Dr.A.Muthukumar

Associate Professor

Department of Electronics and Communication Engineering

Kalasalingam University

Krishnankovil-626126

Mobile No: 09942490431

Email ID: muthukumar@klu.ac.in

Area of Specialization: Image Processing, Signal Processing

List of Publications

1. Thandapani, P, Arunachalam, M, Sundarraj, D. An energy-efficient clustering and multipath routing for mobile wireless sensor network using game theory. Int J Commun Syst. 2020; 33:e4336. https://doi.org/10.1002/dac.4336

2. Kavipriya, A., & Muthukumar, A. (2020). An Innovative Approach For Multimodal Fusion Recognition Based Feature Extraction Using Blpoc And Dost. IET Image Processing.

3. Narasimhan, Sivasankari, y Muthukumar Arunachalam. 2020. Dual Biometric Encrypted Authentication Using Rasperry Pi Processor. 3C Tecnología. Glosas De Innovación Aplicadas a La Pyme, marzo, 35-49.

4. Preethiya, T., A. Muthukumar, y S. Durairaj. 2020. Secured Transmission in Double Clustered Heterogeneous Mobile Wireless Sensor Network. 3C Tecnología. Glosas De Innovación Aplicadas a La Pyme, marzo, 51-67. http://ojs.3ciencias.com/index.php/3c-tecnologia/article/view/947.

5. Kavipriya, A., y A. Muthukumar. 2020. New Intuition on Ear Authentication With Gabor Filter Using Fuzzy Vault. 3C Tecnología. Glosas De Innovación Aplicadas a La Pyme, marzo, 159-79. http://ojs.3ciencias.com/index.php/3c-tecnologia/article/view/953.

6. Arunachalam, Muthukumar. 2020. The Human Ear Recognition Based On Phase-Based Matching Algorithm. 3C Tecnología. Glosas De Innovación Aplicadas a La Pyme, marzo, 141-57. http://ojs.3ciencias.com/index.php/3c-tecnologia/article/view/952.

7. Preethiya, T., Muthukumar, A. & Durairaj, S. Double Cluster Head Heterogeneous Clustering for Optimization in Hybrid Wireless Sensor Network. Wireless Pers Commun 110, 1751–1768 (2020). https://doi.org/10.1007/s11277-019-06810-3

8. A. Kavipriya and A. Muthukumar, "Human Age Estimation based on Ear Biometrics using KNN," 2019 IEEE International Conference on Clean Energy and Energy Efficient Electronics Circuit for Sustainable Development (INCCES), Krishnankoil, India, 2019, pp. 1-5, doi: 10.1109/INCCES47820.2019.9167706.

9. A. Muthukumar, A. Kavipriya, A biometric system based on Gabor feature extraction with SVM classifier for Finger-Knuckle-Print, Pattern Recognition Letters, Volume 125,2019,Pages 150-156, ISSN 0167-8655, https://doi.org/10.1016/j.patrec.2019.04.007

10. A. M. Kumar, A. Chandralekha, Y. Himaja and S. M. Sai, "Local Binary Pattern based Multimodal Biometric Recognition using Ear and FKP with Feature Level Fusion," 2019 IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS), Tamilnadu, India, 2019, pp. 1-5, doi: 10.1109/INCOS45849.2019.8951348.

11. A. KaviPriya and A. Muthukumar, "Evaluation of Human Age with FKP Using K-NN," 2018 International Conference on Soft-computing and Network Security (ICSNS), Coimbatore, 2018, pp. 1-4, doi: 10.1109/ICSNS.2018.8573612

12. A. Muthukumar and A. Kavipriya, "Fusion of dimensionality reduction techniques for Fkp recognition with Gabor filter," 2017 International Conference on Communication and Signal Processing (ICCSP), Chennai, 2017, pp. 1091-1095, doi: 10.1109/ICCSP.2017.8286544

13. M. Arunachalam and S. B. Alagarsamy, "An efficient ear recognition system using DWT & BLPOC," 2017 International Conference on Inventive Communication and Computational Technologies (ICICCT), Coimbatore, 2017, pp. 16-19, doi: 10.1109/ICICCT.2017.7975188.

14. A. Muthukumar, N. Sivasankari and K. Rampriya, "Anti-aging true random number generator for secured database storage," 2017 4th International Conference on Advanced Computing and Communication Systems (ICACCS), Coimbatore, 2017, pp. 1-7, doi: 10.1109/ICACCS.2017.8014635.

15. P. Steffi Vanthana and A. Muthukumar, "Iris authentication using Gray Level Co-occurrence Matrix and Hausdorff Dimension," 2015 International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, 2015, pp. 1-5, doi: 10.1109/ICCCI.2015.7218133.