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Dr.Vani R Working as an Professor in the Department of ECE at SRMIST, Ramapuram. She Graduated in Electronics and Communication Engineering at Bharathiyar University, Coimbatore, Tamilnadu, India. She secured Master of Engineering in Communication Systems at Anna University, Chennai, India. She Pursued Ph.D. in the field of Image Processing at Anna University, Chennai, India. She is in teaching profession for more than 20 years. She has presented number of papers in National and International Journals, Conference and Symposiums.

Areas of Research:

Image Processing, Deep Learning, IoT, Medical data Analysis

Selected Publications:

Web of Science/SCI/ Scopus

1. Rakesh, Geethalakshmi, and Vani Rajamanickam. "A Novel Deep Learning Algorithm for Optical Disc Segmentation for Glaucoma Diagnosis." *Traitement du Signal* 39, no. 1 (2022): 305.
2. Bhavani, Nallamilli PG, and R. Vani. "Design and implementation of hybrid energy sources with fuzzy neuro control for DC micro grid system used for electric vehicle." *International Journal of Heavy Vehicle Systems* 29, no. 2 (2022): 107-120.
3. Rajesh, A., R. Vani, and B. Rama Rao. "Performance Analysis of Rectangular Microstrip Wearable Textile Antenna with Series of Slots." *Journal of Communications* 17, no. 5 (2022).
4. Vani, R., J. C. Kavitha, and D. Subitha. "Novel approach for melanoma detection through iterative deep vector network." *Journal of Ambient Intelligence and Humanized Computing* (2021): 1-10.
5. D.Subitha, R.Vani, Sahile, Kibebe. "Development of Novel Nano-Silver-Based Antenna for Green Agriculture." *Advances in Materials Science and Engineering 2021* (2021): 1-9.
6. Saranyadevi, G., R. Vani, and V. N. Bhargavee. "Waste Disposal Management System for Smart City Using LoRa." *Journal of Advanced Research in Dynamical and Control Systems* 12 (2020): 1360-1364.
7. Subitha, D., Vani, R., Angeline, R., Automation of transportation process using iot for enhanced production, *Journal of Green Engineering*, 2020, 10(11), pp. 11031 - 11039

8. Vani, R., and M. Sangeetha. "A new hybrid search algorithm with novel cross-diagonal-hexagon search video coding algorithm for block motion estimation." *Wireless Personal Communications* 88, no. 2 (2016): 211-222.
9. Vani, R., and M. Sangeetha , An hybrid motion estimation algorithm for video coding standards *International Journal of Applied Engineering Research* Volume 10, Issue 2, Pages 4885 - 4894 2015

Patents:

1. Method and system for independent control of multiple devices using hand gestures in home automation, Patent number 202241005699, Publication date: 20/05/2022.
2. Assistive Cap for Visually Challenged people, Patent number 202241052855 A Publication Date 30/09/2022
3. A scalable infrastructure for enhanced crop protection relying on blockchain and deep neural networks, Patent number 202241069922, Publication Date 09/12/2022.

Books/Book Chapters Published:

1. Saranyadevi, G., R. Vani, A. Jeshron Sonali, and S. Minoviya. "Smart Irrigation for Enhanced Agriculture Production Using IoT." In *Computational Intelligence in Machine Learning: Select Proceedings of ICCIML 2021*, pp. 289-299. Singapore: Springer Nature Singapore, 2022
2. Geethalakshmi, R., R. Vani, and Meenalosini Vimal Cruz. "A Study of Glaucoma Diagnosis Using Brain-Computer Interface Technology." In *Computational Intelligence in Machine Learning: Select Proceedings of ICCIML 2021*, pp. 271-279. Singapore: Springer Nature Singapore, 2022
3. Sivakumari, T., and R. Vani. "Implementation of AlexNet for Classification of Knee Osteoarthritis." In *2022 7th International Conference on Communication and Electronics Systems (ICCES)*, pp. 1405-1409. IEEE, 2022
4. Angeline, R., R. Vani, A. Jeshron Sonali, and Dosapati Anhiti Rao. "Automated Detection of Cataract Using a Deep Learning Technique." In *Computational Intelligence in Machine Learning: Select Proceedings of ICCIML 2021*, pp. 399-408. Singapore: Springer Nature Singapore, 2022.
5. Vani, R., and R. Angeline. "Robot with Dual-Axis Writing Control in Service of Disabled People." In *Advances in Mechanical Engineering: Select Proceedings of CAMSE 2020*, pp. 559-566. Springer Singapore, 2021.
6. Subitha, D., and R. Vani. "Analysis of linear precoding techniques for massive MIMO-OFDM systems under various scenarios." In *IOP Conference Series: Materials Science and Engineering*, vol. 1084, no. 1, p. 012053. IOP Publishing, 2021.

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