Mrs.G.Annapoorani M.E., (Ph.D)

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Mrs.G.Annapoorani working as an Assistant Professor in the Department of ECE at SRMIST, Ramapuram. She Graduated in Electronics and Communication Engineering in the year 2009 from Anna University, Chennai. She completed her Master of Engineering in Applied Electronics in the year 2011 from Anna university, Tirunelveli. She is currently pursuing her Ph.D. in the field of Medical image and signal processing at SRMIST, Chennai, India. She is in teaching profession for more than 12 years. She has presented number of papers in National and International Journals, Conference and Symposiums.

AREAS OF RESEARCH:

Electronics, Instrumentation, Medical signal and image processing, VLSI, Artificial Intelligence

SELECTED PUBLICATIONS:

1. Ramani P, Sugumaran S, Devi MN, Nagalakshmi TJ, Annapoorani G. Detection and classification of arrhythmia disorders using machine learning algorithm. Int. J. Medical Engineering and Informatics. 2024;16(5).
2. Ganesan, Annapoorani, and Vaishali Durgamahanthi. "Non-Invasive Breast Cancer Detection Using Electrical Impedance Tomography: Design, Analysis and Comparison of Reconstruction Algorithms." *Traitement du Signal* 40.6 (2023).
3. Annapoorani G, Vani R, Vaishali D. Multi-Modal Finite Element Modelling for Enhanced Breast Cancer Detection using Electrical Impedance Tomography and Ultrasound Tomography in Second International Conference on Advances in Computational Intelligence and Communication (ICACIC) 2023 Dec 7 (pp. 1-6). IEEE.
4. Lingesh RS, Annapoorani G. Assistive Mobile Robot Navigation and Localization using FastSLAM Algorithm. In2023 5th International Conference on Inventive Research in Computing Applications (ICIRCA) 2023 Aug 3 (pp. 1807-1813). IEEE.
5. Annapoorani, G. and Yadav, A.K., 2021. "An Effective Approach For Detection & Evaluation Of Breast Cancer Using Artificial Neural Network". *Ilkogretim Online*, *20*(1).
6. Mrs.G.Annapoorani, Yasam.Dharani, C.Silpa, P.V.Harsha. (2020). "Road Sign Recognition and Vehicle Control Using Raspberrypi". *International Journal of Advanced Science and Technology*, *29*(10s), 6979-6978.
7. Mrs.G. Annapoorani , Sayantan Chatterjee ,2019, "Convolution Neural Network Implementation in Optical Speech Recognition", *IJARIIE*-ISSN(O)-2395-4396.
8. Mrs.G. Annapoorani, Renuka Gurung2,2019, "BCI FOR THE HOME AUTOMATION OF APPLIANCES BY USING RASPBERRY PI*", IJARIIE*-ISSN(O)-2395-4396
9. Mrs.G. Annapoorani , Vinay Kumar Reddy B, P Ajay Srinivas, 2018, "SOPHISTICATED HOME AUTOMATION SYSTEM USING BLUETOOTH", *International Journal of Pure and Applied Mathematics*, Volume 118 No. 20 2018, 719-722.
10. M. Sai Kaushik G. Annapoorani, Prudhvi Inja, Pallab Medhi ,"Health care monitoring in IOT using WBAN" in *International journal of Recent research Aspects* in March 2018.

11. Gokul Pothirajan, G Annapoorani "Home Automation with Indoor Location Using Bluetooth Low Energy and Arduino-ZigBee Nodes" in *International Research Journal of Engineering and Technology* (IRJET), May 2017.
12. E. Anusha G. Saranyadevi ,K. Tamizhelakkiya,G. Annapoorani ,"Research on the effective interoperability between heterogenous data commincation networks based on dual protocol stack and tunnel transition" in *International Journal of science and technology* , JUNE 2016
13. Suganya.S, Annapoorani.G , Janarthanan.M "IOT based Multipurpose Transport Management System using Smart Intelligent Sensors" in *International Journal of Advanced Research Trends in Engineering and Technology* (IJARTET) , Vol. 3, Special Issue 19, April 2016
14. G.Annapoorani, K.Tamizhelakkiya "Fuzzy priority Scheduler for WIMAX " in *International Journal of Innovations in Engineering and Technology*(IJIET), August 2015
15. Kumar, D.N.P., Murugesan, K. and Annapoorani, G., 2011, February. Fuzzy priority scheduler for WiMAX with improved QoS. In *Proceedings of the International Conference & Workshop on Emerging Trends in Technology* (pp. 875-880).

AWARDS

- Received Best paper award for paper titled " Multi-Modal Finite Element Modelling for Enhanced Breast Cancer Detection using Electrical Impedance Tomography and Ultrasound Tomography " in Second International Conference on Advances in Computational Intelligence and Communication (ICACIC) 2023 Dec 7 (pp. 1-6). IEEE.

- Received Best paper award for paper titled "Designa and analysis of Forward problem of Electrical impedance tomography for Breast cancer screening" in in Second International Conference on Innovations in Electronics and Communication systems(ICIECS-2022) Nov 22.

PATENTS

1. **Patent Published:05/07/2024 Application no:202441048898**

   Title of invention: Smart Surveillance System with Embedded Deep learning for Object Detection and Tracking in IoT

2. **Design Patent granted number:357829-001 19/05/2023**

   Title of Invention: Diabetics management system

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