

Faculty Profile



Name: Dr. VIJAYAKUMAR VARADARAJAN

Designation: Professor of Research

Research Interests: Inter Disciplinary Research, Multi-Disciplinary Research

Education:

- PHD CSE Anna University Chennai 2012
- ME CSE Madras University Chennai 2000
- BE CSE Madras University Chennai 1999
- DCTech CSE Department of Technical Education Chennai 1996
- MBA HRD Periyar University Salem 2007

Research / Selected Publications:

1. Energy-optimal Dynamic Computation Offloading for Industrial IoT in Fog Computing, IEEE Transactions on Green Communications and Networking, (7), DOI: 10.4108/eai.13-7-2018.162689
2. A Deep Learning Model Based on BERT and Sentence Transformer for Semantic Keyphrase Extraction on Big Social Data, Institute of Electrical and Electronics Engineers (IEEE) in IEEE Access, pp 1-1, 2021
3. Using Genetic Algorithm in Inner Product to Resist Modular Exponentiation from Higher Order DPA Attacks, IEEE Access, 2021
4. Cervical Cancer Diagnostics Healthcare System Using Hybrid Object Detection Adversarial Networks, IEEE Journal of Biomedical and Health Informatics, 2021 doi: 10.1109/JBHI.2021.3094311
5. Intrusion Prevention System for DDoS Attack on VANET with reCAPTCHA Controller Using Information Based Metrics, IEEE Access, 7, pp. 158481- 158491
6. S-PHiNe: Physics-Informed Multichannel Speech Enhancement Using Spectro-Spatial Fusion for Low-SNR Conditions, ICASSP 2026 - 2026 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Barcelona, Spain, 2026, pp. 19132-19136, doi: 10.1109/ICASSP55912.2026.11464982
7. LEARN TO UNLEARN IN LARGE LANGUAGE MODELS, IEEE International Conference on Acoustics, Speech, and Signal Processing, Spain 2026
8. Building an Authentic and Ethical Keyword Search by applying Decentralised (Blockchain) Verification, IEEE INFOCOM 2020 - IEEE Conference on Computer Communications Workshops
9. "An Effective Electronic waste management solution based on Blockchain Smart Contract in 5G Communities", IEEE 3rd 5G World Forum (5GWF)