

## Faculty Profile

### Dr. Priscilla Joy

Assistant Professor,  
Department of Computer Science and Engineering  
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### Academic Background

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Degree	University	Year
Ph.D	Noorul Islam University	2021
M.Tech	Karunya University	2010
B. E	Anna University	2008

### Courses Taught

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#### Under Graduate Programmes

- Theory of Computation
- Object oriented system design(OOSD)
- Principles of compiler design(PCD)
- Database Management Systems(DBMS)
- Service Oriented Architecture(SOA)
- Multicore Architecture and Programming(MCA)
- Graph Theory and Applications(GTA)
- Artificial Intelligence(AI)
- Geographic Information Systems(GIS)
- Problem Solving and Python Programming(PSPP)
- Internet Programming(IP)

#### Post Graduate Programmes

- Multicore Architecture(MCA)
- Advanced Computer Architecture (ACA)
- Software Quality Assurance
- Software Quality Management

## Research Interests

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- Wireless Sensor Networks
- Wireless Security
- Internet of Things
- Artificial Intelligence
- Machine Learning

## Most recent Publications

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- R. Priscilla Joy, J. Dheeba, "IPS Packet Scheduling Scheme for Wireless Sensor Networks", Presented a Paper in International Conference on Signal Processing and Communication (ICSPC '17), conducted at Karunya University, Coimbatore, Tamilnadu, on 28th-29th July 2017. [Scopus]
- Priscilla Joy, R. Thanka, and B. Edwin, "Smart Self-Pollination for Future Agricultural- A Computational Structure for Micro Air Vehicles with Man-Made and Artificial Intelligence", *Int J Intell Syst Appl Eng*, vol. 10, no. 2, pp. 170–174, May 2022.
- G. Jayandhi, J. S. Leena Jasmine, R. Seetharaman, S. Mary Joans and R. Priscilla Joy, "Automatic Breast Tumor Cancer Diagnosis Based on a Hybrid Densenet," 2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS), 2022, pp. 1210-1214, doi: 10.1109/ICACCS54159.2022.9784979.
- M. R. Thanka, E. B. Edwin, R. Priscilla Joy, S. J. Priya and V. Ebenezer, "Varicose Veins Chronic Venous Diseases Image Classification Using Multidimensional Convolutional Neural Networks," 2022 6th International Conference on Devices, Circuits and Systems (ICDCS), 2022, pp. 364-368, doi: 10.1109/ICDCS54290.2022.9780842.
- G. Jayandhi, J. S. Leena Jasmine, R. Seetharaman, S. M. Joans and R. Priscilla Joy, "Efficient Breast Cancer Prediction using Hybrid Deep Learning in mammographic images," 2022 International Conference on Electronics and Renewable Systems (ICEARS), 2022, pp. 1366-1371, doi: 10.1109/ICEARS53579.2022.9752046.
- Joy, R. P. ., Thanka, M. R. ., Sangeetha, Dhas, J. P. M. ., Edwin, E. B. ., & Ebenezer. (2023). Music Mood Based Recognition System Based on Machine Learning and Deep Learning . *International Journal of Intelligent Systems and Applications in Engineering*, 11(2), 904–911.
- T. P. Melkish, R. P. Joy, H. EphraimImmanuel, J. JeffersonRajadurai and A. Fabiyo, "Surface Electromyography based Wrong Posture Muscle Detector," 2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS), Coimbatore, India, 2023, pp. 1339-1343, doi: 10.1109/ICSCSS57650.2023.10169315.

- Grace Gnanam J, Dr. Priscilla Joy, Hepziba A, Surjith S, Dr. Bijolin Edwin, Godwin J, "Metal Detector Washing Machine Using Internet of Things" 5th International Conference on Inventive Research in Computing Applications, Coimbatore, India, 2023.
- M. R. Thanka, K. S. Ram, S. P. Gandu, E. B. Edwin, V. Ebenezer and P. Joy, "Comparing Resampling Techniques in Stroke Prediction with Machine and Deep Learning," 2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS), Coimbatore, India, 2023, pp. 1415-1420, doi: 10.1109/ICSCSS57650.2023.10169237
- Sangeetha, R., Joy, R. P., Denisha, M., & Dhas, J. P. M.. (2023). An Innovation Detection of Vulnerabilities for Digital Transactions in Financial Institutions Using Cyber Security Framework. International Journal of Intelligent Systems and Applications in Engineering, 11(3), 70–76.
- Selvakumar, R., Shibu, S. ., Joy, R. P. ., R, R. C. ., Kumar, C. R. ., & Kamatchi, S. (2023). A Federated Consensus for Proof of Authority in IoT-Blockchain Applications. International Journal on Recent and Innovation Trends in Computing and Communication, 11(9), 328–334. <https://doi.org/10.17762/ijritcc.v11i9.8358>
- Ganesh, N., Arulkumar, V., Lathamanju, R., & Joy , P. (2023). Energetic and highly reliable photovoltaic power source assisted water pump control system design using IoT. The Scientific Temper, 14(04), 1289–1294. <https://doi.org/10.58414/SCIENTIFICTEMPER.2023.14.4.34>

#### Projects Guided

- Improved security in wireless networks
- Enhanced EAP-Based Pre-Authentication for Fast and Secure Inter-ASN Handovers in MANET
- Enhanced DMP Packet Scheduling for Wireless Sensor Networks
- CAMPERBOT – Free Code Camp Status Viewer
- Set-Top Box Automation Testing Software
- Marketing Executive Progress Analyzer
- Banking Bot
- online shop engine using RPA
- Automatic Traffic Control Using Machine Learning

#### Memberships in Professional societies

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- IAENG

- Reviewer in International Journal of Communication Systems (Annexure 1

Journal) Significant achievements:

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- Received award for securing 100% in OOSD subject and two PG handled subjects
- Reviewed two papers in International Journal of Communication Systems (Annexure 1 Journal)
- Reviewed more numbers of papers for the reputed journals