algorithm for Segmentation of Brain Tumors in CT Images | International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS) | Karpagam College of Engineering | 19th -20th March 2015 |

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|---|---|---|---|
| Design, modeling, analysis and simulation of a SEPIC Converter | International Conference on Emerging Technologies in Computing Control, Communication and Construction Technologies | Arunachala College of Engineering for women | 12th – 13th April 2016 |
| Design, Modeling and analysis of Buck, Boost, Buck Boost and Cuk Converters for solar Energy Applications | International Conference on Innovative Trends in Mechanical and Civil Engg | PET Engineering College | 10th June 2016 |
| Time domain and frequency response based modeling of Buck Converter | International conference on Emerging trends in Engineering and Technology | Arunachal College of Engineering for women | 9th December 2016 |
| Development and Experimentation of New Indigenously Developed Algorithm to Handle Virtual Nodes to Simulate The Cloud Tasks | International Conference on Advanced Computing and Communication Systems | Karpagam College of Engineering, Coimbatore | Jan. 06 – 07, 2017 |
| Continuous Set of Image Processing Methodology for Efficient Image Retrieval Using BOW SHIFT and SURF Features for Emerging Image Processing Applications | IEEE International Conference on Technological Advancements in Power and Energy | Amrita University<br>Kollam | December 21-23, 2017 |
| Malignant Gas Perusalar(in Sewer) | National Conference on Innovations in Engineering and Management | Info Institute of Engineering, Coimbatore | 17th March 2018 |
| Design and Implementation of Adaptive Tuning For Digitally Controlled Ćuk Converters | International Conference on Recent Advances in Engineering and Technology | Arunachala College of Engineering for Women, Vellichanthai | 22nd March 2018 |
| Self Optimized Bridge Scheduling for Bluetooth Scatternet | International Conference on Applied Soft Computing Technics | Kalasalingam University | 23-24th March 2018 |
| Development of Automated System Using Unmanned Air Vehicle and Internet of Things for Plant Disease Diagnosis | Interational Conference on Agricultural, Biotechnology, Biological and Biosystems Engineering-WASET | Copenhagen, Denmark | June 11th -12th 2019<br>(Accepted for presentation) |

| **Workshops/Seminars/Conferences/Training Programmes Organized** *(Mention Sponsored detail with Amount)* | | | | |
|---|---|---|---|---|
| S. No. | Name of the Programme & Venue | Dates with Duration | No. of Participants | Responsibility |
| | Women's Executive Development in Higher Education | 19th -20th Dec 2003 | 50 | Coordinator |
| | Industrial Automation using **PLC** | 13th -15th Oct 2004 | 50 | Coordinator |
| | Recent Trends in Instrumentation Application **RETINA'04** | 23rd -24th Dec 2004 | 50 | Coordinator |
| | Math CAD training | 19th -20th Apr 2005 | 50 | Coordinator |
| | Skill up gradation training program on MS Office, Internet & Tally | 31st July to 11th Aug 2005 | 50 | Coordinator |
| | Recent Trends in Instrumentation Application **RETINA'05** | 21-22nd Dec 2005 | 50 | Coordinator |
| | Instrumentation Technical Symposium **INTESY' 06** | 31st March 2006 | 50 | Coordinator |
| | Instrumentation Technical Symposium **INTESY'07** | 28th-29th Mar 2007 | 50 | Coordinator |
| | Ignite the minds of Bio Signal Engineers towards Research. | 2nd -4th Oct 2007 | 50 | Coordinator |
| | Instrumentation Technical Symposium **INTESY'08** | 19th -20th Feb 2008 | 50 | Coordinator |
| | ISTE Program on Self Assessment of the Institution for the Staff Members | 8th Apr 2008 | 100 | Coordinator |
| | Workshop on Graphical System Design using Labview **GSLV'09** | 11th – 13th Nov 2009 | 50 | Coordinator |
| | Awareness program on "**Performance Appraisal System For NEC"** | 21st Nov 2009 | 100 | Coordinator |
| | DRDO Sponsored Seminar on Research Issues in Biomedical Signal Processing & Instrumentation (Fund- 50,000) | 24th-26th Feb 2010 | 50 | Organizing Secretary |
| | Research Perspectives in Engineering | 2nd Apr 2011 | 50 | Convenor |
| | Faculty Training Programme "Train the Trainers" | 20 -23rd Dec 2011 | 60 | Convenor |

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| | Seminar on "Research Methods for Academicians, Research scholars & Practitioners" | 17th November 2012. | 50 | Convenor |
| | Ramanujan Memorial Workshop Called Cat Level Aptitude Problem-Solving in Seconds by Lateral, Non-Conventional Methods | 20th December 2012 | 400 | Convenor |
| | "Talk your way to Japan" conducted by ABK-AOTS DOSOKAI, Tamilnadu centre | 05th September 2014 | 50 | convenor |
| | FDP on Emerging Technologies with Hands on and Live Demo | 11th – 15th November 2014 | 50 | Convenor |
| | National Level workshop on Formulation of Research and development Grant proposals by scientists and Technologists | 18-20 November 2015 | 50 | Convenor |
| | Imparting Employability skills | 19th December 2015 | 72 | Convenor |
| | Embedded System Design Using PIC Microcontroller | Workshop - IELEC Systems, Tirunelveli, 30th July to 1st August 2015 | 50 | Convenor |
| | Industrial Automation | Workshop - 7th August 2015 | 50 | Convenor |
| | "Fundamentals of PCB Design | Workshop – 5th September 2015 | 50 | Convenor |
| | Circuit Debugging in MULTISIM | Workshop – 16th September 2015 | 50 | Convenor |
| | ARDUINO and its applications | Workshop, 26th – 27th October 2015 | 50 | Convenor |
| | Developing Real Time Oriented Innovative Designs (DROID-V1.0) | Project exhibits - 7th October 2015 | 50 | Convenor |
| | Hands on training on "Matlab" | Workshop - 17th October 2015 | 50 | Convenor |
| | IPR and Patents | Workshop- Director Centre for Intellectual Property Rights, Anna University, Chennai.<br>7th November 2015 | 50 | Convenor |
| | Personality Development Programme | 19th December 2015 | 60 | Convenor |
| | PLC Programming | 20th February 2016 | 50 | Convenor |

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| | Intra/Inter College Technical Symposium | 11th and 14th March 2016 | 170 | Convenor |
| | Automation in Oil and Gas industry | 24th March 2016 | 60 | Convenor |
| | Industrial Automation" using programmable logic controller (PLC) | 15th -16th March 2016 | 50 | Convenor |
| | Applications of Lab VIEW | 30th July - 4th Aug. 2016 | 50 | Convenor |
| | Motivational program | 06.08.2016 | 65 | Convenor |
| | Industrial automation using PLC | 06.08.2016 | 40 | Convenor |
| | PCB Design | 30/07/2017 | 40 | Convenor |
| | PLC Hands on Experience | 16.08.2017 | 40 | Convenor |
| | AICTE Sponsored National Seminar on "Research Perspectives and Challenges in Instrumentation Aspects of IoT"(Fund-1 Lakh) | 25th-27th Oct 2017 | 60 | Convenor |
| | Hands on training on IOT | 1-3rd Feb 2018 | 40 | Convenor |
| | Workshop on Robotics, Automation and Control Technologies - Role of Embedded System RACT-RES | 15th-16th June 2018 | 40 | Convenor |
| | Three days hands on training on MATLAB and LabVIEW | 11th – 13th Feb 2019 | 25 | Convenor |

**Faculty Interaction with Outside World National Seminar/ Training Attended:**

| Title | Venue and Period | Faculty attended | Status National / International |
|---|---|---|---|
| Personal Computers in Industrial Applications ISTE Sponsored Course | PSG Tech,3rd – 16th May 1990 | 40 | National |
| Computer Communication Networks, ISTE Sponsored Course at REC | Calicut, 9th -20th May, 1994 | 40 | National |
| Industry-Institute Partnership, ISTE Sponsored Course | RVS Engg College, 24th -26th Aug 1994 | 50 | National |
| Power Electronics and Drives, UGC Sponsored Course | AU, Chennai 23rd Nov - 22nd Dec 1994 | 50 | National |
| Computers in Process Control, ISTE Sponsored Course | Pondicherry Engg. College, 5th - 18th June 1995 | 35 | National |
| Induction training for teachers, ISTE Sponsored Course | NEC,14th -16th Nov 1996 | 40 | National |
| Modern Trends in Digital Signal | IISC Bangalore, 21st Apr | 40 | National |

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| Processing | – May 2nd 1997 | | |
| Signal Processing and Image Processing AICTE Sponsored course | REC, Calicut, 9th - 20th Feb1998 | 40 | National |
| Laser Based Instrumentation, AICTE Sponsored Course | IIT Kharagpur, 14th - 25th Dec1998 | 40 | National |
| DSP Wavelets, Fractals and Chaos | Amrita Institute of Tech., 17 - 28th May 1999 | 40 | National |
| AICTE Sponsored National Seminar at Trends in Biomedical Instrumentation | SASTHRA, Thanjavur 9th - 11th Oct 1999 | 40 | National |
| Recent Trends in Information Technology, AICTE Sponsored Course | TCE, Madurai, 25th Feb 2000 | 40 | National |
| ISTE Sponsored Course on Teacher Learner Strategy | 9th - 20th May, 2000 | 40 | National |
| AICTE/ISTE sponsored Course Compression Techniques for Multimedia applications | Pondicherry Engg College 12th -23rd June 2000 | 40 | National |
| AICTE/ISTE sponsored Course on Neural Networks Applied to Pattern Recognition | IRRT, Erode, 29th May - 11th June 2000 | 40 | National |
| Role of Instrumentation and its Development, DST sponsored workshop | MKU, 28th – 29th April 2003 | 40 | National |
| Women's Executive Development in Higher Education | AU, Chennai 26th - 27th Sep 2003 | 40 | National |
| Conducted the Workshop on "Women's Executive Development in Higher Education" | NEC, 19th -20th Dec 2003 | 50 | National |
| Conducted the Workshop on "Industrial Automation using PLC" | NEC, 13th -15th Oct 2004 | 50 | National |
| Peer Review committee Member for the Conference on "Recent Trends in Instrumentation Application" | NEC, 23rd -24th Dec 2004 | 40 | National |
| MathCAD training | 19th - 20th Apr 2005 | 50 | National |
| Skill up gradation training program on MS Office, Internet and Tally | Self Help Group of 31st Jul-11th Aug 2005 | 60 | National |
| 2nd National Conference on "Recent Trends in Instrumentation Applications" (RETINA'05) | NEC, 21-22nd Dec 2005 | 50 | National |
| ISA –CIAT Training (PLC, SCADA) through Industry Institute Interaction | PUNE, 3rd - 8th Jan 2006 | 80 | National |
| National Symposium on Instrumentation Technical Symposium (INTESY06). | Mar 31st 2006 | 40 | National |

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| National seminar programme for Empowerment of women | Peace trust, Kanyakumari, 12th -13th Aug 2006 | 100 | National |
| 36th ISTE National Annual Convention at Bannari Institute of Technology | Bannari Institute, 14th – 16th Dec 2006 | 100 | National |
| National Symposium on Instrumentation Technical Symposium INTESY07 | NEC, 28th - 29th March 2007. | 60 | National |
| Outcome based Technical Education | 25th July 2007 | 40 | National |
| Introduction to FPGA Design through ISTE Chapter | 1st Sep 2007 | 40 | National |
| Workshop on Ignite the minds of Bio-Signal Engineers towards Research. | NEC, Oct 2nd 2007 | 35 | National |
| 9th ISTE Annual Convention (Tamil Nadu and Pondicherry Section) | 2nd – 3rd Nov 2007 | 100 | National |
| Embedded system design with 8051, PIC, ARM | 10th – 15th Dec 2007 | 40 | National |
| National Symposium on Instrumentation Technical Symposium INTESY08 | NEC, 19th -20th February 2008 | 40 | National |
| Instrumentation Technical Symposium (INTESY08) | 19th - 20th Mar 2008 | 60 | National |
| Capacity Building of Women Managers in Higher Education | 8th - 12th Sep 2008 | 100 | National |
| 10th ISTE Annual Convention (Tamil Nadu and Pondicherry Section) | Mepco Schlenk Engg College 27th Sep 2008 | 40 | National |
| Image Processing Application using DSP Processors | NEC, 24th – 25th Sep 2009 | 80 | National |
| DCS & PLC Overview conducted by Yokogawa India Ltd. | NEC, 05th – 09th Oct 2009 | 50 | National |
| Workshop on Graphical System Design using Labview | NI Bangalore, 11th – 13th Nov 2009 | 40 | National |
| DRDO Sponsored Seminar on Research Issues in Biomedical Signal Processing & Instrumentation | NEC, 24th - 26th Feb 2010 | 50 | National |
| Current Challenges for the entry of foreign Educational institutions in India | Mepco Schlenk Engg., 2nd – 4th Dec 2010 | 50 | National |
| Global quality Assurance focusing on the Washington Accord and the ABET processes | Breeze Hotel, Chennai, 18th – 19th May 2011 | 40 | International |
| 14th ISTE State Level Annual Convention 2011 | Mahendra Engg College, Namakkal 29th – 30th Dec 2011 | 100 | National |
| Research Issues on Non-Destructive | National Seminar 19th- | 50 | National |

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| Evaluation | 21st September 2013 | | |
| Role of Information and Communication Technology in Teaching Learning | St.Mary's College Tuticorin, 31st Jan – 1st Feb 2014 | 200 | National |
| Regional workshop on Science writing / Journalism | NEC,17th – 21st Feb 2014 | 200 | National |
| National Programme on Technology Enhanced Learning (IIT Madras) | 24.04.2015 | 100 | National |
| MATLAB & Simulink for Engineering Education -Mathworks India, Mysore | 05.05.2015 | 50 | National |
| IPR and Patents - Workshop- Director Centre for Intellectual Property Rights, Anna University, Chennai | . 7th November 2015 | 70 | Regional |
| Formulation of Research & Development Grant Proposals by Scientists and Technologists(FRDGP '15) | Workshop 18th to 20th November 2015 | 70 | National |
| Special training on Yoga and Kayakalpa | Aaliyar, 24th -26th May 2016 | 50 | National |
| AICTE sponsored QIP short Term Course on HDL for Signal, Image and Video Processing (HSIVP 2017) | IIT Varanasi<br>21st – 26th Aug 2017 | 50 | National |
| Applications of Blooms Taxonomy for Teaching Learning Process | NEC, 11th Nov 2017 | 50 | College level |
| Leadership training program | Madurai, 28th – 30th Dec 2017 | 40 | College level |
| Robotics, Automation & Control Technologies-Role of Embedded Systems-NEC | 15th -16th June 2018 | 40 | Regional level |
| DST-SERB Sponsored National level Seminar on "Challenges in materials for Energy Conversion, Storage and enhancement applications-NEC | 10th -11th Aug 2018 | 50 | National Level |

**Industry Know-How**

| S.No. | Name of the company | Content | Dates |
|---|---|---|---|
| 1 | SIEMENS, Bengaluru | Automated products | 20th January 2016 |
| 2 | Circuitor | Energy management systems | 21st January 2016 |
| 3 | iWave System | Embedded systems | 21st January 2016 |
| 4 | Ed-Gate technologies Pvt Ltd | Texas Instruments Innovation center related products demo | 14th – 15th May 2018 |
| 5 | TENET TECHNETRONICS | Solid Thinking Embed 2017 softward | 16th May 2018 |
| 6 | NGX Technologies Pvt.Ltd | Product development ideas | 17thto 18th May 2018 |

**MOUS Signed**

| ClientOrganization | Role | Period |
|---|---|---|
| M/s.IELEC systems | Hands on experience on PIC/ARM/Arduino/ Raspberry Pi and miniprojects | 2017- 2020 |
| M/s Lumisense Technologies Ltd | DBT-BIRAC-PACE PROJECT proposal Submitted on 31st July 2018. Mou signed – to provide necessary services required to test the whole system. | 2018-2020 |

**BOS and Academic Council Member**

| Position | Name of the Board | Period | |
|---|---|---|---|
| | | From | To |
| Board of Studies | EEE Board, Anna University Tirunelveli | 2009 | 2014 |
| Board of Studies | EIE Board, National Engineering College, Kovilpatti | 2011 | Till now |
| Academic Council | National Engineering College, Kovilpatti | 2011 | Till now |
| Board of Studies | Sethu Institute of Technology, Kariapatti | 2014 to Till now | |
| Board of Studies | PSN College of Engineering and Technology, Tirunelveli | 15.07.2014 to till now | |
| Advisory Committee member | IEEE International onference on Emerging Technological Trends in Computing, Communications and Electrical Engineering, Baselios Mathews II College of Engineering | October 2016 | |
| Advisory Committee member | IEEE International onference on Circuit, Power, and Computing Technologies, Baselios Mathews II College of Engineering | April 2017 | |

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| Convener for conducting the 1st Board of Studies meeting (Mechanical Board) | 05th July 2011 |
| Convener for conducting the 1st Academic Council meeting | 11th July 2011 |
| Convener for conducting the 1st Board of Studies meeting | 17th – 19th Nov 2011 |
| Convener for conducting the 2nd Academic Council meeting | 10th Dec 2011 |
| Convener for conducting the Faculty development program for our Institution | 20th – 23rd Dec 2011 |
| Convener for conducting the 2nd Board of Studies meeting | 07th – 09th May 2012 |
| Convener for conducting the 3rd Board of Studies meeting | 16th – 25th Feb 2013 |
| Convener for conducting the 1st year Board of Studies meeting | 24th July 2013 |
| Convener for conducting the 4th Board of Studies meeting | 28th Dec 2013 – 29th Jan 2014 |
| Convener for conducting the 4th Academic Council meeting | 05th April 2014 |

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| Convener for conducting the 5th Board of Studies meeting | February 2015 |
| Convener for conducting the 5th Academic Council meeting | April 2015 |
| Chairman- Sixth Board of Studies meeting | 4th March 2016 |
| Member- Standing committee of Academic Council meeting | 4th April 2016 |
| Member- 6th Academic Council meeting | 7th April 2016 |
| Panel member of Research Committee meeting | 18th July 2014, 22nd Decr 2015, 24th Feb 2016, 25th April 2016 |
| Convener for women empowerment | From 2015 to till now |
| Chairman for conducting the Board of Studies meeting | 6th March 2017 |
| Member for the Academic council meeting | 7th April 2017 |
| Member for standing committee meeting of the Academic council | 12th June 2017 |
| Chairman for conducting the Board of Studies meeting | 3rd May 2018 |
| Member for the Academic council meeting | 19th May 2018 |

**Expert Lecture Delivered:**

| Name of the Program | Title of the paper presented | Date | Address of the Institution / Organization where held |
|---|---|---|---|
| National Symposium | Application of PLC & DCS in Industry | 29th Aug 2001 | Kamaraj Engineering College, Virudhunagar |
| National Seminar | Recent Trends in Process Control | 4th March 2002 | Karunya Institute of Technology, Coimbatore |
| Women's Executive Development in Higher Education – National Seminar | Personal Development Planning | 20th Dec 2003 | National Engineering College, Kovilpatti |
| Faculty Development Program | Application of Sensors | May 2004 | National Engineering college, Kovilpatti |
| Symposium | Recent Trends in Electronics | 10th Sep 2004 | S.S.D.N.M Arts College |
| Workshop | Industrial Automation using PLC | 14th Oct 2004 | National Engg College, Kovilpatti. |
| National Symposium | Industrial applications of Programmable Logic Controllers | 6th July 2006 | Kamaraj Engineering College, Virudhunagar |
| National Seminar | Status of Women In India With Special Reference : Rural Women | 12th Aug 2006 | Peace trust, Kanyakumari. |
| National Seminar | Empowerment of Women in Information Technology | 13th Aug 2006 | Peace trust, Kanyakumari. |

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| 36th National Annual ISTE convention | Quality, Sustainability and Social Responsibility : Interfaces in Technical Education in the Context of Globalization | 13th Dec 2006 | Bannari Institute of Technology<br>Coimbatore |
| National Symposium | Recent Trends in Instrumentation & Process Control | 23rd Mar 2007 | Indian Engineering College, Vadakankulum |
| National Seminar | Emerging Trends in Electrical Sciences | 28th Mar 2007 | The Indian Engineering College, Vadakangulam |
| 9th ISTE Annual convention (TN & Pondicherry Section) | Challenges in Indian Technical Education in the Context of Globalization | 3rd Nov 2007 | National Engineering College, Kovilpatti |
| 10th ISTE Annual convention (TN & Pondicherry Section) | Problems & Issues of the Autonomous Technical Institutions & Universities in the Context of Higher level Knowledge Creation | 27th Sep 2008 | Mepco Schlenk Engineering College |
| National Symposium | Industrial Automation | 29th Sep 2008 | Sethu Institute of Technology |
| National Conference on Advances in Electronic Communication Systems | Mathematical applications in Engineering Research | Dec 2008 | National Engineering College, Kovilpatti |
| National Conference | Emerging Trends in Advanced Computing | 06th Mar 2009 | Pet Engineering College, Vallioor |
| Skill Up gradation training for SHG | MS Office & Internet | 31st July -11th Aug 2009 | National Engg College, Kovilpatti. |
| DRDO Sponsored Seminar | Research Issues in Biomedical Signal Processing | 24th Feb 2010 | National Engg College, Kovilpatti. |
| 40th ISTE Annual convention (TN & Pondicherry Section) | Current Challenges for the entry of foreign Educational Institution in India | 3rd Dec 2010 | Mepco Schlenk Engineering College |
| National Seminar | Research Perspectives in Engineering | 2nd April 2011 | National Engineering college |
| National Seminar | Process control Principles and Applications | 28th March 2011 | Sethu Institute of Technology |
| National Seminar | Actuators and Transmitters | 5th May 2011 | Sethu Institute of Technology |
| National Seminar | Research Issues in Bio medical Signal Processing | 18th Mar 2011 | National Engineering College |
| National Conference | Recent Advances in Communication Technologies | 01st Apr 2011 | Francis Xavier Engineering College, Tirunelveli |
| National Conference | Advances in Electronic Communications | 1st Apr 2011 | National Engineering College |
| AICTE sponsored National Seminar | Introduction to Research | 18th April 2011 | Sona College of Engineering and |

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| | | | Technology, Salem |
| AICTE sponsored National Seminar | How to send project Proposal | 18th April 2011 | Sona College of Engineering and Technology, Salem |
| National Symposium | How to select the Research Projects | 1$^{4th}$ Sep 2011 | The Rajaas Engineering College, Vadakkangulam |
| National Symposium | Recent advances in Electronics & Communication | 21st Sep 2011 | Scad College of Engg. & Technology, Cheranmahadevi |
| International Conference | Emerging Trends in Communication | 8th March 2012 | Maria College of Engineering, Nagercoil |
| National Symposium | Preparations for your Project perusal | 16th March 2012 | Sri Vidhya College of Engineering, Virudhunagar |
| National Seminar | Recent Trends in Process Control | 17th Aug 2012 | Sethu Institute of Technology, Kariapatti |
| ISTE Students Chapter | How to improve Soft Skills | 31st Aug 2012 | Lakshmi Ammal Polytechnic College, Kovilpatti |
| DRDO Sponsored Seminar | Soft Computing in Electrical Engineering | 18th Oct 2012 | Sri Vidhya College of Engineering, Virudhunagar |
| National Seminar | Research Issues in Engineering | 17th Nov 2012 | National Engineering College |
| National Science Day and Literacy Debating Society | Soft Skills | 28th Feb 2013 | P.S.R. Rengasamy College of Engineering For Women |
| National Conference | Robotics and Artificial Intelligence | 08th March 2013 | Sivaji College of Engineering and Technology, Manivila. |
| National Seminar | Paper presentation on "Role of Information and Communication Technology in Teaching Learning" | 31st Jan – 01st Feb 2014 | St.Mary's College (Autonomous), Thoothukudi |
| International Conference | Emerging Trends in Communication | 13th March 2014 | Maria College of Engineering, Nagercoil |
| FDP sponsored by AICTE | Recent Trends and Developments in Bio Medical Engineering | 14th May 2014 | Maria College of Engineering, Nagercoil |
| International Conference on Control Instrumentation Communication and Computational Technologies | Control Instrumentation Communication and Computational Technologies | 10th July 2014 | Noorul Islam Centre for Higher Education, Thuckalay |
| FDP on Process control sponsored by AU Chennai | Optimum controller settings using time response and frequency response | 17th December 2014 | Sethu Institute of Technology |

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| Technical Seminar | Recent Trends in Electronics & Instrumentation | 06th February 2015 | PSN College of Engineering and Technology, Tirunelveli |
| National Conference on Application in VLSI and Embedded Technologies | Inaugural address | 20th March 2015 | Dr.Sivanthi Adithanar College of Engineering |
| National Level workshop on Formulation of Research and development Grant proposals by scientists and Technologists | Knowledge and scope of research grants | 18-20 November 2015 | National Engineering College<br>Kovilpatti |
| National Conference on Sustainable Aspects of Engineering Technology and Management | Keynote address | 18th March 2016 | Udaya School of Engineering and Technology, Nagercoil |
| Motivational Program | Core competencies and product development | 02nd Aug.2016 | NEC |
| Motivational program | Attitude change and Seven habits of highly effective people | 06th Aug.2016 | NEC |
| Workshop | Application of MATLAB in Circuit theory and Control Systems | March 2017 | NEC |
| AICTE Sponsored National Seminar on Research Perspectives and Challenges in Instrumentation Aspects of IoT | Intelligent IOT system and its Communication Technologies | 25th Oct 2017 | NEC |
| One day awareness program | Awareness programe on NACC- Revised Application format. | 10th Nov 2017 | FX Engineering College, Tirunelveli |
| CSIR sponsored National level seminar on Research Issues and Challenges in the development of Medical Devices | Case studies on Research Issues and Challenges in the development of Medical Devices | 1st Feb 2019 | NEC |
| Three days hands on training on MATLAB and LabVIEW | Case studies on MATLAB and LabVIEW for Engineering Applications | 12th Feb 2019 | NEC |

**Ph. D. Thesis evaluated and Viva conducted:**

| **Name of the candidate and Supervisor** | **Title of the thesis** | **Name of the University** | **year** |
|---|---|---|---|
| B.N.Shoba, AP, Bangalore<br>Dr. N.J.R.Muniraj, Principal , Tejaa Shakthi Institute of Technology for women Coimbatore | Design, modeling and analysis of Nano-Biosensors for prostate Cancer Detection | Karpagam University | 2015 |

| | | | |
|---|---|---|---|
| Geetha.G ,Dr. N.J.R.Muniraj, Tejaa Shakthi Institute of Technology for women Coimbatore | Balancing stability and security for maximizing energy efficiency in MANET | Karpagam University | July 2015 |
| Mr.Santhana kumar, Dr.Sukumar, Erode Govt Arts College | Interactive Data flow Analysis using Web Application Testing on user sessions | Bharathiyar University | 2015 |
| Ms.K.Prabha, Dr.Sukumar, Erode Govt Arts College | Support Vector Machine based Techniques for Network Intrusion System | Bharathiyar University | June 2014 |
| Mrs.Reena Sebastian,Cochin<br>Dr. N.J.R.Muniraj, Tejaa Shakthi Institute of Technology for women Coimbatore | Ways to improve elimination of cancer cells(Tumor) using MEMS Technology | Karpagam University | September 2016 |
| Mr.K.Vinoth Kumar<br>Dr.S.Bhavani, Prof.&Head/ECE, Karpagam University | Investigations on location based multipath secured energy efficient routing approach for MANET | Karpagam University | September 2016 |
| Mr.Sathish K and Dr.NJR Muniraj, Tejaa Shakthi Institute of Technology for women, Coimbatore | On ways to improve sound diagnostic system using VLSI Technology | Anna University, Chennai | 5th October 2016 |
| Mr. Joy. K.R. and Dr.S.Bhavani<br>Prof. &Head/ECE, Karpagam University, Coimbatore | Quality Assessment of large images: A simplified approach using image gradients and structural similarity | Karpagam University, Coimbatore | October 2016 |
| Saniya Mukram Ansari<br>Dr.S.Bhavani, Prof. &Head/ ECE, Karpagam University, Coimbatore | A novel approach towards on-line handwritten isolated word recognition for Devnagari script | Karpagam University<br>Coimbatore | 30th August 2017 |
| Supervisor-Dr.Agees kumar<br>Dean (R & D) | Severity analysis of Diabetic Retinopathy in Retinal Images using various Digital SVM Classifications | Arunachala Engineering college, Anna University Chennai | 7th April 2018 |
| MrN.Suresh Kumar, AP/ECE, Nehru college of Engineering,<br>Dr.S.Bhavani, Prof.&Head/ECE, Karpagam University, Coimbatore | Certain Investigation on Reliable energy efficient scheme for increasing network lifetime in MANET using Multi-Hop Routing | Karpagam University, Coimbatore | 19th June 2018 |

**Ph.D. Degree awarded under my guidance**

| Name of the candidate/Supervisor/ Joint Supervisor | Title of the Ph.D.work | University | Month and year |
|---|---|---|---|
| Antony Freeda Rani | Tuning of PI Controller using soft computing Techniques for Permanent Magnet Brushless DC Motor | Anna University, Chennai | 17th April 2017 |
| Muthu kumar P<br>Supervisor: Dr.P.Melbamary<br>Joint Supervisor: Dr.B.Sankaragomathi | Critical Evaluation of High performance PWM Techniques | Anna University Chennai | 3rd October 2017 |
| Sheeja Kumari V | Certain Investigations on Tissues classification in MRI Brain Image using Soft Computing Approach | Anna University Chennai | 29th January 2018 |
| Ramakrishnan T | Soft Computing Techniques-A promising boon to certain Professional investigations on the classification and segmentation of Computed Tomography Brain Images | Anna University Chennai | 26th Oct 2018 |

**Specific Achievment(S) Awards/ Reviewers for Journals Honors received (Awards, Fellowship, etc.):**

| Name of award/Fellowship/Patent | Year |
|---|---|
| **M.TECH INSTRUMENTATION AND CONTROL SYSTEMS WITH HONORS** | **1992** |
| Institution of Electronics and Telecommunication Engineers-Fellowship. | 2004 |
| Received the best paper award for a Technical Paper presented at the National Conference held at PSG college of Technology, Coimbatore | 2002 |
| Received the **Women Engineer award-2008** through **Institution of Engineers (India)** Tamil Nadu State Center | 2008 |
| Biographical-note is included in the Volume IV of Asian Admirable Achievers published by **Asia's Who's Who of Men & Women of Achievement** | 2009 |
| Selected for receiving **Bharath Excellence award, Leading Scientists of the world medal, International Einstein Award for Scientific Achievement** | 2010 |
| **Best Faculty Award through Nehru Group of Institutions** in the Branch of Electronics and Communication Engineering | Dec 2011 |
| Periyar Award through **ISTE for best Engineering College teacher** | Dec 2011 |
| Received best paper award for the paper presentation in the International Conference held at PSG college of Technology, Coimbatore | Dec 2013 |
| Received **National Citizenship Gold Medal Award** through Global Economic Progress and Research Association at Bangalore | 1st May 2016 |
| Received **Teaching Excellence Award** through **Indo American Education Summit -2016 at Bangalore** | 23rd September 2016 |
| Received **Dr.APJ Abdul Kalam Award for Life time contribution in teaching** | 22nd October |

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| through Marina Labs Research and Development | 2016 |
| Receivd **Honorary doctorate award i.e. Doctor of Letters(D.Litt.)** through Dr.S.Radhakrishnan Research and Development Centre in association with University of South America. | 8th January 2017 |
| **Life Time Achievement Award** through DK International Research Foundation | 27th May 2018 |

**Reviewer for the Journals:**

- One of the Active Reviewer for the world Scientific Journals 2010-2016
- Reviewer for Institute for Exploring Advances in Engineering(IEAE) International Journals 2015
- Reviewing the Journals Published by AMSE Journals 2010
- WSEAS Journals 2010
- Reviewed the papers in the International Science PG Journals during December 2017
- Reviewed the papers in the International Science Alert Journals during January 2018
- Autosoft Journal- International Journal on Intelligent Automation and Soft Computing 2017
- Taylor & Francis Journal Journal of Electronics/Journal of Electronic Letters June 2018
- Springer Journals : Electrical Engineering June 2018
- Saudi Journal of Engineering and Technology-Assoiate Editorial Board Member
- Acting as Lead Guest Editor for the International Journal of Medical Imaging for the Special Issue on Biomedical Signal/Image Processing 2017
- Through Easy chair: 1. EEG Emotion Detection Review
- International conference on Soft Computing in Applied Sciences and Engineering- Noorul Islam University during the year 2015
- ICSCASE-2015 – Reviewer for nine papers in the area of Image processing
- ElsevierJournal(Informatics in Medicine Unlocked) Brain Tumor segmentation in FLAIR MRI using sliding Window Texture Feature Extraction followed by Fuzzy C-Means Clustering- September 2018.

**Membership/Fellowship in Professional Societies:**

| Name of Society | Grade of Membership |
|---|---|
| Institution of Electronics and Telecommunication Engineers | Fellow (F-169861) |
| Institution of Engineers(India) | Fellow (F-115891-7) |
| **International Society for Research and Development (ISRD)** | **Senior Member (SR3140900121)** |
| Biomedical Engineering Society of India | Life Member (L558) |
| System Society of India | Life Member (LM22018) |
| Indian Society for Technical Education | Life Member (LM7405) |
| Charted Engineer [(IE(I)] | Life Member |
| Instrumentation Society of India | Life member (M/1378) |
| International Association of Engineers | Life Member (M108810) |
| Society of Women Engineers | Life Member |
| International Association of Computer Science and Information Technology (**IACSIT)** | Life Member |
| Life Time Patron Member of Empowering Women in IT | Life member |
| IEEE | **Member 94164778** |