Dr.V.R.Vijay Kumar

Associate Professor & Head

Electronics and Communication Engineering

Anna University Regional Campus Coimbatore

Coimbatore- 641 046.

LAST FIVE YEAR PUBLICATIONS

List of Journal Publications:-

1. R Saravanakumar, VR Vijaykumar, "A compacted triple band antenna design for GSM, Wi-Fi and WiMAX communication schemes for information computation system" International Journal of Business Information Systems 34 (1), pp.40-58,2020.

2. V Sureshkumar, R Amin, VR Vijaykumar, SR Sekar , "Robust secure communication protocol for smart healthcare system with FPGA implementation" Future Generation Computer Systems Vol.100, pp.938-951,2019.

3. Vijaykumar V R, Raja Sekar S, Elango S, Ramakrishnan S, "Implementation of $2^n - 2^k - 1$ Modulo Adder Based RFID Mutual Authentication Protocol" IEEE Transactions on Industrial Electronics,Vol.65, No 1, pp.626 – 635,Jan. 2018. ", (DOI: 10.1109/TIE.2017.2711864)

4. V Murugan, VR Vijaykumar, "Automatic Moving Vehicle Detection and Classification Based on Artificial Neural Fuzzy Inference System" Wireless Personal Communications Vol.100 No.3, pp.745-766,2018

5. K Ashok, A Kalaiselvi, VR Vijaykumar, "Adaptive impulse detection based selective window median filter for removal of random-valued impulse noise in digital images", COMPEL-The international journal for computation and mathematics in electrical and electronic engineering, Vol. 35 No. 5, pp. 1604-1616. https://doi.org/10.1108/COMPEL-04-2016-0140 ,2016

6. V.R.Vijaykumar, G Santhanamari, S Elango "VLSI Architecture of Switching Median Filter for Salt and Pepper Noise Removal." *IAENG International Journal of Computer Science*, Vol.14, No 1, 2016.

7. K Ashok, VR Vijaykumar, "Adaptive Window Based Multi Stage Impulse Noise Detection for Removal of Random Valued Impulse Noise in Digital Images" *Asian Journal of Information Technology*,Vol.15, No.3,pp.635-638,2016

8. V.R. Vijaykumar, G. Santhana Mari, D. Ebenezer, "Fast switching based median– mean filter for high density salt and pepper noise removal" *AEU - International Journal of Electronics and Communications*, Volume 68, Issue 12,2014,Pages 1145-1155, , https://doi.org/10.1016/j.aeue.2014.06.002.

List of Conference Publications:-

1. V Murugan, VR Vijaykumar, A Nidhila, "A Deep Learning RCNN Approach for Vehicle Recognition in Traffic Surveillance System" *2019 International Conference on Communication and Signal Processing (ICCSP), pp.0157-0160*,IEEE,2019.

2. V Murugan, VR Vijaykumar, SV Selvan , "Background subtraction algorithm and image skeletonization based anomaly event detection for low resolution video" *2017 Fourth International Conference on Signal Processing, Communication and Networking (ICSCN)*,pages1-6,IEEE,2017.

3. VR VijayKumar, V Suresh Babu, "Histogram shifting based reversible data hiding with controlled contrast enhancement" *2017 Third International Conference on Biosignals, Images and Instrumentation (ICBSII)*, Pages1-6,IEEE,2017.

4. V. R. Vijaykumar, R. Reghunath, S. Rajasekar and S. Elango, "A novel lightweight and low power tag-reader mutual authentication protocol for portable RFID based security systems," *2016 IEEE Industrial Electronics and Applications Conference (IEACon)*, Kota Kinabalu, 2016, pp. 360-365, doi: 10.1109/IEACON.2016.8067405 .

5. V. R. Vijaykumar and S. Sangamithirai, "Rail defect detection using Gabor filters with texture analysis," *2015 3rd International Conference on Signal Processing, Communication and Networking (ICSCN)*, Chennai, 2015, pp. 1-6, doi: 10.1109/ICSCN.2015.7219838.