

Dr. S. Bhavani, Head, Electronics and Communication Engineering, SIET.

Patents Published:

1. The patent titled “INTELLIGENT VEHICLE DOOR MONITORING SYSTEM AND A METHOD TO CONTROL THE SAME” has been published on 2/8/2019
2. The patent titled "ADHESION TESTING MACHINE" has been published on 01.02.2019
3. The patent titled “HELMET SANITIZING MACHINE " has been published on 29/03/2019.

Book Chapter:

1. **Satyawati S Magar, Bhavani Sridharan**, “Comparative Analysis of Biomedical Image Compression Using Oscillation Concept and Existing Methods”, Computational Vision and Bio Inspired Computing, pp 205-214, **(Springer)**

Journal Publications:

Academic Year 2019-20 (May 2019 to August 2020) (Scopus-2, SCI-0)

1. Sreejith Damodaran and Dr.S.Bhavani, “PIR Sensor based Motion detection using fuzzy controller” International Journal of Recent Technology and Engineering Health and Technology, Springer, Vol No 8, Issue 1S5.,pp: 232-235, 2277-3878, June 2019 **(Scopus)**.
2. G.R.Mahendrababu and S.Bhavani, “Primitive cells using Gate diffusion Input technique: A low power approach” International Journal of Recent Technology and Engineering Health and Technology, Springer, Vol No 8, Issue 1S5.,pp: 257-260, 2277-3878, June 2019 **(Scopus)**.

Academic Year 2018-19 (May 2018 to April 2019) (Scopus-11, SCI- 1)

1. Satyawathi Magar and Dr.S.Bhavani,” Hybrid image compression technique using oscillation concept & quasi fractal” Health and Technology, Springer, Vol No 7, Issue 3,pp: 236-238, 2227-524X, 19th April 2019 **(SCI)**.
2. J. Shafiq Mansoor, Dr.S. Bhavani and P. Sasikala, “ On Board Diagnostics (OBD) based AC Monitoring System Using Internet of Thing (IoT)” Jour of Adv Research in Dynamical & Control Systems, Special issue 15, ,pp: 730-734, November 2018.(Scopus)

3. M.Daranikumar,T.S.Aravinth and Dr.S.Bhavani,, “A Scheme for Delay Reduction in Double Tail Comparator for Low Power Applications” Jour of Adv Research in Dynamical & Control Systems, Special issue 15, ,pp: 721-725, November 2018.(Scopus)
4. T.S.Aravinth ,M.Daranikumar, and Dr.S.Bhavani,, “Design of Signal Feed-through Pulse Triggered Dual Dynamic Flip-Flop for Low Power” Jour of Adv Research in Dynamical & Control Systems, Special issue 15, ,pp: 714-720, November 2018.(Scopus)
5. Satyawathi Magar and Dr.S.Bhavani,” Optimization before biomedical image compression using CLAHE and DCS” International journal of Engineering & Technology, Vol No 7, Issue 3,pp: 236-238, 2227-524X, September 2018 (Scopus)
6. Deepaliparag Adhyapak Sridharan Bhavani, “Combination of grid and force based sensor deployment method for wireless sensor network” Sensor Letters, American scientific publishers, Vol 16,Issue 6 pp 472-477,ISSN: 1546-1971, <http://doi.org/10.11591/ijeecs.v10.i3.pp1287-1295.June> 2018(Scopus)
7. Deepaliparag Adhyapak Sridharan Bhavani, “Fuzzy Clustered Ant based Cross Layered Wireless Multimedia Sensor Network for Quality of Service Parameter” Sensor Letters, American scientific publishers, Vol 16,Issue 16 pp 368-373,ISSN: 1546-1971, <http://doi.org/10.11591/ijeecs.v10.i3.pp1287-1295..June> 2018(Scopus)
8. Deepaliparag Adhyapak Sridharan Bhavani, “Ant based cross layered optimization protocol for WMSN with fuzzy clustering” Indonesian journal of electrical Engineering and computer science, Vol 10,Issue 1 pp 295-301,2018(Scopus)
9. Deepaliparag Adhyapak Sridharan Bhavani, “Swarm based cross layer optimization protocol for WMSN” Indonesian journal of electrical Engineering and computer science, Vol 10,Issue 1 pp 302-308,2018 (Scopus)
10. Deepaliparag Adhyapak Sridharan Bhavani, “Grid & Force Based Sensor Deployment Methods in WSN Using PSO” Indonesian journal of electrical Engineering and computer science, Vol 10,Issue 1 pp 271-279, 2018(Scopus)

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Deepaliparag Adhyapak Sridharan Bhavani, “Random, PSO & MDBPSO based sensor deployment in WSN” Indonesian journal of electrical Engineering and computer science, Vol 10,Issue 1 pp 286-294, 2018.(Scopus)

yed jamesha and Dr.S.Bhavani “Improved secured route authentication in MANETs using secure location algorithm” Journal of advanced research in dynamical and control systems, Vol.9 No: 8, pp 2315-2333 , 2018(Scopus)

Academic Year 2017-18 (May 2017 to April 2018) (Scopus-16, Peer reviewed-1, SCI- 1)

1. Dr.S.Bhavani, P.Ligisha,” Pelvic bone fracture detection using BPNN Journal of Advanced Research in Dynamical and Control systems” special issues on recent trends in engineering and managerial excellence 69-74 volume : issue: 03 May 2017(Scopus).
2. Dr.S.Bhavani N.Suresh kumar “Design and development of fuzzy based reliable scheme foe energy efficiency in MANET”, ARPN Journal of Engineering and Applied Sciences Vol12 NO.9 May 2017(Scopus)
3. Dr.S.Bhavani N.Suresh kumar “RERMRS: residual Energy based reliable multipath routing scheme for increasing network life time in MANET” International journal applied engineering research Vol12 NO.9 May 2017(Scopus)
4. Dr.S.Bhavani Mr. Mahesh Navale “Comparative Analysis of Vertical Handover Algorithms,” International journal applied engineering research Vol13 NO.6,pp. 4583-4587, June 2017(Peer reviewed).
5. K. Somu S. Bhavani “A Survey Of Network Partition-Based On QOS Improvement In MANETS” Pak. J. Biotechnol. Vol.14 (Special Issue II) Pp. 173- 177 (2017) Aug 2017(Scopus)
6. Keerthiga Devi Bhavani, S. “Design And Testability Of Z-Ternary Content Addressable Memory Logic” Pak. J. Biotechnol. Vol. 14 (Special Issue II) Pp. 169-173 (2017) Aug 2017(Scopus)
7. K.Somu , Dr.S.Bhavani “Density Based Real Time Partition Avoidance Mechanism For QOS Development In Manet Using Region Proximity Technique” Jour of Adv Research in Dynamical & Control Systems, 14-Special Issue Aug 2017. (Scopus)
8. S.Arunrajan, **Dr.S.Bhavani**, “Optimal and Reliable Routing in Cooperative Communication based Wireless Sensor Network Environment with Collision Avoidance”, Jour Of Adv Research In Dynamical & Control Systems, pp.: 303-313,2017,14-Special Issue, Aug 2017(Scopus).

9. K.Somu, **Dr.S.Bhavani**, “Density based real time partition avoidance mechanism for qos development in manet using region proximity technique”, Jour of Adv Research in Dynamical & Control Systems, pp No: 52-62,Special issue 14, August 2017. (Scopus)
10. K.Somu, **Dr.S.Bhavani**, “Time to Live Based Network Partition Using Adaptive Time Synchronization in Mobile AdHoc Networks”, International Journal of Pure and Applied Mathematics, pp No: 593-603,Vol 116, Issue No:21 -Special Issue, October 2017. (Scopus)
11. Mr.N.A.Natraj, **S.Bhavani**, “A CERTAIN INVESTIGATION ON SECURE LOCALIZATION ROUTING PROTOCOL FOR WSN”, Journal of Theoretical and Applied Information Technology, Vol.No 95 (22), Pp. 6022-6031, November 2017. (Scopus)
12. Ms.SreelajaUniithan, **S.Bhavani**, “Cross layer enhanced mobile routing for Maximizing stability in MANET”, International Journal of Control theory and applications, Vol.No 10 (20), Pp. 153-169, November 2017. (Scopus)
13. Ms.Vijitha,,**S.Bhavani**,“ Connection termination period based secure Warm hole detection scheme in MANET”, International Journal of Control theory and applications, Vol.No 10 (19), Pp. 207-220,November 2017. (Scopus)
14. Ms.SreelajaUniithan, **S.Bhavani**,“ RMCMDCR-Resource managing checkpoint and selfish detection with cluster routing in ADHOC Network”, International Journal of Pure and applied Mathematics, Vol.No 114 (7), Pp. 663-673, September 2017(Scopus)
15. Ms.Vijitha, **S.Bhavani**, “WNTFLEP-Worm Node Detection With Two Fish Algorithm Based Secure Routing And Link Expiry Prediction”, International Journal of Pure and applied Mathematics, Vol.No 114 (7), Pp. 675-685, September 2017..(Scopus)
16. N.A.Natraj and **Dr.S.Bhavani**, “SSMDGS: SCHEDULING BASED STABLE MULTICAST DATA GATHERING SCHEME FOR WSN”, ARPN Journal of Engineering and Applied Sciences,Vol 24, Issue No: 12, Dec 2017.(Scopus)
17. Mahesh Navale and Dr.S.Bhavani, “Simulation of Vertical Handover Algorithm for Seamless Connectivity using Advanced Cuckoo Search Algorithm,”, International Journal of Applied Engineering Research,Vol 12, Issue No: 18,pp 7897-7901 Dec 2017.(Scopus)

18. Syed Jamesha and **Dr.S.Bhavani** A secure and efficient cluster based location aware routing protocol in MANET, Cluster Computing The Journal of Networks, Software Tools and Applications doi.org/10.1007/s10586-018-1703-4 January 2018(**SCI**)

Academic Year 2016-17(May 2016 to April 2017) (Scopus-5, Peer reviewed-2, SCI-1)

1. Dr. S.Bhavani, K.G.Dharani“ Design of Nanoscale memristive arrays for memory applications , Advances in Natural and applied Sciences, vol.no 24(3), pp. 328-331, June 2016.(Scopus)
2. Satyawathi Magar and Dr.S.Bhavani,” Innovative approach to biomedical image compression using oscillation concept,,pp: 124-128, September 2016 (**IEEE Explorer-SCI**).
3. Dr. S.Bhavani, Saniya Ansari “ Devanagari handwritten word recognition using efficient and fast feed Forward neural network classifier International journal of advanced research , vol.no 4(10), pp. 2034-2043, October 2016.(Scopus)
4. Dr. S.Bhavani, Ligisha.P“ A survey on pelvic bone fracture detection, International journal of research in engineering and technology , vol.no 5(22), pp. 19-22, October 2016.(Scopus)
5. Dr. S.Bhavani, Babu.P“ A Novel Control Strategy For Modified SL - QZSI With Three Phase AC Grid Connected System , International journal of Control Theory and Applications , vol.no 9(31), pp. 219-230, October 2016.(Scopus)
6. Dr. S.Bhavani K.R.Joy“ Improving Performance of IQA Algorithm: A Simplified Approach SSIM based on Image Gradients Indian Journal of Science and Technology, Vol 9(46), pp. 1-6, December 2016.(Scopus)
7. Dr. S.Bhavani S.Arunrajan “ Optimized Energy Scheduling Algorithm for Energy Efficient Wireless Sensor Networks , International Journal of Electronic and Communication Engineering Vol:10, No:12,pp no: 1464-1467, December 2016.(Peer reviewed)
8. Satyawathi Magar and Dr.S.Bhavani, “An overview of different methods of digital image compression of medical images", IJIERT - International Journal of Innovations in Engineering Research and Technology, ICITDCEME-15, ISSN : 2394-3696, ,pp: 1-3, 2017 (Peer reviewed).

Academic Year 2015-16(May 2015 to April 2016) (Scopus-4, Peer reviewed-3)

1. K.Vinothkumar and Dr. S.Bhavani, “An Effective Localization based optimized Energy Routing for MANET”, Journal of theoretical and Applied Information Technology, Vol.no 77(2) , pp. 291-299, July 2015.(Scopus)
2. K.Vinothkumar and Dr. S.Bhavani, “Trust Based Multipath Authentication Protocol for Mobile Ad-Hoc Network”, Journal of Computational and Theoretical Nano science, Vol.12 no 12, pp. 5479-5485, December 2015.(Scopus)
3. K.Vinothkumar and Dr. S.Bhavani, “Location based Multipath Routing Protocol for Network Connectivity in MANET”, International Journal of Applied Engineering Research, Vol.no 10(1) , pp. 129-144, 2015.(Peer reviewed)
4. K.Vinothkumar and Dr. S.Bhavani, “Effective Automated Routing scheme for Data integrity in MANET”, International Journal of Soft Computing, Vol.no 10(6), pp. 408-414, December 2015.(Medwell)(Scopus)
5. K.Vinothkumar Dr. S.Bhavani, “An efficient Secured Localization based optimized Energy Routing for MANET”, Indian Journal of Science and Technology, vol.no 8(35), pp. 1-7, December 2015.(Scopus)
6. Dr. S.Bhavani, “An Efficient Secure Intrusion Detection System for Data Integrity in MANET”, International Journal of Applied Engineering Research, vol.no 10(15), pp. 35856-35861, 2015.(Peer reviewed)
7. Dr. S.Bhavani, “Light weight partition avoidance mechanism for QOS Improvement using dynamic random deployment strategy, Middle east Journal of Scientific Research, vol.no 24(3), pp. 534-540, March 2016. (Peer reviewed)

Academic Year 2014-15(May 2014 to April 2015) (Peer reviewed-5)

1. J.Abirami ,Dr.S. Bhavani,” Design Of Monitoring System And Fault Diagnosis In Wind Turbine Based On CAN Bus” ,International Journal of science and Engineering Research, Vol 3 Issue 1, Jan 2015. (Peer reviewed)

2. Dr. S. Bhavani, Vinoth Kumar,” Distributed Denial of Service (DDOS) Attack, Networks, Tools and DEFENSE” International Journal of Applied Engineering Research 10(8):20959-20971, January 2015(Peer reviewed)
3. K.Ananadh Kumar, Dr. S. Bhavani,” Arm Based Intelligent Environment Monitoring And Control System Via Zig bee Network Using GPRS/SMS”, International Journal of science and Engineering Research, Vol 3 Issue 1, ,Jan 2015. (Peer reviewed)
4. Dr.S. Bhavani,Vinothkumar,” An effective localization based optimized energy routing for wireless sensor network”, Middle-east journal of scientific research, Volume 23 Issue 05, April 2015.(Peer reviewed)
5. Dr.S.Bhavani, Mr.Natraj “A Hybrid Power Efficient Localization Scheme For Wireless Sensor Networks”, International Journal of Applied Engineering Research. 2014, 9(23), pp.23219-23233,(ISSN: 0973-4562).(Peer reviewed)