

Faculty Profile

Ms. M.Bhuvaneshwari

Assistant Professor,
Division of Data Science and Cyber Security
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Academic Background

| Degree | University | Year |
|--------|---|----------|
| Ph.D | Karunya Institute of Technology and Sciences | Pursuing |
| M.E | Velalar College of Engineering and Technology | 2015 |
| B.E | M.P.Nachimuthu M.Jeganathan Engineering College | 2013 |

Courses Taught

- Artificial Intelligence
- C Programming
- Python Programming

Research Interests

- Machine Learning
- Brain Computer Interface

Most recent Publications

1. G. S. Mouni, E. G. Mary Kanaga, M. Bhuvaneshwari and S. P. Gandu, "An Experimental Investigation on the Classification Accuracy of Visual, Audio and Cognitive Stimuli-based EEG Signals for BCI Application," *2023 International Conference on Inventive Computation Technologies (ICICT)*, Lalitpur, Nepal, 2023, pp. 982-987, doi: 10.1109/ICICT57646.2023.10134045.
2. M. Bhuvaneshwari, E. Grace Mary Kanaga, J. Anitha, "Bio-inspired Red Fox-Sine cosine optimization for the feature selection of SSVEP-based EEG signals for BCI applications", *Biomedical Signal Processing and Control*, Volume 80, Part 1, 2023, 104245, ISSN 1746-

8094, <https://doi.org/10.1016/j.bspc.2022.104245>.

3. Bhuvaneshwari M., Grace Mary Kanaga E., George S.T. , "Classification of SSVEP-EEG signals using CNN and Red Fox Optimization for BCI applications", Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 237 (1), pp. 134 - 143, 2023. DOI: 10.1177/09544119221135714
4. M.Bhuvaneshwari, Dr.E.Grace Mary Kanaga, Dr.J.Anitha, Dr.Kumudha Raimond, Dr.S.Thomas George, "A Comprehensive Review on Machine Learning and Deep Learning Techniques for BCI based Communication System", Machine Learning and Deep Learning frameworks for Healthcare Systems
5. M.Bhuvaneshwari, Dr.E.Grace Mary Kanaga, "Classification of VEP based EEG signals using Time and Time-Frequency Domain Features", International Conference on Intelligent Data Communication Technologies and Internet of Things
6. M.Bhuvaneshwari, Dr.E.Grace Mary Kanaga, Dr.J.Anitha, "Enhanced Monotonic Activation Function in Convolutional Neural Network for Multi-class EEG Signal Classification", International Conference on Big Data and Cloud Computing (ICBDCC-21)
7. M. Bhuvaneshwari and E. G. M. Kanaga, "Convolutional Neural Network for Addiction Detection using Improved Activation Function," 2021 5th International Conference on Computing Methodologies and Communication (ICCMC), 2021, pp. 996-1000, doi: 10.1109/ICCMC51019.2021.9418022.