

## Faculty Profile

**Dr. R Sabitha, M.E., Ph.D**

Assistant Professor,

Department of Computer Science and Engineering

[sabitha@karunya.edu](mailto:sabitha@karunya.edu)



### Academic Background

---

Degree	University	Year
Ph.D	Anna University	2016
M.E	Avinashilingam University	2008
B.E	Avinashilingam University	2003

### Courses Taught

---

- Fundamentals of Programming
- Computer Organisation and Architecture
- Database Management Systems
- Machine Learning
- BigData Analytics
- Data Mining and Warehousing
- Software testing
- Software Project Management
- Design and Analysis of Algorithms
- Formal Languages and Automata theory
- Theory of Computation
- Mobile Computing
- Artificial intelligence

### Research Interests

---

- Data Mining

- Segmentation techniques
- Machine Learning
- Data Analytics

#### Most recent Publications

---

- **Paper Title:** "AN ENHANCED SOFT COMPUTING-BASED FORMULATION FOR SECURE DATA AGGREGATION AND EFFICIENT DATA PROCESSING IN LARGE SCALE WIRELESS SENSOR NETWORK"  
**Journal:** "Springer - Soft Computing ISSN: 1432-7643 (Print) 1433-7479 (Online) 2020- Soft Computing (2020). <https://doi.org/10.1007/s00500-020-04694-1>.
- **Paper Title:** " FSS-SDD: FUZZY-BASED SEMANTIC SEARCH FOR SECURE DATA DISCOVERY FROM OUTSOURCED CLOUD DATA"  
**Journal:** "Springer - Soft Computing ISSN: 1432-7643 (Print) 1433-7479 (Online) 2020- Soft Computing (2020). Soft Computing DOI <https://doi.org/10.1007/s00500-020-04701-5>.
- **Paper Title:** "POSITION- BASED ADAPTIVE CLUSTERING MODEL (PACM) FOR EFFICIENT DATA CACHING IN VEHICULAR NAMED DATA NETWORKS (VNDN)"  
**Journal:** "Springer - Wireless Personal Communications Springer Science- Business Media March 2020- <https://doi.org/10.1007/s11277-020-07208-2>.
- **Paper Title:** "HYBRID PSO-BAT ALGORITHM WITH FUZZY LOGIC BASED ROUTING TECHNIQUE FOR DELAY CONSTRAINED LIFETIME ENHANCEMENT IN WIRELESS SENSOR NETWORKS "  
**Journal:** "Journal of Internet Technology Volume 21 (2020) No.2 – March 2020. DOI: 10.3966/160792642020032102016.
- **Paper Title:** " A DISTRIBUTED KEY AUTHENTICATION AND OKM-ANFIS SCHEME BASED BREAST CANCER PREDICTION SYSTEM IN THE IOT ENVIRONMENT "  
**Journal:** "Journal of Ambient Intelligence and Humanized Computing <https://doi.org/10.1007/s12652-020-02249-8>

#### Projects Guided

---

- Smart Home Automation System
- Mirror Cleaning drone development
- Detection of Diabetic Retinopathy in New-born
- CDSS for Heart Disease prediction
- Highway cleaning and pruning drone
- AR system for medicine component analysis

#### Memberships in Professional societies

---

- Member of ACM
-

## Significant achievements:

---

- Reviewer / Editorial Board Member in renowned Journals
- Produced 2 PhD candidates in Anna University, Chennai
- Patents Filed & Granted:
  - **VEHICLE SMART SECURITY SYSTEM BASED ON INTERNET OF THINGS-**  
Product Patent - Filed - The Patent office, KOLKATA
  - **DECISION MAKING SYSTEM FOR CROP-LIVESTOCK FARMS USING MACHINE LEARNING ALGORITHMS** – Innovation Patent : Australian Patent –  
Application Number : 2020100954 / Date: 05.06.2020 – Granted