

**RAMCO INSTITUTE OF TECHNOLOGY**

**Department of Electronics and Communication Engineering**

**B 2.5. Research and Development**

Name of the faculty	Academic Research			
	Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.		Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute	
	As provided in SAR	After evaluation (Till the date of Compliance report)	As provided in SAR	After evaluation (till the date of compliance report)
Dr.L.Ganesan		4	-	4 (2 transferred, 1 awarded, 1 Guiding)
Dr.C.Arunachalaperumal	-	1	-	11 (Guiding)
Dr.S.Periyamayagi	3	4	-	-
Dr.K.Ragavan	-	7	-	-
Dr.A.Azhagu Jaisudhan Pazhani	1	25	-	-
Dr.S.VairaPrakash	-	14	-	-
Dr.A.Lakshmi	-	11	-	-
Mr.B.Kannan	1	11	-	-
Mrs.G.Gnana Priya	0	5	-	-
Mrs.R.Ramalakshmi	0	6	-	-
Mrs.V.SrirengaNachiyar	0	6	-	-
Mrs.S.Jeeva	1	1	-	-
Mr.D.Gopinath	-	4	-	-
Mr.P.Gunasekaran	-	8	-	-
Mr.A.Ramesh Babu	-	7	-	-
Mr.R.Deiva Nayagam	-	7	-	-
Mr.G.Sivakumar	1	6	-	-
Mr.P.Venkatesh	1	5	-	-
Ms.S.Harini Shriram	-	2	-	-
Dr.R.Rajalakshmi	-	15	-	-

Mrs.G.Subhashini	-	3	-	-
Ms.L.Krishna Kumari	-	6	-	-
Ms.R.Chandralekha	-	4	-	-

## B. 2.5 Research and Development

### Dr. Ganesan. L

#### As provided in SAR

➤ Nil

#### After Evaluation ( till the date of compliance report)

1. Ganesan, L., Umarani, C., Kaliappan, M., Vimal, S., Kadry, S., Nam, Y. **Texture Image Analysis for Larger Lattice Structure Using Orthogonal Polynomial Framework** (2022) *Information Technology and Control*, 51 (3), pp. 531-544. (SCI with IF: 0.813)
2. Rani,U., Ganesan, **A statistical design of experiments based approach using larger grid size for performing supervised texture Image classification**, AIP Conference proceedings,2023.
3. Rani,U., Ganesan, **A large grid size based statistical approach for texture segmentataion**, AIP Conference proceedings,2023.
4. Suresh Kumar, P., Ganesan, L., UmaRani, C., Stalin, B, Sasikumar, C., Rajan, S.T.K., Borek, W., **Effect of strain rate on fractography texture descriptor of AA6063/(Si3N4)x/(Cu(NO3)2)y (x=12%, y= 2-6%) composite after multiple ECAP passes: second order statistical texture analysis conjunction with regression analysis** , Journal of Material Research and Technology, 23, pp. 2750-2783.(2023).

### Dr.C.Arunachalaperumal

#### As provided in SAR

➤ Nil

#### After Evaluation ( till the date of compliance report)

1. Subha, T.D., Arunachalaperumal, C.A **hybrid CapSA-WHO method used for performance enhancement of tandem perovskite solar cell**(2023) *Expert Systems with Applications*, 230, art. no. 120554, . (SCI with IF: 8.665)

### Dr.S.Periyanayagi

#### As provided in SAR

1. Mydhili S.K, Periyanayagi S, Baskar S, Mohamed Shakeel P, Hariharan P.R.“Machine learning based multi scale parallel K-means++ clustering for cloud assisted internet of things”, Springer Science+ Business Media, September 2019. DOI:

<https://doi.org/10.1007/s12083-019-00800-9> [Web of Science][SCOPUS][SCI] [UGC Approved]

2. Baskar S, Periyanyagi S, Mohamed Shakeel P, Sarma Dhulipala V.R “An Energy Persistent Range- dependent Regulated transmission communication model for vehicular network applications”, Elsevier Computer Networks, Page No:144-153, 152, January 2019. [Web of Science][SCOPUS][SCI] DOI: <https://doi.org/10.1016/j.comnet.2019.01.027> , ISSN No: 1389-1286
3. Periyanyagi S, Sumathy V “Swarm Based Defense technique for tampering and cheating attack in WSN using CPHS”, Personal and ubiquitous computing, Springer, DOI 00779-018-1162-1, ISSN 1617-4909, Volume 22, Page No: Springer, 2018. DOI: <https://doi.org/10.1007/s00779-018-1162-1> .[Web of Science]

#### **After Evaluation ( till the date of compliance report)**

1. Periyanyagi, S., Nandini, V., Basarikodi, K., Sumathy, V. **IOT Assisted Biomedical Monitoring Sensors for Healthcare in Human** (2023) *Computer Systems Science and Engineering*, 45 (3), pp. 2853-2868. (SCI with IF: 4.397)
2. Azhagu Jaisudhan Pazhani, A., Periyanyagi, S. **A novel haze removal computing architecture for remote sensing images using multi-scale Retinex technique** (2022) *Earth Science Informatics*, 15 (2), pp. 1147-1154. (SCI with IF: 2.705)
3. Periyanyagi, S., Gnana Priya, G., Chandrasekar, T., Sumathy, V., Raja, S.P. **Artificial intelligence and IoT-based biomedical sensors for intelligent cattle husbandry systems** (2022) *International Journal of Wavelets, Multiresolution and Information Processing*, 20 (6), art. no. 2250026, . (SCI with IF: 1.276)
4. Periyanyagi, S., Manikandan, A., Muthukrishnan, M., Ramakrishnan, M. **BDoor App- Blood Donation Application using Android Studio** (2021) *Journal of Physics: Conference Series*, 1917 (1), art. no. 012018.

#### **Dr.K.Ragavan**

##### **As provided in SAR**

➤ Nil

#### **After Evaluation ( till the date of compliance report)**

1. Ragavan, K., Venkatalakshmi, K., Vijayalakshmi, K. **Traffic video-based intelligent traffic control system for smart cities using modified ant colony optimizer** (2021) *Computational Intelligence*, 37 (1), pp. 538-558. (SCI with IF: 2.142)
2. K.Ragavan, K.Venkatalakshmi,K.Vijayalakshmi,**A Case Study of Key Frame Extraction in Video Processing** (2020), *Perspectives in Communication, Embedded-Systems andSignal-Processing (PiCES) –An International Journal*, 4(4) pp. 17-20. (UGC/Others)
3. Ragavan, K., Jeeva, S., Krishna Kumar, M., Venkatalakshmi, K. **Safe application for emotion detection in sustainable teaching using deep learning** (2020) *Journal of Green Engineering*, 10 (9), pp. 5118-5131. (Scopus)
4. R.Ramalakshmi , K.Ragavan , G.Gnana Priya , V.SrirengaNachiyar L.Krishna Kumari

- S.Tamil Selvi, **Performance Evaluation of Different MIMO Systems**, (2023) *Journal of Pharmaceutical Negative Results*, 10.47750/pnr.2023.14.S02.160 (UGC/Others)
5. Ragavan, K., Ramalakshmi, R., Srirenganachiyar, V., Priya, G.G., Jeyageetha, K. **Smart Health Monitoring System in Intensive Care Unit using Bluetooth Low Energy and Message Queuing Telemetry Transport Protocol** (2023) *Proceedings - 5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023*, pp. 284-291.
  6. Leelavathy K.R., Nageshwaran V, Venkatalakshmi K, Ragavan K, **Intelligent Transport of E-Waste: A Case Study in Indian Context** (2022), *Current Advances in Civil Engineering Research*, Integrated Publications, pp 99-117
  7. L.Krishnakumari, R.Ramalakshmi, V.SrirengaNachiyar, K.Ragavan, K.Ramalakshmi, **Analysis of Liver Tumor Segmentation Using Deep Resunet** (2023) *IEEE International Conference on Artificial Intelligence and Smart Energy (ICAIS 2023)*2023, pp. 665-668.

### **Dr.A.Azhagu Jaisudhan Pazhani**

#### **As provided in SAR**

1. Azhagu Jaisudhan Pazhani A, Vasanthanayaki C, “Design and Implementation of Computationally Efficient Arithmetic Unit”, *Journal of Electrical Engineering*, Vol:19, Edition:3, 2019. [SCOPUS] [UGC Approved]

#### **After Evaluation ( till the date of compliance report)**

1. Azhagu Jaisudhan Pazhani, A., Kannan, B., Gunasekaran, P., Gayathri, J., Manjupriya, R. **Smart wearable device for employee monitoring system using green IoT** (2020) *Journal of Green Engineering*, 10 (9), pp. 4885-4895. (Scopus)
2. Azhagu Jaisudhan Pazhani A, Vasanthanayaki C, **FPGA Implementation of Error Tolerant and Energy Efficient Convolutional Neural Network with Modified Flagged Binary Adder** (2020), *Tierarztliche Praxis*, 40 pp. 2350 – 2359. (UGC/Others)
3. G.Nirmala, S.Prabu, A.Azhagu Jaisudhan Pazhani S.Vairaprakash, **Dimensionality Reduction Using Principal Component Analysis in Supervised Machine Learning Techniques** (2020), *Bioscience Biotechnology Research Communications*, 13 pp. 326-331 (UGC/Others).
4. Azhagu Jaisudhan Pazhani, A., Vasanthanayaki, C. **Object detection in satellite images by faster R-CNN incorporated with enhanced ROI pooling (FrRNet-ERoI) framework** (2022) *Earth Science Informatics*, 15 (1), pp. 553-561. (SCI with IF: 2.705)
5. Azhagu Jaisudhan Pazhani, A., **Computation unit architecture for satellite image processing systems** (2022) *Earth Science Informatics*, 15 (1), pp. 185-195. (SCI with IF: 2.705)
6. Khalaf, O.I., Romero, C.A.T., Azhagu Jaisudhan Pazhani, A., Vinuja, G. **VLSI Implementation of a High-Performance Nonlinear Image Scaling Algorithm** (2021) *Journal of Healthcare Engineering*, 2021, art. no. 6297856, . (SCI with IF: 3.822)
7. KDV.Prasad, D.Pallanikumar, Dankan Gowda, Nazziya Hussain, A.Azhagu Jaisudhan Pazhani and Anil Kumar, **A Novel Method of Enhancing Security Solution and Energy Efficiency of IOT Protocols**(2023), *International Journal on Recent and Innovation Trends in Computing and Communication*, 11(4) pp (Scopus)
8. **Modified Binary Divider** (2022) *Circuits, Systems, and Signal Processing*, 41 (6), pp. 3350-3371. (SCI with IF: 2.311)

9. **21.** Azhagu Jaisudhan Pazhani, A., Periyamayagi, S. **A novel haze removal computing architecture for remote sensing images using multi-scale Retinex technique** (2022) *Earth Science Informatics*, 15 (2), pp. 1147-1154. (SCI with IF: 2.705)
10. Jamuna Rani, M., Azhagu Jaisudhan Pazhani, A. **Computational efficient compression scheme for satellite images** (2022) *Earth Science Informatics*, 15 (3), pp. 1723- 1736. (SCI with IF: 2.705)
11. Singh, G., Appadurai, J.P., Perumal, V., Kavita, K., Ch Anil Kumar, T., Prasad, D., Azhagu Jaisudhan Pazhani, A., Umamaheswari, K. **Machine Learning-Based Modelling and Predictive Maintenance of Turning Operation under Cooling/Lubrication for Manufacturing Systems** (2022) *Advances in Materials Science and Engineering*, 2022, art. no. 9289320, . (SCI with IF: 2.098)
12. Azhagu Jaisudhan Pazhani, A., Samuel, T.S.A. **High-Speed and Area-Efficient Modified Binary Divider** (2022) *Circuits, Systems, and Signal Processing*, 41 (6), pp. 3350-3371. (SCI with IF: 2.311)
13. Gowda V, D., Sharma, A., L, R., Rahman, M., Yasmin, G., Sarma, P., Azhagu Jaisudhan Pazhani A., **A novel method of data compression using ROI for biomedical 2D images**(2022) *Measurement: Sensors*, 24, art. no. 100439, . (Scopus)
14. Nallamilli P.G. Bhavani , Ganapathy Senthilkumar, Shahnazeer Chembalakkat Kunjumohamad , A.Azhagu Jaisudhan Pazhani , Ravi Kumar, Abolfazl Mehbodniya , Julian L. Webber, **Real-Time Inspection in Detection Magnetic Flux Leakage by Deep Learning Integrated with Concentrating Non-Destructive Principle and Electromagnetic Induction**(2022),*IEEE Instrumentation & Measurement Magazine*,25(7) pp 48-54. (SCI with IF: 1.548)
15. Azhagu Jaisudhan Pazhani A., Gunasekaran, P., Shanmuganathan, V., Lim, S., Madasamy, K., Manoharan, R., Verma, A. **Peer–Peer Communication Using Novel Slice Handover Algorithm for 5G Wireless Networks** (2022) *Journal of Sensor and Actuator Networks*, 11 (4), art. no. 82. (ESCI)
16. Gunasekaran, P., Azhagu Jaisudhan Pazhani A., Raj, T.A.B. **A Novel Method for Multiple Object Detection on Road Using Improved YOLOv2 Model** (2022) *Informatica (Slovenia)*, 46 (4), pp. 567-574. (ESCI)
17. R. Narmadha; Pradeep Kumar Rangi; A. Azhagu Jaisudhan Pazhani; V. Prajval, "Analysis of the digital trends and IoT procedural scheme on traditional banking system", AIP Conf. Proc. 2821, 040031 (2023) <https://doi.org/10.1063/5.0158511>
18. Kannan B, AzhaguJaisudhan Pazhani A, Gunasekaran P and Rameshbabu A, “Smart Sensor System”, SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Online.
19. Rameshbabu A, AzhaguJaisudhan Pazhani A, Gunasekaran P and Kannan B, “ Design of Portable Health Care Monitoring System Using Iot” SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Online.
20. Gunasekaran P, AzhaguJaisudhanPazhani A, Rameshbabu A,Kannan B, “Role of wavelength Division Multiplexing in Optical Communication”, MOOCN, Scrivener Publishing
21. Vijayakumar S, AzhaguJaisudhan Pazhani, “Energy Harvesting Forms In Self-Powered Sensors And Energy Harvesting Solutions for Iot Devices” SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Online.
22. Sivakumar G, AzhaguJaisudhan Pazhani and Marichamy P “Trends in Distributed Computing” SPAIoT-2021 (Self-Powered AIoT Systems,Taylor & Francis Publication)
23. AzhaguJaisudhan Pazhani and Vinodh Kumar A, “AI-based ULP Microprocessors and Microcontrollers” SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis

Publication) – Online.

24. P Gunasekaran, A Azhagu Jaisudhan Pazhani, A Rameshbabu, B Title: Role of Wavelength division multiplexing in optical Communication Journal Modeling and Optimization of Optical Communication Networks, Publisher John Wiley & Sons, 2023
25. Sharma, A., Prasad, K.D.V., Chakrasali, S.V., Gowda V, D., Kumar, C., Chaturvedi,,Pazhani, A.A.J.**Computer vision based healthcare system for identification of diabetes & its types using AI**(2023) *Measurement: Sensors*, 27, art. no. 100751, . (Scopus)

### **Dr.S.Vairaprakash**

#### **As provided in SAR**

➤ Nil

#### **After Evaluation ( till the date of compliance report)**

1. G.Nirmala, S.Prabu, A.AzhaguJaisudhanPazhani S.Vairaprakash,**Dimensionality Reduction Using Principal Component Analysis in Supervised Machine Learning Techniques** (2020),*Bioscience Biotechnology Research Communications*, 13 pp. 326-331 (UGC/Others).
2. Kamalam, G.K., Joshi, S., Maheshwari, M., Selvan, K.S., Jamal, S.S., Vairaprakash, S., Alhassan, M. **Augmented Reality-Centered Position Navigation for Wearable Devices with Machine Learning Techniques** (2022) *Journal of Healthcare Engineering*, 2022, art. no. 1083978, . (SCI with IF: 3.822)
3. 5. Sunanthini, V., Deny, J., Govinda Kumar, E., Vairaprakash, S., Govindan, P., Sudha, S., Muneeswaran, V., Thilagaraj, M. **Comparison of CNN Algorithms for Feature Extraction on Fundus Images to Detect Glaucoma** (2022) *Journal of Healthcare Engineering*, 2022, art. no. 7873300, . (SCI with IF: 3.822)
4. S.Vairaprakash, A.Shenbagavalli, S.Rajagopal, **An efficient watermarking based matrix manipulation and optimization based Cryptographic method for Privacy preservation in Biomedical Data** (2021)*Journal of Medical Imaging and Health Informatics*.11 pp 2928-2936. (UGC/Others)
5. S.Vairaprakash, Ahilan Appathurai, Gayathri **Classification of Alzheimer’s Disease Stages Using A Deep Aquila Convolutional neural Network**, (2022),*Neuroquantology*, 20(6) pp (UGC/Others)
6. Vairaprakash S, Alagarsamy, M., Thangaraju, D., Mani, D.P. **Classification of COVID-19 Patient Based on Multilayer Perceptron Neural Networks Optimized with Garra Rufa Fish Optimization Using CT Scan Images** (2023) *International Journal of Pattern Recognition and Artificial Intelligence*, 37 (6), art. no. 2357003, . (SCI with IF:1.261)
7. S. Vairaprakash, Jayakumar Karuppaiah, B. Buvaneshwari, and Abdullah Alghamdi, **Removal of Salt and Pepper Noise Using Hybrid Adaptive Switching Median Filter with Ant Colony Optimization Technique in Nano Electronic Applications** (2023) *Journal of Nano electronics and Optoelectronics* <https://doi.org/10.1166/jno.2023.3365>. (UGC/Others)
8. B.Paulchamy, C.Natarajan, S.Vairaprakash, A.Purushothaman, **Implementation of Lane Marking Detection Algorithm for FPGA Using Soft Computing Technique** (2023), *Gradiva Review Journal*, DoI: 10.37897.GRJ.2022.V9I6.23.513143

9. Rajagopal, S., Ramakrishnan, T., Vairaprakash, S. **Anatomical Region Detection Scheme Using Deep Learning Model in Video Capsule Endoscope** (2022) *Intelligent Automation and Soft Computing*, 34 (3), pp. 1927-1941. (SCI with IF: 3.401)
10. B Paulchamy, S Chidambaram, S Vairaprakash, AN Duraivel, **Equalization of Finite-Alphabet MMSE for All-Digital Massive MU-MIMO mm-Wave Communication**, (2021) *Journal of Physics: Conference Series*, 1964, art. no. 062049.
11. M. Pondurai, Mr. L. K. Balajivignesh, Ms. R. Chandralekha, Dr. S. Vairaprakash, K. Neerathi, and M. Paranitharan, **Rectangular Microstrip Patch Array Antenna for Short Wave Radio Band Applications** (2023) *IEEE International Conference on Artificial Intelligence and Smart Energy (ICAIS 2023)*2023, pp. 226-228
12. G. Subhashini, S. Vairaprakash, R. Chandralekha, R. Rajalakshmi, A. S. Amudhadevi and R. Ishwarya, "Modelling and Analysis of different types of TSV for Three Dimensional Integrated Circuits," *2023 International Conference on Networking and Communications (ICNWC)*, Chennai, India, 2023, pp. 1-10, doi: 10.1109/ICNWC57852.2023.10127533
13. Harini Shriram S, Dr. S. Vairaprakash, G. Subhashini, Venkatesh P, and R. Chandralekha A presented a paper titled "REDUCTION OF FWM IN WDM OPTICAL NETWORK FOR INCREASING FIBER CAPACITY" at the 4th International Conference on Smart Electronics and Communication (ICOSEC) 2023 by kongunadu College of Engineering and Technology Trichy, Tamil nadu, India, on September 20–22, 2023.
14. S.Vairaprakash1 and S. Rajagopal published book chapter titled" Brain–Computer Interface-Based Real-Time Movement of Upper Limb Prostheses Topic: Improving the Quality of the Elderly with Brain-Computer Interface" in the book "Brain Computer Interface" Page no:179-204,ISBN: 978-1-119-85720,Publisher:Scriver-Wiley

#### **Dr.A.Lakshmi**

#### **As provided in SAR**

➤ Nil

#### **After Evaluation ( till the date of compliance report)**

1. Thenmoezhi, N., Perumal, B., Lakshmi, A. **Clustering-based image segmentation for optimal image fusion using CT and MRI images** (2023) *International Journal of Modeling, Simulation, and Scientific Computing*, art. no. 2441001, . (ESCI)
2. Bhuvaneshwary.N, Deny.J, Lakshmi.A,**Hybrid optimized verification methodology using deep reinforcement neural network** (2023), *Journal of Intelligent &Fuzzy Systems*,DOI: 10.3233/JIFS-232132(**SCI with IF: 1.737**)
3. Lakshmi, A., Rajasekaran, M.P., Jeevitha, S., Selvendran, S. **An Adaptive MRI-PET Image Fusion Model Based on Deep Residual Learning and Self-Adaptive Total Variation** (2022) *Arabian Journal for Science and Engineering*, 47 (8), pp. 10025- 10042. (SCI with IF: 2.807)
4. Ramkumar, M., Lakshmi, A., Pallikonda Rajasekaran, M., Manjunathan, A. **Multiscale Laplacian graph kernel features combined with tree deep convolutional neural network for the detection of ECG arrhythmia** (2022) *Biomedical Signal Processing and Control*, 76, art. no. 103639, . (SCI with IF: 5.076)

5. N. Bhuvaneshwarya, J. Denya and A. Lakshmi, "Hybrid Optimized Verification Methodology using Deep Reinforcement Neural Network" *Journal of Intelligent & Fuzzy Systems* 45 (2023) 3715–3728 DOI:10.3233/JIFS-232132, IOS Press\*(SCI)
6. Dhanusha, P.B., Muthukumar, A., Lakshmi, A. **A Novel Approach for Early Intervention of Retinal Disorders Using Machine Learning Techniques** (2022) *Lecture Notes in Networks and Systems*, 436, pp. 345-355.
7. Bhuvaneshwary, N., Lakshmi, A., Bhuvaneshwari, E., Ahmed, P.J., Vaishnavi, M. **Multi Modal Image Fusion Technique For Detecting Brain Tumor** (2022) *Proceedings - 6th International Conference on Computing Methodologies and Communication, ICCMC 2022*, pp. 1364-1371.
8. Dargar, S.K., Gupta, A., Sabir, M., Lakshmi, A. **Design of U-Slot Microstrip Patch Antenna for Wireless Applications** (2022) *2022 2nd International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies, ICAECT 2022*, DOI:10.1109/ICAECT54875.2022.9807838
9. N. Bhuvaneshwary, J. Deny and A. Lakshmi, "**Exploration on Reusability of Universal Verification Methodology**," *2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)*, Greater Noida, India, 2022, pp. 1865-1868
10. Dhanusha, P.B., Muthukumar, A., Lakshmi, A. **Super-resolution of Retinal Fundus Images Using Generative Adversarial Networks** (2022) *Proceedings - 2nd International Conference on Next Generation Intelligent Systems, ICNGIS 2022*, . DOI: 10.1109/ICNGIS54955.2022.10079882
11. Dhanusha P.B, Muthukumar A, Lakshmi A presented a paper titled “A Novel approach for Early Invention of Retinal Disorders using Machine Learning” in virtual 6th International Conference on Inventive Systems and Control (ICISC 2022) (SPRINGER), JCT College of Engineering and Technology, Coimbatore, on 06.01.2022 & 07.01.2022. published in Springer Lecture Series. Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 436). pp 345–355. Published on 02 August 2022. [https://link.springer.com/chapter/10.1007/978-981-19-1012-8\\_23](https://link.springer.com/chapter/10.1007/978-981-19-1012-8_23)

## Mr.B.Kannan

### As provided in SAR

1. Kannan B, “Benign and Malignant Brain Tumor Pre-processing and Segmentation Techniques: A Survey”, *International Journal of Scientific Research and Review*, Vol:8, Issue 4, Page No:264-270, April 2019, ISSN No: 2279-543X. DOI:16.10089/IJSRR [UGC Approved]

### After Evaluation ( till the date of compliance report)

1. Ashokkumar, N., Krishnagandhi, P., Kannan, B., David Solomon Raju, Y. **Smart farming field observation using embedded systems**(2020) *International Journal of Electrical Engineering and Technology*, 11 (4), pp. 241-245. (Scopus)
2. Azhagu Jaisudhan Pazhani, A., Kannan, B., Gunasekaran, P., Gayathri, J., Manjupriya, R. **Smart wearable device for employee monitoring system using green IoT** (2020) *Journal of Green Engineering*, 10 (9), pp. 4885-4895. (Scopus)

3. B.Kannan, S.Karthigai Lakshmi, **Classification and segmentation of brain tumour using modified convolutional neural network** (2022) *Neuroquantology*,20(6) pp 6249-6268 (UGC/Others)
4. S.B. Mohan, B. Kannan, D. Ravikumar, C. Sivakumaran, **Hybrid Multi-kernel SVM Algorithm for microaneurysm recognition in Color Fundus Images** (2023), *International Journal of Medical Engineering and Informatics*, 10.1504/IJMEI.2023.10053229.(Scopus)
5. S. Durga Prasad, K.S.N. Murthy, B. Kannan, C. Sivakumaran, **Medical image registration and automatic hippocampus segmentation through convolutional neural network** (2023), *International Journal of Medical Engineering and Informatics*, DOI: 10.1504/IJMEI.2023.10055511. (Scopus)
6. B. Kannan, S. Karthigai Lakshmi, **Brain cancer analysis using deep learning architecture on MRI brain image**(2022), *International Journal of Medical Engineering and Informatics*, DOI: 10.1504/IJMEI.2022.10048344
7. Ravi Kumar, R. Prabha, B. Kannan, T.J. Nagalakshmi, Sheshang D. Degadwala, **Auditory model system to recognise Alzheimer's diseases: speech signal analysis**(2022), *International Journal of Medical Engineering and Informatics*, DOI: 10.1504/IJMEI.2022.10049259. (Scopus)
8. Dhanasekaran, S., Gomathi, P., Renaldo maximus, A., Krishnan, T., Kannan, B. **Solar Tree based Smart City Street Light Control System using IoT BLYNK Platform** (2022) *International Conference on Automation, Computing and Renewable Systems, ICACRS 2022 - Proceedings*, pp. 284-290.
9. Kannan B, AzhaguJaisudhan Pazhani A, Gunasekaran P and Rameshbabu A, “Smart Sensor System”, SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Online.
10. Rameshbabu A, AzhaguJaisudhan Pazhani A, Gunasekaran P and Kannan B, “ Design of Portable Health Care Monitoring System Using Iot” SPAIoT-2021 (Self-Powered AIoT Systems, Taylor & Francis Publication) – Online.
11. Gunasekaran P, AzhaguJaisudhanPazhani A, Rameshbabu A,Kannan B, “Role of wavelength Division Multiplexing in Optical Communication”, MOOCN, Scrivener Publishing

**Mrs. Gnana Priya, G**

**As provided in SAR**

➤ Nil

**After Evaluation ( till the date of compliance report)**

1. Gnana Priya, G., Balasubadra, K. **Spectrum sensing in cognitive radio networks: A theoretical aspect** (2020) *Journal of Green Engineering*, 10 (9), pp. 6423-6434. (Scopus)
2. R.Ramalakshmi , K.Ragavan , G.Gnana Priya , V.SrirengaNachiyar L.Krishna Kumari S.Tamil Selvi, **Performance Evaluation of Different MIMO Systems**, (2023) *Journal of Pharmaceutical Negative Results*, 10.47750/pnr.2023.14.S02.160 (UGC/Others)
3. Periyannayagi, S., Gnana Priya, G., Chandrasekar, T., Sumathy, V., Raja, S.P. **Artificial intelligence and IoT-based biomedical sensors for intelligent cattle husbandry systems** (2022) *International Journal of Wavelets, Multiresolution and Information Processing*, 20 (6), art. no. 2250026, . (SCI with IF: 1.276)

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5. Ragavan, K., Ramalakshmi, R., Srirenganachiyar, V., Priya, G.G., Jeyageetha, K. **Smart Health Monitoring System in Intensive Care Unit using Bluetooth Low Energy and Message Queuing Telemetry Transport Protocol** (2023) *Proceedings - 5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023*, pp. 284-291.

**Mrs. R.Ramalakshmi**

**As provided in SAR**

➤ Nil

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2. Gopinath, D., Vijayakumar, S., Ramalakshmi, R., Jeevalingesh, M., Janarthanan, D. **Implementation of internal and external border gateway protocol for efficient traffic flow using MPLS L3 VPN in green network** (2020) *Journal of Green Engineering*, 10 (9), pp. 5478-5486. (Scopus)
3. R.Ramalakshmi , K.Ragavan , G.Gnana Priya , V.SrirengaNachiyar L.Krishna Kumari S.Tamil Selvi, **Performance Evaluation of Different MIMO Systems**, (2023) *Journal of Pharmaceutical Negative Results*, 10.47750/pnr.2023.14.S02.160 (UGC/Others)
4. L.Krishnakumari, R.Ramalakshmi, V.SrirengaNachiyar, K.Ragavan, K.Ramalakshmi, **Analysis of Liver Tumor Segmentation Using Deep Resunet** (2023) *IEEE International Conference on Artificial Intelligence and Smart Energy (ICAIS 2023)*2023, pp. 665-668.
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6. Ramalakshmi.R published a book chapter titled "Dynamic Spectrum Sharing Using Cognitive Radio Networks in 5G Technology" in *Advances in Computing, Electrical, Electronics, Mechanical and Communication Sectors* published by Central West Publishing in July 2023.

**Mrs.V.SrirengaNachiyar**

**As provided in SAR**

➤ Nil

**After Evaluation ( till the date of compliance report)**

1. Srirenga Nachiyar, V., Sivakumar, G., Sivasankari, R., Subhashini, E., Yamini, L. **Cloud based food waste management using green IOT** (2020) *Journal of Green Engineering*, 10 (9), pp. 5313-5321. (Scopus)

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**Mrs.S.Jeeva**

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**Mr.D.Gopinath**

**As provided in SAR**

➤ Nil

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**Mr.P.Gunasekaran**

**As provided in SAR**

➤ Nil

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**Mr.A.Ramesh Babu**

**As provided in SAR**

➤ Nil

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### **Mr.R. Deiva Nayagam**

#### **As provided in SAR**

➤ Nil

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## Mr.G.Sivakumar

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## Mr.P.Venkatesh

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5. Harini Shriram S, Dr. S. Vairaprakash, G. Subhashini, Venkatesh P, and R. Chandralekha A presented a paper titled "REDUCTION OF FWM IN WDM OPTICAL NETWORK FOR INCREASING FIBER CAPACITY" at the 4th International Conference on Smart Electronics and Communication (ICOSEC) 2023 by kongunadu College of Engineering and Technology Trichy, Tamil nadu, India, on September 20–22, 2023

**Ms.S.Harini Shriram**

**As provided in SAR**

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**Dr.R.Rajalakshmi**

**As provided in SAR**

➤ Nil

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10. G. Subhashini, S. Vairaprakash, R. Chandralekha, R. Rajalakshmi, A. S. Amudhadevi and R. Ishwarya, "**Modelling and Analysis of different types of TSV for Three Dimensional Integrated Circuits**," *2023 International Conference on Networking and Communications (ICNWC)*, Chennai, India, 2023, pp. 1-10, doi: 10.1109/ICNWC57852.2023.10127533.
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13. L Krishna kumari,R Rajalakshmi published a book chapter titled "Energy Aware protocols and standards in IoT enabled Healthcare" in *AI and IoT based Technologies for Precision Medicine*,Alex Khang,Published by IGI Global ,Hershey,Pennsylvania,USA in October 2023.
14. L Krishna kumari, R.Rajalakshmi published a book chapter titled "Location Tracking and Health Monitoring Systems During Disasters", in the book *Blockchain Enabled Secure Big Data Computing for Smart Cities Using Internet of Things* organised by R.Ashok Kumar, D Karthika Renuka -PSG College of Technology , Coimbatore ,India and V Chandrasekar , Colorado State University ,USA , Sonali Agarwal- Indian Institute of Information Technology, Allahabad,India , Nova Science Publishers, USA,Nov 2023 ISBN: 979-8-89113-243-6 DOI: <https://doi.org/10.52305/ZTKF5521>
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**Mrs. Subhashini.G**

**As provided in SAR**

➤ Nil

**After Evaluation ( till the date of compliance report)**

1. R.Rajalakshmi, P.Sivakumar, D.Devarajan, G.Subhashini (2023)"Analysis of power in logic circuits using various clockgating techniques"International Conference on Smart Technologies and Applications (ICSTA 2022)AIP Conf. Proc. 2831, 050005-1–050005-12; <https://doi.org/10.1063/5.0162820>,september 2023.(Scopus Indexed)
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3. Harini Shriram S, Dr. S. Vairaprakash, G. Subhashini, Venkatesh P, and R. Chandralekha A presented a paper titled "REDUCTION OF FWM IN WDM OPTICAL NETWORK FOR INCREASING FIBER CAPACITY" at the 4th International Conference on Smart Electronics and Communication (ICOSEC) 2023 by kongunadu College of Engineering and Technology Trichy, Tamil nadu, India, on September 20–22, 2023

**Ms.L.Krishna Kumari**

**As provided in SAR**

➤ Nil

**After Evaluation ( till the date of compliance report)**

1. R.Ramalakshmi , K.Ragavan , G.Gnana Priya , V.SrirengaNachiyar L.Krishna Kumari S.Tamil Selvi, **Performance Evaluation of Different MIMO Systems,** (2023) *Journal of Pharmaceutical Negative Results*, 10.47750/pnr.2023.14.S02.160 (UGC/Others)
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5. L Krishna kumari,R Rajalakshmi published a book chapter titled "Energy Aware protocols and standards in IoT enabled Healthcare" in *AI and IoT based Technologies for Precision Medicine*,Alex Khang,Published by IGI Global ,Hershey,Pennsylvania,USA in October 2023.
6. L Krishna kumari, R.Rajalakshmi published a book chapter titled "Location Tracking and Health Monitoring Systems During Disasters", in the book *Blockchain Enabled Secure Big Data Computing for Smart Cities Using Internet of Things* organised by R.Ashok Kumar, D Karthika Renuka -PSG College of Technology , Coimbatore ,India and V Chandrasekar , Colorado State University ,USA , Sonali Agarwal- Indian Institute of Information Technology, Allahabad,India , Nova Science Publishers, USA,Nov 2023 ISBN: 979-8-89113-243-6 DOI: <https://doi.org/10.52305/ZTKF5521>

**Ms.R.Chandralekha**

**As provided in SAR**

➤ Nil

**After Evaluation ( till the date of compliance report)**

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2. G. Subhashini, S. Vairaprakash, R. Chandralekha, R. Rajalakshmi, A. S. Amudhadevi and R. Ishwarya, "**Modelling and Analysis of different types of TSV for Three Dimensional Integrated Circuits,**" *2023 International Conference on Networking and Communications (ICNWC)*, Chennai, India, 2023, pp. 1-10, doi: 10.1109/ICNWC57852.2023.10127533.
3. Harini Shriram S, Dr. S. Vairaprakash, G. Subhashini, Venkatesh P, and R. Chandralekha A presented a paper titled "REDUCTION OF FWM IN WDM OPTICAL NETWORK FOR INCREASING FIBER CAPACITY" at the 4th International Conference on Smart Electronics and Communication (ICOSEC) 2023 by kongunadu College of Engineering and Technology Trichy, Tamil nadu, India, on September 20–22, 2023.
4. V.SrIREngaNachiyar, Dr.P.Marichamy, Ms.R.Chandralekha and Dr.R.Kasi Raman presented a paper title " EEG signal Classification using AI" at 2nd IEEE International Interdisciplinary Humanitarian Conference for Sustainability organized by Shri Venkateswara College of Engineering, Bengaluru on 03.11.2023.

**Ph.D. Guidance:**

**Name of the Supervisor: Dr.L.Ganesan**

**Reference No: 9940076**

**Number of Ph.D Guidance: 04**

Sl. No	Reg. No.	Name of the Candidate	Place of working	Title of the Research	Name of the University
1.	1322479232	K.ChandraPrabha	A C College of Engineering & Technology, Karaikudi	Fractional calculus based Texture analysis, with industrial applications	Anna University Chennai
2.	1513379745	G.Amuthan	A C College of Engineering & Technology, Karaikudi	Photovoltaic Cell and its impact on Reactive Power Generation	Anna University Chennai

3.	1422479288	I.Muthumani	GCE Chengipatti, Tanjore	Texture and document analysis	Anna University Chennai
4.	17244797217	M.Ganga	Shri RajaRajan College of Engineering & Technology, Karaikudi	Network Security- Research Issues and solutions	Anna University Chennai

**Name of the Supervisor: Dr.ARUNACHALAPERUMAL C**

**Reference No.: 2940050 (ICE)**

**No.of Ph.D Guidance: 2 Awarded and 11 Ongoing**

Sl. No	Reg. No.	Name of the Candidate	Place of working	Title of the Research	Status	Name of the University
1.	16144997398	Pitchandi @ Sankaralingam R	Madha Engineering College, Chennai	Authenticated Deniable Internet Key Exchange	Confirmation Completed	Anna University Chennai
2.	17174997384	Surya P	Madha Institute of Technology, Chennai	Design of Low Power and Area Efficient Parallel Pipelined DIF-FFT Radix-2 Architecture	Confirmation Completed	Anna University Chennai
3.	17234997540	Sudha L	S.A. Engineering College, Chennai	Secured Data Storage in Cloud Environment Via Deduplication Technique	Confirmation Completed	Anna University Chennai
4.	17243997176	Ramya M	S.A. Engineering College, Chennai	Performance Enhancement of Radio Access Technique For Future Wireless Communication Network	Confirmation Completed	Anna University Chennai
5	17244997545	Aruna K B	S.A. Engineering College, Chennai	Dynamic Secured Remote Data Auditing in Distributed Cloud Environment	Confirmation Completed	Anna University Chennai

6	18244991478	Subatra R	S.A. Engineering College, Chennai	Design of High Performance Ka band Low Noise Amplifier for High Speed Satellite Communication Using Hybrid Technology	Confirmation Completed	Anna University Chennai
7	18244991507	Adlin S	St.Joseph College of Engineering and Technology, Chennai	Multi Spectral Image Processing	Course Work	Anna University Chennai
8	18244997106	Twinkle Graf F	S.A. Engineering College, Chennai	Detection of Vulnerabilities and Development of Cross Platform Test Cases in Android App for Shelter site Recommendation	Confirmation Completed	Anna University Chennai
9	21244991245	Subha T D	RMK Engineering College, Chennai.	Efficiency Enhancement of Tandem Perovskite Solar Cell	Synopsis Submitted	Anna University Chennai
10	21244991394	Usha Rani H	S.A. Engineering College, Chennai	Optical Packet Switching Using Optical Mems	Confirmation Completed	Anna University Chennai
11	22243991128	Chithra S	Stella Mary's College of Engineering, Aruthenganvili, Kanyakumari	Design of Intelligent Reconfigurable Power Converter For Renewable Power System	Confirmation Completed	Anna University Chennai