Faculty Profile

Mr. J. Andrew, M.E., (Ph.D)
Assistant Professor,
Department of Computer Science and Engineering
andrewj@karunya.edu

Academic Background

Degree	University	Year
Ph.D	Vellore Institute of Technology, Vellore	Pursuing
M.E(Computer Science)	Anna University	2013
B.E(Computer Science)	Anna University	2011

Courses Taught

- Deep learning
- Machine learning and data analytics for mechanical engineers
- Advanced data mining
- Unix Architecture
- Object oriented programming in C++
- Perl and Python programming
- Programming for problem solving

Research Interests

- Healthcare data privacy
- Deep learning
- Machine learning
- Bigdata Security

Most recent Publications

- Andrew, J., and J. Karthikeyan. "Privacy-Preserving Big Data Publication:(K, L) Anonymity." *Intelligence in Big Data Technologies—Beyond the Hype*. Springer, Singapore, 2020. 77-88.

- Andrew, J., DivyaVarshini, M., Barjo, P., & Tigga, I. (2020, March). Spine Magnetic Resonance Image Segmentation Using Deep Learning Techniques. In *2020 6th International Conference on Advanced Computing and Communication Systems (ICACCS)* (pp. 945-950). IEEE.
- Bhushan, B., Sinha, P., Sagayam, K. M., & Andrew, J. (2020). Untangling blockchain technology: A survey on state of the art, security threats, privacy services, applications and future research directions. *Computers & Electrical Engineering*, 106897.
- Kadam, Abhishikt., Andrew. J "Vehicle automation and car-following models for accident avoidance." *Przegląd elektrotechniczny* 2020.1 (2020): 120-125.
- David, S., Andrew, J., Xavier, B., Joel Raj, I., & Jennifer Eunice, R. (2020). Improving Scalability and Balancing the Network Load Using Adaptive Multiparent Crossover Method in Wireless Sensor Networks. *Journal of Computational and Theoretical Nanoscience*, *17*(5), 2415-2420.
- Andrew, J., Shaun Shibu Mathew, and Batra Mohit. "A Comprehensive Analysis of Privacy-preserving Techniques in Deep learning based Disease Prediction Systems." *Journal of Physics: Conference Series*. Vol. 1362. No. 1. IOP Publishing, 2019.
- Andrew J and Karthikeyan J, “Privacy-Preserving Internet of Things: Techniques and Applications,” Int. J. Eng. Adv. Technol., vol. 8, no. 6, pp. 3229–3234, 2019.
- Andrew, J., & Fiona, R. (2019, May). Comparative Study of Various Deep Convolutional Neural Networks in the Early Prediction of Cancer. In *2019 International Conference on Intelligent Computing and Control Systems (ICCS)* (pp. 884-890). IEEE.
- Andrew, J., & Kathrine, G. J. W. (2018). An Intrusion Detection System Using Correlation, Prioritization and Clustering Techniques to Mitigate False Alerts. In *Advances in Big Data and Cloud Computing* (pp. 257-268). Springer, Singapore.

Projects Guided

- Internet of Things based Intelligent Accident Avoidance System for Adverse Weather and Road Conditions
- A deep learning based food calorie prediction mobile application
- Osteoarthritis Detection Using Deep Learning and Image Processing Techniques
- Skin cancer classification using pretrained deep learning model
- Spine Magnetic Resonance Image Segmentation Using Deep Learning Techniques
- Privacy-preserving Techniques in Deep learning based Disease Prediction Systems

Memberships in Professional societies

- Member of International Association of Engineers (IAENG)

Significant achievements:

-
-