

Dr. A. Vijayalakshmi
Associate Professor
Department of ECE
VELS Institute of Science, Technology and Advanced Studies(VISTAS)
Chennai-6000117
Mobile No.9715633304,7550268459
Email: vijayalakshmi.se@velsuniv.ac.in

Publications

Patent filed

1. GPS BASED INTELLIGENT TRAFFIC CONTROL SYSTEM (GIT-CS) DEVELOPMENT FOR AMBULANCE
2. SMART WEARABLE GUIDING ASSISTANT (SWGA) FOR VISUALLY IMPAIRED
3. AN IOT BASED TYRE PRESSURE AND TEMPERATURE MONITORING SYSTEM

List of Publications

International Journals

1. **Vijayalakshmi, A** & Vanaja Ranjan, P 2013, 'Code Strategy Algorithm for Online Power Quality Monitoring of Electrical Equipment using WSN under Tiny-Os Environment', Journal of Theoretical and applied Information Technology, vol. 57, no. 3, pp. 465-473.
2. **Vijayalakshmi, A**, Arthi, K & Vanaja Ranjan, P 2013, 'Network Lifetime Enhancement in Wireless Sensor Networks using Fuzzy logic based Clustering Algorithm', International Journal of Soft Computing, vol. 8, no. 5, pp. 321-326.
3. **Vijayalakshmi, A**, Arthi, K, & Vanaja Ranjan, P 2013, 'Critical Event Based Multichannel Process Control Monitoring using WSN for Industrial Applications', Procedia Engineering, Elsevier Publishers, vol. 64, pp. 142-148.
4. Arthi, K, **Vijayalakshmi, A** & Vanaja Ranjan, P 2013, 'Fuzzy logic based Clustering Algorithm for Network Lifetime Enhancement in Wireless Sensor Networks', International Journal of Soft Computing, vol. 8, no. 6, pp. 386-392.
5. **Vijayalakshmi, A** & Vanaja Ranjan, P, 2015 'Fuzzy Logic based CH Selection for Secured Data Communication with PVR Encryption using VK-Constructs', Asian Journal of Information Technology, 2015, 15 (11), 1746-1757.
6. **Vijayalakshmi, A** & Vanaja Ranjan, P, 2015 'Pattern Viable Restoration Technique with Novel VK Script for Secured Data Transmission in WSN', Australian Journal of Basic and Applied Sciences, vol. 9, no. 35, 291-299.
7. **Vijayalakshmi, A** & Shalini, W, 2016 "Energy Efficient Sink Relocation Scheme (EE-SRS) For Enhanced Network Lifetime in Wireless Sensor Networks" International Journal Of

8. **Vijayalakshmi, A** & Vanaja Ranjan, P, 2019 ‘Multi-Cluster Multi-Channel Monitoring (Triple-M) Algorithm for WSN’, International journal of Computer networks and communication, vol. 11, no. 6, pp. 91-110
9. **Vijayalakshmi, A**, Ebenezer Abishek B, C Arul Stephen, 2019 , “IoT based Sensor Fusion Algorithm for Online Smart Health Monitoring”, International Journal of Recent Technology and Engineering (IJRTE), vol. 8, no. 2, pp. 6040-6046.
10. **Vijayalakshmi, A, Arul Stephen.C** & B. Ebenezer Abishek, 2019 “Development of Safety Zone Detection and Automatic Vehicle Control System using Wireless Communication”, Journal of Applied Science and Computations, vol.5, no.12, pp. 1767-1772 ISSN 1076-5131
11. B. Ebenezer Abishek, Arul Stephen.C & **Vijayalakshmi, A**, 2019 “VLSI implementation of a Reliable Communication Methodology for Vehicular Satellite Communication, JASC, vol.5, no.12, pp. 1773-1778
12. Antony Veera Puthira Raja.J, B. Ebenezer Abishek, Arul Stephen.C & **Vijayalakshmi, A**, 2019 “ GSM baed energy efficient meter reading system with Accounting”, Journal of Applied Science and Computations, vol.5, no.12, pp.1759-1766
13. **A. Vijayalakshmi**, S. Tharun Kumar, M. S. Aswin Balaji , 2020, “Development of Deep learning based Object Recognition (RDL) Algorithm for Visually Impaired”, Journal of Xidian University, vol. 14, no. 4. Pp 1218-1224
14. **A. Vijayalakshmi**, Saran. V, Mohamad Rifakath, 2020, “INTERFERENCE-FREE INTERCOMMUNICATION BETWEEN UAVs”, Journal of Xidian University, vol. 14, no. 7
15. Mohana Priya.G, K.S.Archana, M.Latha, Ebenezer Abishek.B, **A. Vijayalakshmi**, C.Arul Stephen , 2020 , " Strategic Decision and Support System for Educational Universities using Machine Learning" Journal of Computational and Theoretical Nanoscience .

International Conference

1. Vijayalakshmi. A, Mohammed Mubeen, “ IoT Based Cardio vascular Disease Prediction Based on MDCNN Classifier”, 28-30 November 2020, **THE INTERNATIONAL ARAB CONFERENCE ON INFORMATION TECHNOLOGY ACIT'2020**
2. **Vijayalakshmi. A, Nalladi Nageswara Rao**, “Survey of self-organizing network approaches applied to 5G network using classification of novel Deep learning Techniques”, AICTE spproved International conference on Antenna Innovations, 5 G communication and Network Security, ICA5NT 2020, 6th Nov -7th Nov 2020
3. **Vijayalakshmi. A** & Asif Sardar Shaikh, “ Internet of Drone for Advanced Search and Extricate Operation”, Springer international conference on Green Technologies for power Generation, Communication and Instrumentation, April 2019.

4. **Vijayalakshmi, A,** Rubini, S, “Survival of ICU Patient Health Monitoring using IoT”, International Conference on Advanced Functional Materials (ICAFM17), May 2017.
5. **Vijayalakshmi, A,** Arthi, K & Vanaja Ranjan, P, ‘Critical Event Based Multichannel Process Control Monitoring using WSN for Industrial Applications’, International Conference on Design and Manufacturing, IIT D&M, Mar 2013
6. **Vijayalakshmi. A &** Vanaja Ranjan. P, ‘Slot Management based Energy Aware Routing (SMEAR) for Wireless Sensor Networks’, IEEE International Conference on Computing, Communication and Applications (ICCCA), indexed in **IEEE Xplore Digital Library**, Feb 2012.
7. **Vijayalakshmi. A &** Kumaresan. N, ‘Designing and Mapping of a Turbo Decoder for 3G mobile Systems’, 4th National Conference on Signals, Systems and Communication, CEG, Anna University, May 2008.