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Employment History

















- 2015 – Present  **Professor**, Department of Computer Science and Engineering, CEG, Anna University.
- 2012 – 2015  **Associate Professor**, Department of Computer Science and Engineering, CEG, Anna University.
- 2009 – 2012  **Assistant Professor**, Department of Computer Science and Engineering, CEG, Anna University.
- 2003 – 2009  **Lecturer**, Department of Computer Science and Engineering, CEG, Anna University.
- 2000 – 2003  **Teaching Research Associate**, Department of Computer Science and Engineering, CEG, Anna University.








Education



- 2008  **Ph.D., Anna University** in Adhoc Networks.
Thesis title: *Trace based mobility model for QoS routing and resource sharing in mobile Ad Hoc Networks*
- 1999  **M.E., Madurai Kamaraj University** in Communication Systems.
- 1997  **M.E., Madurai Kamaraj University** in Electronics and Communication Engineering.

Research Publications






- 1 K. Hemalatha and V. Vetriselvi, "Self-supervised learning using diverse cell images for cervical cancer classification," *Measurement: Journal of the International Measurement Confederation*, vol. 243, 2025.  DOI: 10.1016/j.measurement.2024.116413.
- 2 A. G. A. and V. V., "Sentiment analysis on a low-resource language dataset using multimodal representation learning and cross-lingual transfer learning," *Applied Soft Computing*, vol. 157, 2024.  DOI: 10.1016/j.asoc.2024.111553.
- 3 A. Amaithi Rajan, V. V, M. Raikwar, and R. Balaraman, "Smedir: Secure medical image retrieval framework with convnext-based indexing and searchable encryption in the cloud," *Journal of Cloud Computing*, vol. 13, no. 1, 2024.  DOI: 10.1186/s13677-024-00702-z.
- 4 N. Bharathi, R. Parthasarathi, and V. Vetriselvi, "Deep learning based bursty traffic discrimination and management using sandpile model," *Journal of Scientific and Industrial Research*, vol. 83, no. 10, pp. 1075–1085, 2024.  DOI: 10.56042/jsir.v83i10.4981.
- 5 M. Dhanapani and V. Vetriselvi, "Service function chaining on sdn/nfv based programmable data plane," in *2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024*, 2024.  DOI: 10.1109/ICCCNT61001.2024.10724164.
- 6 M. Dhandapani, V. Vetriselvi, and R. Aishwarya, "Coopai-route: Drl empowered multi-agent cooperative system for efficient qos-aware routing for network slicing in multi-domain sdn," *CMES - Computer Modeling in Engineering and Sciences*, vol. 140, no. 3, pp. 2449–2486, 2024.  DOI: 10.32604/cmes.2024.050986.
- 7 A. Ganesh, L. Ravishankar, N. Sankar, D. Meignanamoorathi, and V. Vetriselvi, "Detection of link fabrication attacks in software-defined networks using dbscan," 2024.  DOI: 10.1109/ICCCNT61001.2024.10724900.

- 8 A. M, D. M, A. Amaithi Rajan, V. V, and H. D, "Edgeshield: Attack resistant secure and privacy-aware remote sensing image retrieval system for military and geological applications using edge computing," *Earth Science Informatics*, vol. 17, no. 3, pp. 2275–2302, 2024.  DOI: 10.1007/s12145-024-01256-z.
- 9 D. Meignanamoorthi and V. Vetrisevi, "Drl-based customised resource allocation for sub-slices in 6g network slicing," *Transactions on Emerging Telecommunications Technologies*, vol. 35, no. 7, 2024.  DOI: 10.1002/ett.5016.
- 10 P. Mohamed Ihsan, A. A. Rajan, V. Vetrisevi, G. Gautham Kumar, and R. Praveen Kumar, "Qcrypt: Advanced quantum-based image encryption for secure satellite data transmission," 2024.  DOI: 10.1109/ICEEICT61591.2024.10718453.
- 11 A. Aruna Gladys and V. Vetrisevi, "Survey on multimodal approaches to emotion recognition," *Neurocomputing*, vol. 556, 2023.  DOI: 10.1016/j.neucom.2023.126693.
- 12 S. Dhanasekar, D. Meignanamoorthi, and V. Vetrisevi, "Routing optimization using deep reinforcement learning in wireless software-defined edge network," 2023.  DOI: 10.1109/ICERCS57948.2023.10434088.
- 13 L. Jai Vinita and V. Vetrisevi, "Federated learning-based misbehaviour detection on an emergency message dissemination scenario for the 6g-enabled internet of vehicles," *Ad Hoc Networks*, vol. 144, 2023.  DOI: 10.1016/j.adhoc.2023.103153.
- 14 L. Jai Vinita and V. Vetrisevi, "Impact of sybil attack on software-defined vehicular fog computing (sdvf) for an emergency vehicle scenario," *Lecture Notes in Networks and Systems*, vol. 383, pp. 809–825, 2023.  DOI: 10.1007/978-981-19-4960-9_61.
- 15 H. K, V. V, M. Dhandapani, and A. G. A., "Cervixfuzzyfusion for cervical cancer cell image classification," *Biomedical Signal Processing and Control*, vol. 85, 2023.  DOI: 10.1016/j.bspc.2023.104920.
- 16 L. J. Vinita and V. Vetrisevi, "Seafl: Transforming federated learning for enhanced privacy in 6g-enabled vehicles," 2023.  DOI: 10.1109/AICERA/ICIS59538.2023.10420354.
- 17 K. Hemalatha and V. Vetrisevi, "A survey on cervical cancer detection and classification using deep learning," *IFIP Advances in Information and Communication Technology*, vol. 654 IFIP, pp. 18–29, 2022.  DOI: 10.1007/978-3-031-16364-7_2.
- 18 K. Hemalatha and V. Vetrisevi, "Deep learning based classification of cervical cancer using transfer learning," in *Proceedings of the 2022 International Conference on Electronic Systems and Intelligent Computing, ICESIC 2022*, 2022, pp. 134–139.  DOI: 10.1109/ICESIC53714.2022.9783560.
- 19 L. Jai Vinita and V. Vetrisevi, *A Survey on Security Aspects of Internet of Vehicles*. 2022, pp. 41–67.  URL: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85151029736&partnerID=40&md5=d3c534f10c1445df51d9237b55f8c831>.
- 20 V. J. Sudhakar, S. Mahalingam, V. Venkatesh, and V. Vetrisevi, "Phishing url detection and vulnerability assessment of web applications using ivs attributes with xai," *Lecture Notes in Networks and Systems*, vol. 314, pp. 933–944, 2022.  DOI: 10.1007/978-981-16-5655-2_89.
- 21 A. K. Murthy, R. Parthasarathi, and V. Vetrisevi, "Security testbed for next generation mobile networks," 2020, pp. 122–129.  DOI: 10.1109/ISEA-ISAP49340.2020.235010.
- 22 I. Ramesh, I. Sivakumar, K. Ramesh, V. P. P. Venkatesh, and V. Vetrisevi, "Categorization of youtube videos by video sampling and keyword processing," 2020, pp. 56–60.  DOI: 10.1109/ICCSP48568.2020.9182158.
- 23 V. Vetrisevi, S. Pragatheeswaran, V. Thirunavukkarasu, and A. R. Arun, "Preventing forgeries by securing healthcare data using blockchain technology," *Advances in Intelligent Systems and Computing*, vol. 933, pp. 151–159, 2020.  DOI: 10.1007/978-981-13-7166-0_15.

- 24 K. Archana Janani, V. Vetriselvi, R. Parthasarathi, and G. Subrahmanya VRK Rao, "An approach to url filtering in sdn," *Lecture Notes on Data Engineering and Communications Technologies*, vol. 15, pp. 217–228, 2019.  DOI: 10.1007/978-981-10-8681-6_21.
- 25 N. Bharathi, V. Vetriselvi, and R. Parthasarathi, "Mitigation of dos in sdn using path randomization," *Lecture Notes on Data Engineering and Communications Technologies*, vol. 15, pp. 229–239, 2019.  DOI: 10.1007/978-981-10-8681-6_22.
- 26 M. Harish, R. Karthick, R. Mohan Rajan, and V. Vetriselvi, "Securing coap through payload encryption: Using elliptic curve cryptography," *Lecture Notes in Electrical Engineering*, vol. 500, pp. 497–511, 2019.  DOI: 10.1007/978-981-13-0212-1_52.
- 27 K. Kirutika, V. Vetriselvi, R. Parthasarathi, and G. S. V. Rao, "Controller monitoring system in software defined networks using random forest algorithm," vol. 2019-October, 2019.  DOI: 10.1109/CCST.2019.8888369.
- 28 V. Vetriselvi, P. Shruti, and S. Abraham, "Two-level intrusion detection system in sdn using machine learning," *Lecture Notes in Electrical Engineering*, vol. 500, pp. 449–461, 2019.  DOI: 10.1007/978-981-13-0212-1_47.
- 29 V. Gowtham, R. Baratheraja, G. Jayabarathi, and V. Vetriselvi, "Collaborative intrusion detection system in sdn using game theory," *Lecture Notes in Networks and Systems*, vol. 24, pp. 589–601, 2018.  DOI: 10.1007/978-981-10-6890-4_58.
- 30 S. S, S. N. A, S. P. L, and V. V, "Intrusion detection system for software-defined networks using fuzzy system," *Lecture Notes in Networks and Systems*, vol. 24, pp. 603–620, 2018.  DOI: 10.1007/978-981-10-6890-4_59.
- 31 J. Venkatesh, V. Vetriselvi, R. Parthasarathi, and G. Subrahmanya Vrk Rao, "Identification and isolation of crypto ransomware using honeypot," 2018.  DOI: 10.1109/ICINPRO43533.2018.9096875.
- 32 S. Adithya, G. Gowtham Karthik, H. Hariharan, and V. Vetriselvi, "Assuaging cache based attacks in named data network," 2016, pp. 872–876.  DOI: 10.1109/WISPNET.2016.7566256.
- 33 V. Vetriselvi, C. Sugadev, P. Manimurugesan, N. Vignesh, and P. P. Rani, "E-mail application on named data networking using long lived interest," *Indian Journal of Science and Technology*, vol. 9, no. 8, 2016.  DOI: 10.17485/ijst/2016/v9i8/87970.
- 34 S. Giri, A. Josyula, and V. Vetriselvi, "An e-mail application on named data networking," *Advances in Intelligent Systems and Computing*, vol. 325, pp. 779–787, 2015.  DOI: 10.1007/978-81-322-2135-7_82.
- 35 B. Saranya and V. Vetriselvi, "Utilization of resources effectively by using an economic based model in opportunistic networks," 2014.  DOI: 10.1109/ICCCI.2014.6921758.
- 36 S. Sowmya and V. Vetriselvi, "Data collection in spatially separated areas using wireless sensor networks," 2014.  DOI: 10.1109/ICCCI.2014.6921833.
- 37 B. Poonguzharselvi and V. Vetriselvi, "Survey on routing algorithms in opportunistic networks," 2013.  DOI: 10.1109/ICCCI.2013.6466129.
- 38 V. Vetriselvi and S. Rangarajan, "Load balancing in qos aware mobile ad hoc grid," 2013.  DOI: 10.1109/ICCCI.2013.6466305.
- 39 N. Santosh, R. Saranyan, S. Kumar P, and V. Vetriselvi, "Cluster based co-operative game theory approach for intrusion detection in mobile ad-hoc grid," 2008, pp. 273–278.  DOI: 10.1109/ADCOM.2008.4760460.
- 40 V. Vetriselvi and R. Parthasarathi, "Trace based mobility model for ad hoc networks," 2007.  DOI: 10.1109/WIMOB.2007.4390875.

- 41 S. Prasanna and V. Vetrivel, "An improved intrusion detection technique for mobile adhoc networks," *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, vol. 3816 LNCS, pp. 364–376, 2005.  DOI: 10.1007/11604655_42.
- 42 V. Vetrivel and R. Parthasarathi, "Secure communication for multi-path ad-hoc network," vol. 2, 2003, pp. 1086–1090.  URL: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-2342547067&partnerID=40&md5=042f677164e724bc054724ccdec20be4>.

Guidance



Jai Vinita L	 Security in IoV (Thesis Submitted)
Hemalatha	 Medical Image Processing (Thesis Submitted)
Meignaanamoorthi D	 Next Generation Networks (Thesis Submitted)
Bharathi N A	 Network Security (Thesis Submitted)
Aruna Gladys	 Multimodal sentiment Analysis (Ongoing)
Arun Amaithi Rajan	 Secure Multimedia Storage and Retrieval (Ongoing)
Aishwarya R	 Effective IoV Protocols (Ongoing)

Miscellaneous Experience

Awards and Achievements

2024	 Best Paper Award , International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT 2024)
	 Best Paper Award , International Conference on Computational Intelligence in Data Science (ICCIDS - 2023)
2018	 Best Paper Award , IEEE Fourteenth International Conference on Information Processing, India
2014	 Best Project Award , TCS, India

Membership

1999 - Present	 The Institution of Electronics and Telecommunication Engineers
	 The Indian Society for Technical Education