

## Faculty Profile



**Dr. M.Moorthi , M.E., Ph.D**  
Professor-BME and HoD – MED

### **HIGHLIGHTS:**

- Number of Journal/Conference Publications:51
- H-Index :9
- Project/ Event Funding Received :25 L from IEEE, USA
- Patents Published :4

### **PROFESSIONAL LINKS:**

- Scopus ID : 59207612800
- **ORCID ID** : 0000-0001-8806-1964
- Anna University Faculty ID : 2122483
- AICTE Faculty ID :1-4639441518
- Anna University Supervisor ID : 2740113
- Department R&D Centre Number :4121625

### **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: 24 Years

### **INTERNATIONAL EXPOSURE:**

- Visited Asia Pacific University of Technology and Innovation, Malaysia, for Paper presentation

### **AREA OF SPECIALIZATION:**

- Medical Image Processing
- Microprocessor and Microcontroller
- Biomedical Instrumentation
- Soft Computing
- Antenna and Wavepropagation

## Ph.Ds AWARDED WITH DETAILS:

S:No	Name of Scholar	Title of Thesis	Year of Completion
1	<b>Dr.S.Madhusudhanan</b> (1215499920-PT)	An Efficient Sentiment Analysis using Novel Bioinspired Feature Selection and Fuzzy Classification	<b>18.06.2020</b>
2	<b>Dr.V.R.Kavitha</b> (1224499731-PT)	Quality of Service Improvements in Mobile Adhoc Network using Hybrid Simulated Annealing Stochastic Diffusion Search for Virtual Backbone Optimization	<b>22.07. 2020</b>
3	<b>Dr.P.Malathi</b> (1323499133-PT)	Enhancement of Speech Intelligibility and Naturalness using RADWT	<b>25.09. 2020</b>
4	<b>Dr.R.Thiagarajan</b> (1614499405-PT)	Optimized Energy and Quality Aware Clustering Protocol based on Grammatical Evolution in MANET	<b>30.09. 2020</b>
5	<b>Dr.I.Mohan</b> (1613499402-PT)	Enhanced Sentiment Analysis And Detection Through Intelligent Chatbot	<b>12.01.2023</b>
6	<b>Dr.Omana</b> (17244997356-PT)	Data Augmentation Based On Machine Learning Model For Insulin Dosage Prediction To Mitigate Adverse Drug Effects	<b>15.12.2023</b>
7	<b>Ms.T.K.R.Agita</b> 17224997645-FT	A novel approach for early detection of liver cancer through image processing technique	<b>31.05.2024</b>
8	<b>Dr.T.Rubesh Kumar</b> 1517499543-PT	Studies on Design and Analysis of Microstrip Patch Antenna for 5G Low Band and Mid Band Applications	<b>18.12.2024</b>

## Ph.Ds GUIDING:

- **Full Time Scholars: 2**
- **Part Time Scholars : 5**

## SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

### Details of the Funding Received:

- Received fund of **Rs 1,26,236** from IEEE RAS to conduct workshop and Seminar during the year **2024-2025**
- Received fund of **Rs 5,11,585** from IEEE RAS, Photonics to conduct workshop and Seminar during the year **2023-2024**
- Received fund of **Rs 3,88,378** from IEEE Photonics, EMBS, EDS/USA and **IEEE R10 Educational Activities Projects** to conduct workshop and Seminar during the year **2022-2023**
- Received fund of **Rs 3,40,427** from IEEE Photonics, RAS, CS, EDS/USA and Madras section to conduct FDP, STTP, workshop and Seminar during the year **2021-2022**
- Received fund of **Rs 4,27,530** from IEEE Photonics, RAS, CS, EMBS/USA and Madras section to conduct International Conference, workshop and Seminar during the year **2020-2021**
- Received fund of **Rs 2,96,667** from AICTE, to conduct STTP on Implementation of Medical Image Processing using Advanced Green Computing Technology during the year **2019-2020**
- Received fund of **Rs 4,55,800** from IEEE Photonics, RAS, CS, WIE, IAS/USA and Madras section to conduct workshop and Seminar during the year **2019-2020**

- Received fund of **Rs 2,73,000** from AICTE, to conduct STTP on Development Of Smart System In Medical Informatics For Green technology during the year **2018-2019** at PEC
- Received fund of **Rs 1,56,000** from CSIR.BRNS,IEEE, to conduct an International Conference at PEC

#### **Details of the Research Project :**

- TNSCST Proposal on A Smart Health Monitoring System Based On Web-Service Oriented Architecture-3.2L
- DBT Proposal on Design and Development of a Smart Health Monitoring System -3.2L
- IEEE HAC Proposal on Design And Development of an Intelligent Oxygen Delivery System for Acute Pulmonary Diseases-7L

#### **PATENTS PUBLISHED/GRANTED:**

1. IOT Based Health Monitoring System For Real-Time Data Analytics, published on 18.10.24 **Application No- 202441074958 A**, Journal No. 42/2024
2. Design and Development of a Smart Health Monitoring System, published on 17.03.23- **Application No-202341010338A**, Journal Number 11/2023
3. An Improved Quality model for medical image compression in Telemedicine - **Application No. 2334/CHE/2014.**
4. Region Based Medical Image compression in Telemedicine - **Application 2335/CHE/2013.**

#### **BOOK PUBLISHED**

1.Dr.B.Arunsundar,**Dr.M.Moorthi**.Mrs.K.Dhivya(2023), ‘Communication Engineering’, Charulatha Publications, Chennai.ISBN No: 978-93-5577-632-7.

**2.Dr.M.Moorthi**(2019),‘Diagnostic and Therapeutic Equipment-II’, The Charulatha Publications, Chennai.ISBN No:978-81-979337-5-2.

#### **COURSES CERTIFIED:**

- Completed **NPTEL/SWAYAM Course** on Digital Image Processing, **Elite with Silver Certification** from IIT, Madras, Funded by the Ministry of HRD, Govt. of India
- Completed **NPTEL/SWAYAM Course** on Internet of Things with **Elite Grade** from IIT, Kharagpur, Funded by the Ministry of HRD, Govt. of India
- Completed IUCEE course on Improving Competency and Values towards Intellectual Development, Organized by STLC.

#### **ACHIEVEMENTS AND AWARDS:**

- Best student Project mentor with cash Rs 2000 from IEEE Madras section for SPF 2023
- Best Fund Receiving Award for FDP, Workshop, Conference from IEEE during the year 2019 to 22.
- Best SB Volunteer appreciation Award for 2021, 2022 academic year from IEEE Madras Section
- Best Staff Award for Journal paper Publication during the year 2019, 2020, 2021, 2022.
- Best IEEE Coordinator with cash award for 2019 academic year from IEEE Madras Section
- **Technical chair** for an IEEE Technically sponsored International conference on Smart Structures and Systems, ICSSS'19
- Received **Honorable Mention Award** for International Research Scholarship on Primary Snoring 2018, Health. On Venture, **Germany.**
- Elite with Silver Certification from NPTEL for Introduction to IOT and Digital Image Processing
- Best IEEE Coordinator with cash award and Certification for 2017, 2016, 2015 academic year from IEEE Madras Section at PEC
- NBA/ NAC 6<sup>th</sup> Criteria coordinator at Prathyusha Engineering College and was successful in receiving the accreditation.

- Received cash award for producing 95 - 100% results in the Anna University Examination at PEC
- Received an appreciation as Coordinator for International Conference AEEICB -12 and 16,17,18 at PEC in association with IETE, CSIR and IEEE.

### **SPECIAL SESSIONS DELIVERED:**

- Session Chair for AICTE VAANI (Vibrant Advocacy for Advancement and Nurturing of Indian Languages) sponsored 2 days International Conference on Medical Devices, Diagnostics, Imaging and Digital Technologies (ICMDID 2024) during 21st -22nd August 2024 in Tamil language at Rajalakshmi Engineering College.
- Jury member for IEEE Sponsored Project Expo NEXUS 2K24 -23/03/2024 at Veltech University, Chennai.
- Speaker for Online FDP on Medical image Segmentation and Compression techniques - 09/01/2024 at Kings Engineering College, Chennai.
- Jury member for IEEE Sponsored Symposium -08/09/2023 at Jeppiaar Engineering College, Chennai.
- Chief Guest for IEEE RAS inauguration -24/08/2023 at Rajalakshmi Engineering College, Chennai.
- Speaker for AICTE ATAL Sponsored FDP on A Novel Method for Medical Image Compression techniques -07/02/2023 at Agni College of Technology, Chennai.
- Speaker for Online Guest Lecture on Medical image compression techniques in Telemedicine -19/03/2022 at KL University, Vijayawada, Andhrapradesh
- Speaker for ISTE Sponsored Online webinar on Region based Medical Image Compression in Telemedicine at Vemu Institute of Technology on 14.11.21
- Session speaker for ONLINE One Week AICTE Sponsored STTP on “ Medical Image Processing & It’s Applications in Automated Disease Detection ” at St. Martin’s Engineering College, Andhrapradesh on 26.05.21.
- Jury Member for HACK ELITE –Intra college Hackathon at Panimalar Institute of Technology on 09.05.21
- Session speaker for One Week AICTE Sponsored STTP on Applied Mathematics for Scientific Computation at SA Engineering College on 09.11.19
- Session Chair for IEEE sponsored Fourth International Conference on Innovative and Emerging Trends in Engineering and Technology (ICIETET 19) at Panimalar Institute of Technology, Chennai on 26.04.19
- Delivered Guest lecture on Drafting Journal Paper at Jeppiar Institute Technology on 18.07.18
- Resource Person for Anna University sponsored FDP on “EC 6701-RF and Microwave Engineering” at Adhi Engineering College on 11.06.18

### **CONFERENCES/SEMINARS/WORKSHOPS ORGANISED: 35**

#### **At Saveetha Engineering College**

- Organized one week ONLINE FDP on “Advanced Research in Biomedical Engineering” from 29<sup>th</sup> January 2024 – 2<sup>nd</sup> February 2024, in association with **IEEE, IETE, IE(I)**.
- Organized Three Days Workshop (Hybrid Mode) on “ Emerging Computational Intelligence And Optimization Techniques In Healthcare” from 25<sup>th</sup> – 27<sup>th</sup> September 2023, Sponsored by **IEEE Photonics Society RAS , Computer Society**.
- Organized one week FDP on “Advanced Green Computing Technology in Healthcare” from 26<sup>th</sup> to 30<sup>th</sup> December 2022 Sponsored by **IEEE Photonics Society RAS , Computer Society**.

- Organized **IEEE R10 EAC Reaching Local Initiative** workshop on Incorporating the coding with Emerging Technology in Industry and **IEEE R10 EAC Try-Engineering And STEM** workshop on IoT and Pi Technology in Smart Health System from 26<sup>th</sup> to 30<sup>th</sup> August 2022
- Organized Two Day International Conference on “Biomedical Smart Structures And Systems 2021” from 07<sup>th</sup> to 08<sup>th</sup> May 2021 Sponsored by **IEEE Photonics Society RAS , Computer Society.**
- Organized 3 Series **AICTE Sponsored STTP** on Implementation of Medical Image Processing using Advanced Green Computing Technology.
- Organized Two Day National Conclave On Industrial IOT, Renewable Energy And Machine Learning on 21<sup>st</sup> & 22<sup>nd</sup> February 2020,Sponsored by **IEEE RAS , IAS, Computer Society, WIE.**
- Organized Three Day National Seminar Cum Workshop on Frontiers Of Photonics And Optical Communication from 26.09.19 to 28.09.19, Sponsored by **IEEE Photonics Society.**
- Organized One day National Workshop on RF Components Measurement using Vector Network Analyzer at 6GHz”on 07.09.19 sponsored by **IEEE Madras Section**
- Organized One day National Workshop on Advanced Medical Equipment, 07/02/19.

**CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:60**

**PROFESSIONAL MEMBERSHIPS:**

- **IEEE** – Institute of Electrical and Electronics Engineers-92287558(**Senior Member**)
- **IETE** - Institution Of Electronics and Telecommunication Engineers-228037
- **ISTE** – Indian Society for Technical Education-61872

**OTHER DETAILS (If any):**

**Science citation Indexed (SCI) : 14 & Social Science citation (SSCI) : 1, WOS-15**

**Google Scholar Citations- 318 (h-index-9, i10-index-7)**

**Research gate score-408 with more than 2 L reads (302 Citations & h-index-8)**

**Scopus indexing - 35 Docs with 189 Citations & h-index- 6**

**Web of Science indexing- 15 Docs with 97 Citations & H-index-4**

**SCI & Scopus Indexed Journal Paper Publications**

- 1) S.Sathishkumar, **M.Moorthi**,(2024),“Automated radial basis function based MRI brain segmentation”, AIP Conference Proceedings Journal, **SNIP-0.291**, 3161(1),020368-79 (**Scopus**)
- 2) S.Sathishkumar, **M.Moorthi**,(2024),“A novel accuracy analysis of coronary artery disease prediction using K-nearest neighbour (KNN) classifier over support vector machine”,AIP Conference Proceedings Journal, **SNIP-0.291**, 3161(1),020213-26, (**Scopus**)
- 3) Alexander, **M.Moorthi**,(2024),“Design and develop an exoskeleton suit for industrial working environment, AIP Conference Proceedings Journal, **SNIP-0.291**, 3161(1),020053-65, (**Scopus**)
- 4) Alexander, **M.Moorthi**,(2024),“Develop facial expression control system by using image processing and neural network for the disability, AIP Conference Proceedings Journal, **SNIP-0.291**, 3161(1),020051-62, (**Scopus**)
- 5) Alexander, **M.Moorthi**,(2024),“Implement flexible manufacturing system (FMS) by developing auto-sizing side guard for conveyor, AIP Conference Proceedings Journal, **SNIP-0.291**, 3161(1),020054-64, (**Scopus**)
- 6) S.Sathishkumar, **M.Moorthi**(2024),“Enhancing solar radiation estimation in Malaysia: A backpropagation neural network empowered by evolutionary algorithms for photovoltaic

- planning”,AIP Conference Proceedings Journal,SNIP-0.291,2764(1), 020001-18, (Scopus)
- 7) T.Rubeshkumar,**M.Moorthi**,(2024),“ Comparative analysis of an Implantable Patch Antenna with and without Defective ground Structure using Nema grade Reinforced epoxy Laminated Material”, AIP Conference Proceedings Journal, **SNIP-0.291**, 2853(1),020284-298, (Scopus)
  - 8) Immaculate Joy,**M.Moorthi**,(2024), Smart IoT-Based Cardiac Devices for Ambulatory Healthcare Monitoring,,Lecture Notes in Networks and Systems, **SNIP-0.282**, Vol.1007, 451–462, Springer Berlin Heidelberg,[Scopus]
  - 9) **M.Moorthi**,(2024), Smart Glove with Real Time Patient Monitor System,LNNS, **SNIP-0.282**,Vol.1007,PP.153-163,Springer(Scopus)
  - 10) **M.Moorthi**,Bhuvaneshwari(2024),Detection and Classification of Periapical Dental X Rays Images using Machine learning,Lecture Notes in Networks and Systems, **SNIP-0.282**, Vol.1006, pp. 357–371, **Springer Berlin Heidelberg**,[Scopus]
  - 11) Priya.J.L,**M.Moorthi**,(2024),A Comprehensive analysis of NOMA in 5G Futuristic Mobile communications,Lecture Notes in Networks and Systems,**SNIP-0.282**,Vol.1006, pp. 373–383, **Springer Berlin Heidelberg**,[Scopus ]
  - 12) S.M.Sureka,**M.Moorthi**,(2024),Tooth Sensitivity Device-Detection and Diagnosing of Sensitivity in the Dental Pulp,Lecture Notes in Networks and Systems, **SNIP-0.282**, Vol.873, pp. 77–89, **Springer Berlin Heidelberg**,[Scopus]
  - 13) Famitha,**M.Moorthi**,(2024),Deep Learning Approach for cancer Detection through Gene Selection,Lecture Notes in Networks and Systems, **SNIP-0.282**, Vol.869, pp. 285–298, **Springer Berlin Heidelberg**,[Scopus]
  - 14) **M.Moorthi**,Ashok(2024),Intraocular Pressure Monitoring Using IoT, 2024 Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE), **IEEE Xplore**[ Scopus]
  - 15) S.Sathishkumar,**M.Moorthi**(2024),Advanced Edge-Computing Solution for Intelligent Material Identification in Construction: WebAssembly Integration and Performance Analysis, 21st Student Conference on Research and Development ,pp 606-625, **IEEE Xplore**[ Scopus]
  - 16) N.Nagaraj,**M.Moorthi**(2023),“ A Cloud based Architecture for Hosting ECG arrhythmia data Classification Service”,AIP Conference Proceedings Journal,**SNIP-0.291**,2764(1),pp.060012-28, (Scopus)
  - 17) Babu Chinta, **M.Moorthi**,(2023),“ EEG-Dependent Automatic Speech Recognition Using Deep Residual Encoder Based VGG Net CNN”, Computer Speech & Language, **Elsevier**, Vol 79,**H Index-21,IF-4.3,SJR-0.21,SNIP 1.667 (AU Annexure 2023 list)**[**SCI Journal**].-S.No 6641
  - 18) T.K.R.Agitha,**M.Moorthi**,(2023),Detection of Disease in Liver Image Using Deep Learning Technique,Lecture Notes in Networks and Systems, **SNIP-0.282**, Vol.681, pp. 285–298, **Springer Berlin Heidelberg**,[Scopus Indexed ]
  - 19) **M.Moorthi**,Merisha(2023),A Medicare System for Monitoring And Nerve Stimulation of Immobilized Patients,2023 4th International Conference on Electronics and Sustainable Communication Systems, ICESC 2023 - Proceedings, pp. 1340–1345), **IEEE Xplore**[Scopus]
  - 20) **M.Moorthi**,Kirupa(2023),,Secure Communication via IRIS and PALM Print Validation using Deep BayesianNet,6th International Conference on Inventive Computation

Technologies, ICICT 2023 - Proceedings, pp. 1188–1193), **IEEE Xplore[ Scopus Indexed]**

- 21) Susmitha. **Moorthi**(2022),, “Computational Fluid Analysis of Stented Cerebral Aneurysm in Smokers”, IEEE 3rd International Conference on Intelligent Computing, Instrumentation and Control Technologies, ICICICT 2022, PP.1580 - 1587), **IEEE Xplore[ Scopus Indexed]**
- 22) Famitha, M. **Moorthi**(2022),, “Intelligent and novel multi-type cancer prediction model using optimized ensemble learning”, Computer Methods in Biomechanics and Biomedical Engineering ,**Taylor & Francis, H Index-61,SJR-0.43,SNIP 0.926,IF:1.93(AU Annexure 2022 list)[SCI & Scopus Journal]-S.No 9706**
- 23) T.Rubeshkumar,**M.Moorthi**,(2022),“ Design and Optimization of Wearable Microstrip Patch Antenna using Hybrid Fuzzy Flamingo Swarm Optimization Algorithm for RF Energy Harvesting. Iranian Journal of Science and Technology,Transaction of Electrical Engineering, (**AU Annexure 2021 list**) 2228-6179.**S.No 7418**
- 24) T.Rubeshkumar,**M.Moorthi**,(2021),“Hybrid Fabric Wearable Antenna Design and Evaluation for High Speed 5G Applications ”, **June 21, Wireless Personal Communications, Springer, H Index 65,SJR-0.43,SNIP 0.873,IF:2.01 (AU Annexure 2021 list)[SCI & Scopus Journal]** 0929-6212.
- 25) Omana, **M. Moorthi**(2021),,“ Predictive analysis and prognostic approach of diabetes prediction
  - a. with machine learning techniques”, Feb 21,**Wireless Personal Communications, Springer, H Index 65,SJR-0.43,SNIP 0.873,IF:2.01(AU Annexure 2021 list)[SCI & Scopus Journal]**.
- 26) Famitha, M. **Moorthi**(2020),, “Prediction of Human Brain Tumor Based on Machine Learning”, International Journal of Advanced Science and Technology, Vol 29(3),PP: 13635 -13645, **SNIP -0.085,SJR- 0.108 [2020 Scopus Journal]**.
- 27) I.Mohan, **M. Moorthi**(2020),, “Topic flexible aspect based sentiment analysis using minimum spanning tree with Cuckoo search”, **Springer, Journal of Ambient Intelligence and Humanized Computing**, Vol 149,pp 100–108, August 2020, **SNIP - 2.085, SJR- 0.589,H Index- 23, Impact Factor - 6.183 (AU Annexure 2020 list) [SCI Journal]**.
- 28) Thiagarajan, **M. Moorthi**(2020),, “Quality of Service based Ad hoc On-demand Multipath Distance Vector Routing protocol in mobile ad hoc network”, **Springer, Journal of Ambient Intelligence and Humanized Computing**, Vol 149,pp 90–98, April 2020, **SNIP -2.085, SJR- 0.589,H Index- 52, Impact Factor - 6.183(AU Annexure 2020 list) [SCI Journal]**.
- 29) J.Omana,**M. Moorthi**, (2020),, “Naïve Bayes based Summarizing Ruleset in Prediction of Diabetes Mellitus using Magnum Opus, 2019 Third International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC),**IEEE Xplore-March 2020. Electronic ISBN: 978-1-7281-4365-1,pp 22-29 [Scopus Indexed ]**.
- 30) **M. Moorthi**, Thiagarajan, (2019),, “Energy consumption and network connectivity based on Novel-LEACH-POS protocol networks”, **Elsevier,Computer Communications**, Vol 149,pp 90- 98, **SNIP -1.547,SJR- 1.3,H Index-109, IF-5.3(AU Annexure 2019 list) [SCI Journal].S.No-3581**
- 31) T.K.Agita, **M. Moorthi** (2019),, “Automatic liver cancer segmentation using active contour model and RF classifier , International Journal of Innovative Technology and

Exploring Engineering,, Vol 8(10),pp 1139–1142. August 2019. [**Scopus Indexed Journal**].

- 32) M.Malathy, **M.Moorthi**(2019),“Speech Enhancement via Smart Larynx of Variable Frequency for Laryngectomee Patient for Tamil Language Syllables Using RADWT Algorithm, Vol 38(227),PP 1-27, **Circuits Systems and Signal Processing(CSCP), Springer, SNIP -1.001,SJR- 0.53,H Index-45, IF-2.3, AU Annexure 2019 list)** [SCI Journal]. **S.No 6553**
- 33) V.R.Kavitha, **M.Moorthi**(2019),“ A quality of service load balanced connected dominating set–stochastic diffusion search (CDS–SDS) network backbone for MANET, **Computer Networks, Elsevier,Vol 151(1),PP 124-131,Jan 2019,SNIP -1.51,SJR- 0.5, IF-5.6,H Index-113. (AU Annex 2019 list)** [SCI Journal].**S.No 715**
- 34) Madhusudhanan.S, **M.Moorthi** (2018),“Optimised Fuzzy Technique for sentiment Analysis”, **Cluster Computing, Springer, Print ISSN: :1386-7857, SNIP -1.51,SJR- 0.564, IF-4.4,h5 Index-26,pp 1–11,(Anna university Annexure 2018 list)** [SCI Journal].
- 35) P.Malathy, **M.Moorthi**, (2018) ‘Speech Enhancement using Auditory Masking and GMM based Voice Conversion, 4<sup>th</sup> International conference on Advance in Electrical & Electronics, Information, Communication & Bio Informatics (AEEICB – 2018 ) pp 15-22,**IEEE Digital library[Scopus Indexed ]**.
- 36) M. Madhu, **M.Moorthi**, S.Sathishkumar (2017), A novel approach for new-born authentication and verification using multi biometric Features, Biomedical Research, vol.28, issue 3, pp 1-6., **SNIP:0.31,SJR: 0.14, IF=0.218,H Index:13, h5 index: 12 (Anna university Annexure I 2016 list)** [SCI Journal].
- 37) T.Rubeshkumar, **M.Moorthi**, (2017) ‘Review on 4G Antenna design For LTE application, 3<sup>rd</sup> International conference on Advance in Electrical& Electronics, Information, Communication & Bio Informatics (AEEICB – 2017 ) pp 476-478, **IEEE Digital library[Scopus Indexed ]**.
- 38) R Thiagarajan, **M Moorthi** (2017) ‘Efficient routing protocols for mobile ad hoc network, , 3<sup>rd</sup> International conference on Advance in Electrical& Electronics, Information, Communication & Bio Informatics (AEEICB – 2017 ) pp 427-431, **IEEE Digital library[Scopus Indexed ]**.
- 39) **M.Moorthi**, M.Madhu and S.Sathishkumar(2016) ‘Recognition of Facial Expression using Bit by Bit Scanning and Probabilistic Matching, 2<sup>nd</sup> International conference on Advance in Electrical& Electronics, Information, Communication & Bio Informatics (AEEICB-2016 ,pp 373 - 377, DOI: 10.1109/AEEICB.2016.7538311, **IEEE Digital library[SCI & Scopus Indexed ]**.
- 40) **Moorthi M.**, Amutha **R.** (2015) ‘Implementation of an Improved Model for Medical Images Using PIC Microcontroller in Telemedicine,’ Studies On Ethno-Medicine, **Taylor & Francis, ISSN: 0973-5070, Vol.9, Issue 3, pp 411-418. (Anna university Annexure I 2016 list) IF: 0.41. H Index: 8, SNIP: 107, SJR: 0.27, Indexed by Scopus & Indexed in Web of Science. [SSCI Journal]**
- 41) **Moorthi M.**, Amutha **R.** (2015) ‘ An Intelligent Method for Compression of Medical Images in Telemedicine’, international Journal of Pharma and Bio Sciences, **ISSN: 0975-6299, Vol.6, Issue 2, pp 444 - 451(Anna university Annexure II 2015 list) H Index: 8, SJR: 0.33,Scopus.**



- 42) **Moorthi M., Amutha R.** (2015) 'Region Based Medical Image Compression in Teleradiology', International Journal of Telemedicine and Clinical Practices, **Inderscience Publisher**, ISSN: 2052-8442 .Vol.1, Issue1,pp 47-63.
- 43) **Moorthi M., Amutha R.** (2015) 'Progressive Quality Coding for Compression of Volumetric images in Telemedicine', International Journal of Telemedicine and Clinical Practices, **Inderscience Publisher**, ISSN: 2052-8442.Vol.1(2),pp 125-140.
- 44) **Moorthi M., Amutha R.** (2014) 'A Novel Hybrid Compression Algorithm for Medical Images in Telemedicine',**Emerging Research in Computing, Information, Communication and Applications, Vol.3**, pp 687-694, **Elsevier**,ISBN:978-935-107-2638[**Scopus Indexed** ]
- 45) **Moorthi M., Amutha R.** (2013) 'High Quality Approach for near lossless compression of medical images in Telemedicine', Scientific Research and Essays, Academic Journals, ISSN 1992-2248, Nigeria,Vol.8, No. 41, pp. 2022-2030. (**Anna university Annexure II 2015 list**) **H Index: 18, SJR: 0.172, SNIP: 0.74, h5-index:24, Indexed by Scopus.**
- 46) **Moorthi M., Amutha R.** (2012) 'An Improved Algorithm for Medical Image Compression', Global Trends in Information Systems and Software Applications, Communications in Computer and Information Science, **Springer Berlin Heidelberg**, Vol 270, pp 451-460.ISBN No:978-3-642-29216-3 [**SCI& Scopus Indexed** ]
- 47) **Moorthi M., Amutha R.** (2012) 'A Modified Medical Image Coder with Contrast Enhancement', European Journal of Scientific Research, United Kingdom, Vol. 85, Issue 2, pp 207-217.(**Anna university Annexure II 2013 list**),**H Index: 26,SJR:0.16, Indexed by Scopus.**
- 48) **Moorthi M., Amutha R.** (2012) 'A Near Lossless Compression Method for Medical Images', IEEE-International Conference on Advances in Engineering, Science and Management (ICAESM), pp 39-44. **IEEE Digital library [Scopus Indexed ]**.
- 49) **Moorthi M., Amutha R.** (2012) 'Medical Image Compression using Adaptive Neural Network', IEEE-International Conference on Emerging Trends in Science, Engineering and Technology (INCOSET), pp 222- 227. **IEEE Digital library[Scopus Indexed ]**.
- 50) **Sathish Kumar S., Moorthi M., Madhu M., Amutha R.** (2010) 'An Improved Method of Segmentation Using Fuzzy-Neuro Logic', IEEE-Second International Conference on Computer Research and Development, pp 671-675. **IEEE Computer society, ACM Digital library([Scopus Indexed ]**.
- 51) **Moorthi M., Madhu M., Sathish Kumar S**(2009) ' Hand identification using fuzzy feature matching (FFM), National Conference on Signal and Image Processing Applications, Maharashtra, India, pp 52-59,**IET Digital library.**