



Gokaraju Rangaraju Institute of Engineering and Technology

(Autonomous)

Department of Electronics and Communication Engineering

Publication Details

YEAR 2019-2020

No. of Publications			No. of Conference proceedings	
SCI	SCOPUS	UGC	SCOPUS	UGC
10	24	0	22	0

JOURNAL PUBLICATIONS

SCI JOURNALS:

1. Priyadharshni, M., Chathalingathu, A., Kumaravel, S., Manoharan, A., **Veeramachaneni, S.**, & Mahammad, S. N. (24, April, 2020). Logically Optimal Novel 4: 2 Compressor Architectures for High-Performance Applications. *Arabian Journal for Science and Engineering*, 1-11.
2. Mounica, C., Krishna, S., **Veeramachaneni, S.**, & Mahammad S, N (March,2020). Efficient implementation of mixed-precision multiply-accumulator unit for AI algorithms. *International Journal of Circuit Theory and Applications*.
3. Kanithan, S., **Vignesh, N. A.**, Karthikeyan, E., & Kumareshan, N. (March, 2020). An intelligent energy efficient cooperative MIMO-AF multi-hop and relay based communications for Unmanned Aerial Vehicular networks. *Computer Communications*, 154, 254-261.
4. **Swaraja, K.**, Meenakshi, K., & Kora, P. (jan,2020). An optimized blind dual medical image watermarking framework for tamper localization and content authentication in secured telemedicine. *Biomedical Signal Processing and Control*, 55, 101665.
5. **Valiveti, H. B.**, & Kumar, B. A. (jan, 2020). Handoff strategies between wireless fidelity to light fidelity systems for improving video streaming in high-speed vehicular networks. *International Journal of Communication Systems*, e4285.

6. **Panigrahy, A. K.**, Ghosh, T., Vanjari, S. R. K., & Singh, S. G. (Dec,2019). Surface Density Gradient Engineering Precedes Enhanced Diffusion; Drives CMOS In-Line Process Flow Compatible Cu–Cu Thermocompression Bonding at 75° C. *IEEE Transactions on Device and Materials Reliability*, 19(4), 791-795.
7. **Swamy, T. J.**, Ramamurthy, G., & Nayak, P. (18 november, 2019). Optimal, Secure Cluster Head Placement Through Source Coding Techniques in Wireless Sensor Networks. *IEEE Communications Letters*, 24(2), 443-446.
8. **Kuraparthi, S.**, Kollati, M., & Kora, P. (Nov, 2019). Robust Optimized Discrete Wavelet Transform-Singular Value Decomposition Based Video Watermarking. *Traitement du Signal*, 36(6), 565-573.
9. **Jamal, K.**, Chari, K. M., & Srihari, P. (November,2019). Test pattern generation using thermometer code counter in TPC technique for BIST implementation. *Microprocessors and Microsystems*, 71, 102890.
10. **Budati, A. K.**, & Valiveti, H. (16 August 2019 2019). Identify the user presence by GLRT and NP detection criteria in cognitive radio spectrum sensing. *International Journal of Communication Systems*, e4142.

SCOPUS INDEXED JOURNALS:

1. Banu, S. S., Bindu, C. H., Kranthi, M., & **Jamal, K.**(june,2020) Fusion of Images using BCV and DWT. *Synthesis*, 3(1/2), 4.
2. **T. Pavani**, Ch. Usha kumarai, A. Naga Jyothi, Y. Rajasree Rao, Taha Ahmed (April 2020),Investigations on metamaterial based log periodic dipole antenna, *Test Engineering and Management*, Volume 83pp: 9005 - 9007
3. **M.Suneetha** ,M.S.Rao, (April,2020) An Improved denoising of medical images based on hybrid filter approach and assess quality metrics.in *Journal of Bioinformatics and Biological Engineering(JBBE)*, ISSN2277-8616
4. Kumar, N. U., **Ushasree, A.**, Tirumala, R., PS, S. K., & KS, A. (March-April2020). Skin Tone Recognition and Face Detection using Local Binary Pattern and Sparse Coding
5. Rathi,A, **Usha Kumari**, C.Raghunath, S.Neela,(Feb,2020) Lung Cancer detected from computed tomography using marker controlled watershed, *Test Engineering and Management*, 82, pp. 2378
6. Laxmi Lydia E, Murthy A.S.D, **Usha Kumari C**, Vignesh N.A., Padma T, (Feb,2020,) “ Health care protection and empowerment of Internet of things through big data, *Test Engineering and Management*, , Volume 82, Issue 1-2, Pages 1187-1196
7. Neela T, **Usha Kumari C**, , C. Raghunath, Rathi (Febrary, 2020) A, “Image encryption and decryption using chaotic bit level pixel permutation , *Test Engineering and Management*, 82, pp. 2738-2751
8. Koduru, A., **Valiveti, H. B.**, & Budati, A. K. (jan,2020). Feature extraction algorithms to improve the speech emotion recognition rate. *International Journal of Speech Technology*, 23(1), 45-55.

9. Monika, M.K., **Vignesh, N.A.**, Panigrahy, A.K., Kumari, C.U,(jan,2020) Survey on localization techniques in wireless sensor networks, Test Engineering and Management.
10. **Vishnubhatla.A**(November, 2019), Simple IOT simulation, IJTEE, 9(1), pp. 3328-3330
11. **Vishnubhatla.A**(November, 2019) Unit testing of ETSI DECT codec, IJTEE, 9(1),pp. 2720-2722
12. **Vishnubhatla.A**(November,2019), Simulating multimedia IOT, IJTEE, 9(1), pp. 2706-2708
13. Leelavanthi, C., **Padmavathi, K.**, Swaraja, K., Meenakshi, K., & Samson, M(October,2019) IoT Based Smart Surveillance System for Healthcare Monitoring using Raspberry PI, IJTEE
14. Rakesh, G., **Kora, P.**, Swaraja, K., Meenakshi, K., & Karuna (October,2019), G. Gsm Based Face Recognition using Pir Sensor on Raspberry Pi 3, IJTEE 2019
15. N.Kumareshan, N.Prakash, **N.Arun Vignesh**, G.Kumaran (October 2019) “Performance Analysis of Various Routing Protocols for VANET Environments”, International Journal of Innovative Technology and Exploring Engineering (IJITEE)ISSN: 2278-3075,Volume-8 Issue-12, (Scopus)
16. Ankita, R., **Kumari, C. U.**, Mehdi, M. J., Tejashwini, N., & Pavani, T. (September 2019). Lung Cancer Image-Feature Extraction and Classification using GLCM and SVM classifier. *International Journal of Innovative Technology and Exploring Engineering*, 8(11), 2211-2215.
17. **Usha Kumari**, Madhusudhana Rao, Kumar M.N.V.S.S, Pinniti K, Prasad Reddy M.P., (September, 2019) Benign and malignant tumor classification using machine learning technique, International Journal of Recent Technology and Engineering Open AccessVolume 8, Issue 3, September Pages 7731-7735
18. Yasasvy, T., Sushil, K. V., **Meenakshi, K.**, Swaraja, K., & Kora, P. (September,2019). A hybrid blind watermarking with redundant discrete wavelet and Hadamard transform. *International Journal of Innovative Technology and Exploring Engineering*, 8(11), 2216-2220.
19. **Kumari, C. U.**, Vignesh, N. A., Panigrahy, A. K., Ramya, L., & Padma, T(August,2019) Fungal Disease in Cotton Leaf Detection and Classification using Neural Networks and Support Vector Machine. *Entropy*, 1(2.3965831), 3-0200073.
20. Nikhila P, **Valiveti Hima Bindu**, Suseela R.S.U, Chowdary C.P.”(August,2019)Improved selection of V2v Communication asset for lte, International Journal of Engineering and Advanced Technology”,2019.
21. **Kora, P.**, Meenakshi, K., Swaraja, K., Rajani, A., & Islam, M. K. (August,2019). Detection of Cardiac arrhythmia using fuzzy logic. *Informatics in Medicine Unlocked*, 17, 100257.
22. Venkateswara Rao Varri, **N Arun Vignesh**, Asisa Kumar Panigrahy, CH Usha Kumari(August,2019),“Implementation of Low density Parity Check system using Probabilistic Gradient Descent Bit Flipping Decoder”, International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Volume-8 Issue-10, August 2019 .
23. **Swaraja K**, Meenakshi K, Padmavathi kora, Mamatha Samson, Karuna G, Ushasri A, (July 2019)A secure architecture of design for testability structures, International Journal

of Recent Technology and Engineering, Open Access, Volume 8, Issue 2, Pages 2816-2820

24. **Suseela R.S.U**, Murthy K.S.N, Valiveti Hima Bindu(july,2019), Performance analysis of cross-layer efficient selfishness prevention routing protocol for the dynamic CR networks , ijtee,2019.

SCOPUS INDEXED CONFERENCES

1. **Jamal, K.**, Mannem, K., Kumar, M. O., & Reddy, B. V. (2020, June). FPGA Implementation of SIC Pair Generator. In *2020 5th International Conference on Communication and Electronics Systems (ICCES)* (pp. 62-67). IEEE.
2. Nandam, K. S., **Jamal, K.**, Budati, A. K., Mannem, K., & Kumar, M. O. (2020, June). Design of Multiplier with Dual Mode Based Approximate Full Adder. In *2020 5th International Conference on Communication and Electronics Systems (ICCES)* (pp. 40-46). IEEE.
3. **Kumari, C. U.**, Ankita, R., Pavani, T., Vignesh, N. A., Varma, N. T., Manzar, M. A., & Reethika, A. (2020, June). Heart Rhythm Abnormality Detection and Classification using Machine Learning Technique. In *2020 4th International Conference on Trends in Electronics and Informatics (ICOEI)(48184)* (pp. 580-584). IEEE.
4. **Pavani, T.**, A. Naga Jyothi, A. Ushasree, Y. Rajasree Rao, and Ch Usha Kumari(JUNE,2020) "Design of Metamaterial Loaded Dipole Antenna for GPR." In *Microelectronics, Electromagnetics and Telecommunications*, pp. 71-77. Springer, Singapore.
5. Kumar, T. B., & **Samson, M.** (19 May, 2020). Efficient SBT Architecture for HEVC. In *ICDSMLA 2019* (pp. 272-281). Springer, Singapore.
6. Nikhitha, N., **Sumalata, G. L.**, & Chowdari, C. P. (May,2020). Performance Evaluation of Stochastic Gammatone Filters. In *ICDSMLA 2019* (pp. 31-41). Springer, Singapore.
7. Anantoju, Laxman, **Padmavathi Kora**, and Mamatha Samson(May,2020). "Design of Delay and Energy Efficient Low Voltage Dual Tail Comparator by Using Sleep Transistor." *ICDSMLA 2019*. Springer, Singapore. 724-733.
8. Mounika Sakhineti, **Sudharsan Jayabalan**(April,a;e2020) , " Design and Fabrication of SHRALA: Socail Humanoid Robot Based on Autonomous Learning Algorithm", *Procedia Computer Science* 171 (2020) 2050–2056.
9. **Vishnubhatla, A.** (March,2020). Unit Testing of ETSI Cellular Text Telephone Modem. In *ICDSMLA 2019* (pp. 593-601). Springer, Singapore
10. Kothapalli, S., **Samson, M.**, Majji, S., Patnala, T. R., Karanam, S. R., & Pasumarthi, C. S. (2020, February). Comparative Experimental Analysis of different Op-amps using 180nm CMOS Technology. In *2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE)* (pp. 1-6). IEEE.
11. **Swamy, T. J.**, Kumar, G. P., & Murthy, T. N. (2020, January). Novel Secure Multipurpose Information Service and Management System with the help of Internet of Things. In *2020 International Conference on Computer Communication and Informatics (ICCCI)* (pp. 1-6). IEEE.

12. **Shilpa, B.**, Joseph, A. B., Vignesh, N. A., & Kumaresham, N. (2020, January). A brief Review on techniques used for Breast cancer detection using antennas. In 2020 International Conference on Computer Communication and Informatics (ICCCI) (pp. 1-3). IEEE.
13. **Vishnubhatla, A.** (2019, December). Requirement Gathering for Multi-tasking Autonomous Bus for Smart City Applications. In *International conference on Computer Networks, Big data and IoT* (pp. 449-456). Springer, Cham.
14. **Vishnubhatla, A.** (2019, December). A Reliable Automation of Motorized Berth Climb. In *International conference on Computer Networks, Big data and IoT* (pp. 440-448). Springer, Cham.
15. **Vishnubhatla, A.** (2019, December). Linux Server Based Automatic Online Ticketing Kiosk. In *International conference on Computer Networks, Big data and IoT* (pp. 428-439). Springer,
16. **Kumari, C. U.**, Panigrahy, A. K., & Vignesh, N. A. (24 September 2019). Sleep Bruxism Disorder Detection and Feature Extraction Using Discrete Wavelet Transform. In Proceedings of ICETIT 2019 (pp. 833-840). Springer, Cham. https://doi.org/10.1007/978-3-030-30577-2_74
17. **Swetha, N.**, Chaitanya, D. L., Valiveti, H., & Kumar, B. A. (2019, August). Malicious User Detection in Cooperative Sensing Environment Using Robust Distance. In International Conference on Inventive Computation Technologies (pp. 104-114). Springer, Cham.
18. Bhavani, G., **Jamal, K.**, & Reddy, B. V. (2019, July). Weighted Pseudorandom Based Deterministic Bist for Fault Testing and Self-Healing. In 2019 International Conference on Communication and Electronics Systems (ICCES) (pp. 192-197). IEEE.
19. Akhil, S. S., **Vignesh, N. A.**, Jayabalan, S., Karthikeyan, E., Pillai, A., Kumari, C. U., & Panigrahy, A. K. (2019, July). A Novel Approach for detection of the symptomatic patterns in the acoustic biological signal using Truncation Multiplier. In 2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT) (Vol. 1, pp. 49-53). IEEE
20. Kanithan, S., **Vignesh, N. A.**, Panigrahy, A. K., Pillai, V. A., Karthikeyan, E., Kumari, C. U., ... & Kumar, T. S. (2019, July). A Survey on Energy Efficient Image Transmission in WSN. In 2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT) (Vol. 1, pp. 41-44). IEEE.
21. Rani, R. U., **Jayanthi, D.**, Vignesh, N. A., & Kavitha, K. (2019, July). Key-Based Functional Obfuscation of Integrated Circuits for a Hardware Security. In *2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT)* (Vol. 1, pp. 733-737). IEEE.
22. Kumar, B. D., & **Jayanthi, D.** (2019, July). Securing Designs of an Area Efficient BIST Technique in UART. In *2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT)* (Vol. 1, pp. 1084-1089). IEEE.