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**Ms. V. Mahavaishnavi** is working as Assistant Professor in the Department of Computer Science and Engineering at SRMIST, Ramapuram campus. She is pursuing her Ph. D degree in the field of Cloud Computing from Annamalai University, Chidambaram since 2021. She has good programming skills and technical skills. She is certified in various courses from NPTEL. She has published many articles in National and International Journals, presented papers in National and International Conferences and also attended many seminars, workshops, webinar and FDP's.

**Area of Research:**

Cloud Computing

**Selected Publications:**

1. Mahavaishnavi V, Dr. Saminathan, R & Prithviraj R, 2023, "Securing Containerized Environments: A Comprehensive Analysis of Runtime Security Mechanisms", Journal of Research Administration, Vol. 5, No. 2, pp. 1933 - 1949.
2. Mahavaishnavi V, Dr. Saminathan, R & Prithviraj R, 2023, "Container Security Intelligence: Leveraging Machine Learning for Anomaly Detection in Containerized Applications", Journal of Propulsion Technology, Vol. 44, No. 3, pp. 3717 - 3730.
3. Mahavaishnavi V, Saminathan, R & Nivetha S, 2023, "A Novel USLW based Integration Algorithm for Optimized Demandable Resource Provisioning in Hybrid Cloud Services", Journal of Data Acquisition and Processing, vol. 38(2), pp. 2677 – 2694.
4. Mahavaishnavi V, Saminathan, R & Anbalagan P, 2022, "A Stegano-Cryptography Framework for Securing Cloud Data with Enhanced Monarch Butterfly Optimization", International Journal Of Engineering Research & Technology (IJERT), vol. 11, Issue 8, pp. 12 – 21.
5. Nivetha S, Saminathan R & Mahavaishnavi V, 2022, "Edge Computing Security using Zero Trust Edge Access", Journal of Northeastern University, vol. 25, no. 04, pp. 359 – 376.
6. Nivetha S, Saminathan R & Mahavaishnavi V, 2022, "Insider Threats Detection System for Cloud Computing Environment (CC) using Deep Convolutional Neural Network", Advanced Engineering Science, vol. 54, no. 02, pp. 5807 – 5825.

7. Abirami B, Subashini T S & Mahavaishnavi V, 2020, “Automatic age-group estimation from gait energy images”, *Materials Today: Proceedings* (Elsevier), 33, pp. 4646 - 4649.
8. Abirami B, Subashini T S & Mahavaishnavi V, 2020, “Gender and age prediction from real time facial images using CNN”, *Materials Today: Proceedings* 33 (Elsevier), pp. 4708 - 4712.
9. Abirami B, Subashini T S, Mahavaishnavi V & M. S. Prashanth, 2021, “GAIT based Automatic Human Gender Prediction”, *Turkish Online Journal of Qualitative Inquiry (TOJQI)*, Volume 6, pp. 6187- 6192.
10. Mahavaishnavi V, Dr. R. Saminathan & Prithviraj R, 2023, “Secure Container Orchestration: A Framework for Detecting and Mitigating Orchestrator - Level Vulnerabilities” (Elsevier), *Advances in Engineering Software*. (Under Review)

#### **International Conferences:**

1. V. Mahavaishnavi, Dr. R. Saminathan and Dr. S. Saravanan, “Task Migrations in a Cloud Computing Virtual Machine Using Cauchy Swarm Optimization Techniques”, *IEEE Sponsored 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE 2022)*, organized by Department of Electrical and Electronics Engineering, Galgotias College of Engineering & Technology (GCET), Greater Noida, Knowledge Park – II, Uttar Pradesh, India during 28th and 29th April 2022, pp. 2417 - 2421.
2. S. Nivetha, V. Mahavaishnavi and Dr. R. Saminathan, “An Enhanced Data Handling Architecture for Privacy Preservation of Cloud Computing”, *International Virtual Conference on Computational Intelligence, Communication and Informatics (IVC – CICI’21)*, organized by Department of Computer Science and Engineering, FEAT, Annamalai University, Annamalainagar, Chidambaram, Tamil Nadu, India during 4th and 5th October 2021, pp. 21 - 26.
3. Abirami B, Dr. Subashini T S & Mahavaishnavi V, “Automatic Race and Age-Group Estimation using Frontal Facial Images”, *International Conference on Advances in Computing and Information Technology (ICACIT ‘19)*, organized by Department of Computer Science and Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalainagar, Chidambaram, Tamil Nadu, India during 24th and 25th September 2019, pp. 156 - 160.
4. Abirami B, Dr. Subashini T S & Mahavaishnavi V, “Automatic Age-Group Estimation from GAIT Energy Images”, *International Conference on Advances in Computing and Information Technology (ICACIT ‘19)*, organized by Department of Computer Science and Engineering, Faculty of Engineering and Technology, Annamalai University,

Annamalainagar, Chidambaram, Tamil Nadu, India during 24th and 25th September 2019, pp. 202 - 206.

**National Conferences:**

1. Mahavaishnavi V, Prithviraj R & Dr. R. Saminathan, “Securing Cloud-Enabled Edge Devices with Zero Trust Architecture”, National Conference on Innovation Technologies in Engineering and Research (NCITER - 2023), organized by Department of Information Technology, AVC College of Engineering, Mayiladuthurai, Tamil Nadu, India during 10th March 2023.
2. Mahavaishnavi V, Prithviraj R & Dr. R. Saminathan, “Digital Divides and Cyber Security Challenges: Bridging the Socioeconomic Gap in India”, ICSSR Sponsored National Seminar on Securing Societal Welfare in the Digital Age: A Social Science Perspective on Cyber Security Challenges in India, organized by Department of Information Technology, AVC College of Engineering, Mayiladuthurai, Tamil Nadu, India during 5th and 6th October 2023.
3. Abirami B, Dr. Subashini T S & Mahavaishnavi V, “Real Time Age and Gender Prediction using CNN”, National Conference on Advances in Science, Humanities and Technology (NCASHT - 2020), organized by Institute of Science and Humanities, Saveetha School of Engineering, SIMATS, Chennai, Tamil Nadu, India during 12th and 13th March 2020.
4. Mahavaishnavi V, Dr. Saminathan, R & Prithviraj R, “Deep Learning - based Resource Allocation Optimization in Cloud Computing Environments”, National Level Conference on Revolutionizing Computer Engineering: Trends and Technologies (RCETT24), organized by Department of Computer Science and Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalainagar, Chidambaram, Tamil Nadu, India during 22nd February 2024, ISBN 978-93-340-1651-2, pp. 201 – 208.

**Google Scholar:**

[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=mahavaishnavi&btnG=](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=mahavaishnavi&btnG=)

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