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Reshma P Vengaloor is working as Assistant Professor in the Department of Electronics and Commuication Egineering in SRM Institue of Science and Technology, Ramapuram, Chennai, India. She completed her B.Tech degree in the stream of ECE from College of Engineering, Kidangoor, Kerala in 2013 and M.Tech with specialization VLSI and Embedded System in 2016 from TKM Institute of Technogy, Kollam, Kerala. She is currently pursuing her Ph. D under SRM Institute of Science and Technology. Her research areas includes image procssing with deep learning. She has totally 4 years of experince in teaching field.

Areas of Research: Image processing with Deep learning

Publications:

1. **Reshma, P. Vengaloor**., Roopa, Muralidhar., "Deep Learning Based Semantic Segmentation Technique for Anomaly Detection on Metal Surfaces using High Calibre U- Shaped Network," *Traitement du Signal*, Vol. 39, No. 6, December, pp. 2023-2031,2022.
2. **Reshma Vengaloor**., and Roopa Muralidhar., "Deep Learning Based Feature Discriminability Boosted Concurrent Metal Surface Defect Detection System Using YOLOv-5s-FRN", International Arab Journal of Information Technology, Vol.21, No. 1, January 2024.
3. **Reshma P Vengaloor**, Roopa M., "Smart Farming Using IOT: The Surveillance and the Regulation of Agricultural Area",Bull. Env. Pharmacol. Life Sci., Vol 10[11] October 2021: 206-212.
4. **Reshma P Vengaloor**, Aparna Ajay, Ashrith Sriram Raju, Dhanush S., "AQUA ROVER", Journal of Electronics and Informatics, Volume 4, Issue 1, pp. 58-64, 2022.
5. Roopa M, B. Padmavathi, M. Aarhi Elaveini and **Reshma P Vengaloor**, "Gurney System: A New Paradigm for Health Monitoring System Using Internet of Things", International Journal of Future Generation Communication and Networking, Vol.13 No. 3, p. 3961-3970, 2020.

6. Judy Simon, Ushus S. Kumar, M. Aarthi Elaveini, **Reshma P Vengaloor** and P. Phani Kumar., "ATM Security using Iris Recognition", Mobile Computing and Sustainable Informatics, pp 97- 108, 2022.
7. Ushus S Kumar, Judy Simon, **Reshma P Vengaloor**, Aarthi Elaveini, "Image Processing Techniques in Thermal and Non-Thermal Images", Lectuere Notes in Networks and Systems, 2021.
8. A. Punitha, S Raghupathi, Bharathy R, **Reshma P Vengaloor**, "Wireless Ad-HoC & Sensor Networks", Emerging Technologies in Engineering Research, Technical Research Publications (ISBN:978-93-5419-211-1 (Online), 2020.

International Conferences:

1. **Reshma P Vengaloor,** Karthika Manilal, "PERFORMANCE IMPROVED ROUTER ARCHITECTURE FOR BIDIRECTIONAL NoC (BiNoC) USING FLITLEVEL SPEED UP SCHEME" in 7th International Conference on Emerging Trends in Engineering and Technology, IFERP, Trivandrum,2016. **(Best research paper award).**
2. **Reshma P Vengaloor**, Roopa Muralidhar, "Smart Farming Using IoT: Surveillance and Regulation of agricultural Area", International Conference on Innovations in Smart Technology, Advanced Materials and Communication Engineering (ISTAMCE 2021), AMITY University, Gwalior, 2021.
3. **Reshma P Vengaloor**, Roopa Muralidhar, "Semantic Segmentation based Automatic Surface Defect Detection System for White-Goods Logistics Industries using Modified U-NET architecture", International Conference on Research in Electronics and Communication Techniques (ICREACT'23), SRMIST, Vadapalani, Chennai, 2023.
4. **Reshma P Vengaloor**, Roopa Muralidhar, "Automatic Surface Defect Detection System for White-Goods Logistics Industries using mU-NET", 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA 2023), RVS Technical Campus, Coimbatore, 2023.

Patents:

1. Judy Simon, Kapileswar N, B Padmavathi, Phanikumar Polasi, Aarthi Elaveni, **Reshma P Vengaloor**, P Sai Theja, N Uttam Reddy, B Akhil Jaichandra Reddy and V Serena Rajam, Indian patent publication number 50/2021 entitled "Power Sharing and Eco-Friendly Smart Connected Vehicle System Driven by Hybrid Renewable Energy and IoT for highways".

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