



# **TAGORE ENGINEERING COLLEGE**

**(Approved by AICTE, Affiliated to ANNA University)**

E-mail: [hod.ece@tagore-engg.ac.in](mailto:hod.ece@tagore-engg.ac.in).

Website: <https://www.tagore-engg.ac.in/academics/ug/ece/index.php>

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

### **FACULTY INDEXED JOURNAL PUBLICATIONS**

#### **SCI / SCOPUS/ UGC CARE**

1. **Ramesh R., 2023, "DeBAM – ERCPAA – CNN: Hardware Efficient CNN Accelerator Design Using Decoder-Based Low Power Approximate Multiplier and Error Reduced Carry Prediction Approximate Adder," August 21, 2023.**
2. **M. K. Vidhyalakshmi, S. Thaiyalnayaki, D. Bhuvana Suganthi, R. Porselvi, K. Kumuthapriya, "Automated micro aneurysm classification using deep convolutional spike neural networks", published in an International journal of Wireless Networks, Published online @8.7.2024. <https://doi.org/10.1007/s11276-024-03769-3>.**
3. **R. Ramesh, R.Valarmathi and S. Dhandapani Winster "Heartbeat and Respiration Rate Prediction Using Combined Photoplethysmography and Ballisto Cardiography" Intelligent Automation & Soft Computing, Vol. 36, Issue 2, pp. 1365 - 1380, 2023. DOI:<https://doi.org/10.32604/iasc.2023.032155>.**
4. **R. Ramesh ,T. Merlin, Inbamalar and S. Dhandapani "SNCDM: Spinal Tumor Detection from MRI Images Using Optimized Super-Pixel Segmentation" Intelligent Automation & Soft Computing, Vol. 36, Issue 2, pp. 1899 -1913, 2023. DOI:<https://doi.org/10.32604/iasc.2023.031202>.**
5. **R. Ramesh, Alwin Vinifread, Dhandapani "Automatic adaptive synchronization (A2S): A demand-based automatic synchronization for distribution generators in islanding mode" knowledge-based Systems, Vol.275,2023. DOI: <https://doi.org/10.1016/j.knosys.2023.110641>.**
6. **Radhakrishnan.P, A.Anbarasi & K.Srujan Raju, "Detection of Colon Cancer Using Image Processing" International Journal of Cybernetics and Systems, 2023. DOI: <https://doi.org/10.1080/01969722.2023.2175131>.**
7. **Porselvi, R & Murugan, M, "Acquisition of state and DOS features based channel estimation for VTV mmwave Massive MIMO: A Deep Nested with Layered LSTM**



**TAGORE ENGINEERING COLLEGE**  
(Approved by AICTE, Affiliated to ANNA University)

E-mail: [hod.ece@tagore-engg.ac.in](mailto:hod.ece@tagore-engg.ac.in).

Website: <https://www.tagore-engg.ac.in/academics/ug/ece/index.php>

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

**Approach**", Published in an International Journal Applied Acoustics@ Elsevier Ltd,  
Volume 212, September 2023.

DOI: <https://doi.org/10.1016/j.apacoust.2023.109590>.

8. **R. Ramesh**, Ganesh Babu, C. Chellaswamy, T. S. Geetha "**Fibre optic sensor based multi-gas detection using optimized convolutional neural network**" Journal of Modern Optics, Vol. 69, Issue.7, pp., 2022. DOI:

<https://doi.org/10.1080/09500340.2022.2041753>.

9. R. Ramesh ,Sabaresan Venugobal and S. Godfrey Winster "**IOT based cyber forensics in big data optimization and privacy using deep neural anomaly detection wit Hadoop clustering and convolution based Adam optimizer**" Concurrency and Computation Practice and Experience, Vol. 34, Issue. 11, 2022.

DOI: <https://doi.org/10.1002/cpe.6881>.

10. **R. Ramesh**, A.Siva Kumar and S. Godfrey Winster "**User Centric Block-Level Attribute Based Encryption in Cloud Using Blockchains**" Computer Systems Science & Engineering, Vol.42, Issue.2, pp.605-618, 2022.

DOI: <https://doi.org/10.32604/csse.2022.022467>.

11. **R. Ramesh**, A.Siva Kumar and S. Godfrey Winster "**Efficient sensitivity orient blockchain encryption for improved data security in cloud**" Concurrent Engineering: Research and Applications, Vol. 29, Issue.3, pp.197-207, 2021. DOI: <https://doi.org/10.1177/1063293X211008586>.

12. **R. Ramesh**, Alwin Vinifread "**Fast synchronization of distributed generators with power grid under transient conditions using hybrid optimization algorithm**" Optim Control Applications and Methods, Vol 42, No.3, pp.700-716, 2021. DOI: <https://doi.org/10.1007/s11277-021-08401-7>



## **TAGORE ENGINEERING COLLEGE**

**(Approved by AICTE, Affiliated to ANNA University)**

E-mail: [hod.ece@tagore-engg.ac.in](mailto:hod.ece@tagore-engg.ac.in).

Website: <https://www.tagore-engg.ac.in/academics/ug/ece/index.php>

### **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

13. **R. Ramesh** ,S. Feslin Anish Mon and S. Godfrey Winster **“Trust model for IOT using Cluster Analysis: A Centralized approach”** Wireless Personal Communication, vol.127, pp.715-736, 2021.

DOI: <https://doi.org/10.1007/s11277-021-08401-7>.

14. **R. Ramesh**, Sabaresan Venugobal and S. Godfrey Winster **“Cyber forensic framework for big data analytics using sunflower jaya optimization- based Deep stacked autoencoder”** International Journal of Numerical Modeling, Vol.34, Issue.5, 2021. DOI: <https://doi.org/10.1002/jnm.2892>.

15. **R. Ramesh**, C. Chellaswamy et.al **“Optimized railway track health monitoring system based on dynamic differential evolution algorithm”** Measurement, Vol.15, pp.21-18, 2020.

DOI: <https://doi.org/10.1016/j.measurement.2019.107332>.

16. **R. Ramesh**, Alwin Vinifread and P. Prakesh **“Grid Variables Synchronization using optimization algorithm for distributed generation system under grid fault conditions”** International Journal of Engineering and Advanced Technology, Vol.8, No.5, pp.2658-2665, 2020.

DOI: <https://doi.org/10.2174/1574362413666181102113636>.

17. **Porselvi, R & Murugan, M**, **“An efficient pilot-symbol-aided and decision-directed hybrid channel estimation technique in OFDM systems”**, Published in a Journal of National Telecommunication Systems (Modeling, Analysis, Design and Management) © Springer 2019, ISSN 1018-4864 vol. 73, no. 4, pp. 531-544, Telecommunication System (2020). DOI: <https://doi.org/10.1007/s11235-019-00620-5>.



**TAGORE ENGINEERING COLLEGE**  
(Approved by AICTE, Affiliated to ANNA University)

E-mail: [hod.ece@tagore-engg.ac.in](mailto:hod.ece@tagore-engg.ac.in).

Website: <https://www.tagore-engg.ac.in/academics/ug/ece/index.php>

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

18. **Dr.T.Suresh**, “Design of low power NFSR for RFID system with irregular clock pulse Microprocessors and Microsystems”, Science Direct, 0141-9331, 2020. DOI: <https://doi.org/10.1016/j.micpro.2019.102983.3.503.73>.
19. **Dr.J.Premalatha**, “Compact four-port vertically polarized UWB monopole antenna for MIMO communications”, Circuit World, Emerald publishing limited, 0305-0055, 2020. DOI:10.1108/CW-04-2020-0055, 0.875.
20. **Dr.J.Premalatha**, “Highly integrated eight-port broadband MIMO antenna exploiting polarization and pattern”, Analog Integrated Circuits and Signal Processing, Vol 110, pp. 311-320, 2020.
21. **P. Radhakrishnan**, Abullais Nehal Ahmed, K.Kalaiyarasi, Koppiseti Giridhar & S. Thenappan, “**EEG-Based Brain-Computer Interfaces Using Gazelle Optimization Algorithm With Deep Learning For Motor-Imaginary Classification**” published in a research article fusion:practice and application (FPA) Vol 16 No.01. PP.37-51,2024.
22. P. Hosana princye, S. Usha, **P. Radhakrishnan**, M. Therasa, Pullela SVVSR kumar, M. Dhanalakshmi, D. Senthil Kumar, A. Rajaram , “**Expression Analysis Of Death Receptor Ligands Using Biomedical Images**” published in a research article Journal of Environmental Protection and Ecology 25, No 4, 1279-1290(2024).
23. **Suresh.T**, SumanthRatna Kandavalli, Rajendran.T, Chanthirasekaran.K “**synthesis of flexible magnetoelectric poly vinyl alcohol composites using hybrid filler particles of carbon quantum dots and cobalt nano for electromagnetic interference shielding**” application, journal of vinyl & additive technology, June 2024.
24. B. Ramesh, K. Manikannan, **Suresh T**, and D. Karunkuzhali “**Integrating MIMO and IOT for Advanced Community Health Solutions and Sustainable Urban Planning**” Community Practitioner, June 2024, Vol 21, Issue 06. DOI:10.5281/zenodo.11613900.
25. T. Prakash, V. P. Pradeep, **T. Suresh** and S. Raja “**Electric Discharge Machining of Titanium Alloy under Cu Mixed Dielectric Medium**” Current Materials



**TAGORE ENGINEERING COLLEGE**  
(Approved by AICTE, Affiliated to ANNA University)

E-mail: [hod.ece@tagore-engg.ac.in](mailto:hod.ece@tagore-engg.ac.in).

Website: <https://www.tagore-engg.ac.in/academics/ug/ece/index.php>

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

Science, October 2023, vol.16, DOI: 10.2174/2666145417666230816091446,  
ISSN.2666- 1462.

26. **R. Porselvi**, D. Kanchana, Beulah Jackson, L. Vigneash, “**Dynamic resource management for 6G vehicular networks: CORA-6G offloading and allocation strategies**”, published in a Research article ‘The Scientific Temper (2024), Vol.15(2): 2116-2112. (UGC care Listed Journal).

27. **P. Sakthi Shunmuga Sundaram** and K. Vijayan, 2024, "**Clustering and Genetic Optimization Algorithm to Enhance the Quality of Services in IoT-enabled Wireless Sensor Networks**," 2nd International Conference on Networking and Communications (ICNWC), Chennai, India, 2024, pp. 1-7, doi: 10.1109/ICNWC60771.2024.10537293. (Scopus Indexed - IEEE Xplore, 2024).

28. **P. Sakthi Shunmuga Sundaram** and K. Vijayan, 2024, "**Optimizing energy efficiency and enhancing localization accuracy in wireless sensor networks through genetic algorithms**," International Journal of Advanced Technology and Engineering Exploration, Vol. 11(110), ISSN (Print): 2394-5443, ISSN (Online): 2394-7454, <http://dx.doi.org/10.19101/IJATEE.2022.10100461>. (Scopus Indexed, 2024).

29. **Dr.P.Radhakrishnan**, published a paper “**FPGA based power efficient approximate 4:2 compressor for Multimedia Applications**” in the proceedings of 2 nd International conference paper on Edge computing & applications (ICECAA 2023) IEEE Xplore Part Number CFP233BV8-ART; ISBN: 979-8-3503-4757-9.

30. **Dr.P.Radhakrishnan**, published a paper “**Machine Learning based enhanced autonomous driving for autonomous vehicle**” in the proceedings of 2 nd International



**TAGORE ENGINEERING COLLEGE**  
(Approved by AICTE, Affiliated to ANNA University)

E-mail: [hod.ece@tagore-engg.ac.in](mailto:hod.ece@tagore-engg.ac.in).

Website: <https://www.tagore-engg.ac.in/academics/ug/ece/index.php>

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

conference paper on Inventive Computation Technologies (ICICT 2023) IEEE Xplore Part Number CFP23F70-ART; ISBN: 979-8-3503-9849-6

31. **Dr.P.Radhakrishnan**, presented & published a paper “**Detection of Parkinson Disease using Machine Learning**” in the proceedings of 2 nd International conference paper on Inventive Computation Technologies (ICICT 2023) IEEE EXplore Part Number CFP23F70-ART; ISBN: 979-8-3503-9849-6

32. **K. Srinivasan** and R. Zahira, “**Four switch three phase y source inverter fed ac drive using Fopid controller**” Journal of Data Acquisition and Processing ISSN: 1004-9037, Vol. 38, Issue 1, pp. 3012-3022, 2023. DOI: <http://sjcjycl.cn/article/view-2023/3012.php>.

33. **S. Vasanthadev Suryakala, T. R. Sree Vidya, S. Hari Ramakrishnan**, “**Federated Machine Learning for Epileptic Seizure Detection using EEG**”, published in an International Journal of Advanced Computer Science and Applications, ISSN: 21565570, Vol. 15, No. 4, PP: 1048 - 1053. (SCOPUS Indexed Journal)

34. **Radhakrishnan.P, A.Anbarasi & K.Srujan Raju**, “**Detection of Colon Cancer Using Image Processing**” International Journal of Cybernetics and Systems, Published online: 08 Feb 2023.

35. **Sridhar, P.Radhakrishnan & G.Swapna**, “**A Modular IoT Sensing Platform using Hybrid Learning Ability for Air Quality Prediction**” International Journal of Measurement Sensors, 25(2023) DOI:100609.

36. **B. Nancharaiah, G.Chandra Sekhar & P.Radhakrishnan**, “**An IoT based Healthcare Monitoring System**” International Journal of Pharmaceutical Negative Results, Vol 14, Issue 03, 2023, DOI:10.47750/pnr.2023.14.03.19

37. **P.Radhakrishnan**, Kailash kumar, Thiagarajan, 2022, “ **SOC Monitoring & Rescue Actions in Children Health Care using Raspberry pi 4 microcontroller** “ Journal of neuro Quantology “ August 2022, Vol 20, Issue 10 , pp 5017 - 5023

38. **K. Srinivasan** and G.Themozhi, “**Analysis of Parallel Prefix Adders for Cryptographic Application**” International Journal on Recent Researchers in Science,





**TAGORE ENGINEERING COLLEGE**  
(Approved by AICTE, Affiliated to ANNA University)

E-mail: [hod.ece@tagore-engg.ac.in](mailto:hod.ece@tagore-engg.ac.in).

Website: <https://www.tagore-engg.ac.in/academics/ug/ece/index.php>

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

Engineering and Technology (IJRRSET), ISSN No : 2348-3105, Vol.9, Issue 6, pp.1-9, 2022. DOI: <http://www.jrrset.com/2022/June/paper1.pdf>

39. G Themozhi & P Radhakrishnan, 2021 **"Battery Monitoring And Smart Charging Using IOT For Electrical Vehicle Applications"** International Journal of Aquatic Science, ISSN 2008-8019 Vol 12, Issue 03, pp 593-601

40. Radhakrishnan P & Themozhi, G 2020 **"FPGA Implementation Of XOR MUX Full adder Based DWT for Signal Processing Applications"**, Journal of Microprocessors and Microprocessor systems (ELSEVIER), vol.73, 102961.

41. Radhakrishnan P & Themozhi, G 2020 **"Design of CMOS Truncated Multiplier with 10T GDI Full adder"**, Journal of TEST Engineering & Management, ISSN 0193-4120, pp. 3955-3960.

42. Radhakrishnan P, Themozhi, G, & SreeRathna Lakshmi, N.V.S 2020 **"FPGA Implementation of XOR MUX Full adder and subtractor based Truncated DCT for Audio Processing Applications"**, International Journal of Advanced science & technology, vol. 29, no. 6, pp. 2352-2367.

43. K. Srinivasan and R. Ravisekar, 2020 **"Fuzzy logic controller based upfc for reactive power compensation in transmission line"** International Journal of Journal of Xi'an University of Architecture & Technology, ISSN No : 1006-7930. Vol. XII, Issue II, 2020.

44. K. Srinivasan and R. Ravisekar, 2020, **"Adaptive Transmission System with PMU"** International Journal of Test Engineering and Management ISSN: 0193-4120 Page No. 25499-25504, March–April 2020.  
<http://testmagzine.biz/index.php/testmagzine/article/view/11984>

45. K. Srinivasan and R. Ravisekar, 2020 **"Optimal reactive power dispatch with series and shunt facts devices using sine cosine algorithm"** International Journal of Advanced Research in Engineering and Technology (IJARET) Volume 11, Issue 1, pp.90-109, January 2020.



## **TAGORE ENGINEERING COLLEGE**

**(Approved by AICTE, Affiliated to ANNA University)**

E-mail: [hod.ece@tagore-engg.ac.in](mailto:hod.ece@tagore-engg.ac.in).

Website: <https://www.tagore-engg.ac.in/academics/ug/ece/index.php>

### **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

46. **K. Srinivasan and R. Ravisekar, 2020, “Real Power Minimization with Voltage Profile Enhancement Using Series and Shunt FACTS Controllers – Sine Cosine Algorithm Approach” International Journal of Test Engineering and Management ISSN: 0193-4120 Page No. 10873- 10890, January-February 2020.**