

Faculty Profile

Dr. S.Punitha, M.E., Ph.D

Assistant Professor,

Department of Computer Science and Engineering

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Academic Background

Degree	University	Year
Ph.D	Pondicherry Central University	2020
M.E	Anna University	2008
B.E	Madras University	2004

Courses Taught

- Machine Learning
- Data Science
- Python Programming
- C Programming

Research Interests

- Medical Image Processing
- Evolutionary Computation
- Artificial Neural Networks
- Deep Learning

Most recent Publications

- S. Punitha, Thompson Stephan, Ramani Kannan, Ajith Abraham, "A Hybrid Artificial Bee Colony with Whale Optimization algorithm for improved breast cancer diagnosis", (Accepted) Neural Computing and applications.

- S. Punitha, Thompson Stephan, “An Automated breast cancer diagnosis scheme using feature selection and parameter optimization of an ANN model” *Journal of Computer and Electrical engineering*, Volume 90, March 2021, 106958.
- Shamim Kaiser M. Mahmud, M., Noor, M.B.T., Chen, T., Hussain, S. Punitha et al., *IWorksafe: Towards Healthy Workplaces during COVID-19 with an Intelligent Phealth App for Industrial Settings*, 9, pp.13814–13828, 9317697, IEEE Access, 2021.
- Stephan T, Sharma K, Shankar A, Punitha S, Varadarajan V, Liu P, “Fuzzy-Logic-Inspired Zone-Based Clustering Algorithm for Wireless Sensor Networks,” *International Journal of Fuzzy Systems*, (2020). <https://doi.org/10.1007/s40815-020-00929-3>
- S. Punitha, Fadi, Thompson S, “Genetically Optimized Computer Aided Diagnosis for detection and classification of COVID-19” A chapter in *AI-Powered IoT for COVID-19*, Taylor and Francis, 2020, eBook ISBN : 9781003098881.
- S Punitha, A Amuthan, and K Suresh Joseph, “Enhanced Monarchy Butterfly Optimization Technique for effective breast cancer diagnosis,” *Journal of Medical Systems*, vol. 43, no. 7, 2019.
- S. Punitha, A. Amuthan, and K. Suresh Joseph, “Benign and malignant breast cancer segmentation using optimized region growing technique,” *Future Computing and Informatics Journal*, vol. 3, no. 2, pp. 348–358, 2018.

Projects Guided

- Particle swarm optimized computer aided diagnosis system for classification of breast masses
- Computer-Aided Diagnosis for Detection and Classification of COVID-19
- A diagnosis system using Internet of Medical Things (IoMT) for COVID-19 pandemic

Memberships in Professional societies

- NIL

Significant achievements:

- Has authored many publications in reputed journals, conferences and book chapters.
- An active referee in reputed journals.
- Has completed J2EE and J2ME certification courses.\
- Patents Filed:
Pandiaraja, Yogapriya, Muthumanickam, Premkumar, PalaniKumar, Sengolrajan, S. Punitha.(2021) “An Intelligent ECG Measuring Wrist Band For Cardiac Arrest Patient By Using Machine Learning Algorithm”, 202141019221

