

### **Journal Publications**

1. Nithya S, Seethalakshmi V, Gunanandhini, Saranya G, “Design of high gain microstrip patch antenna for 5g communication using CST” in Journal of Technology, Volume: 35, Issue: 03, pp.158-162, ISSN No: 1012-3407, September, 2020
2. Seethalakshmi V, Nithya S, Sumathi K, Aswatha R , Gunanandhini S, Kayathiridevi K, “Performance Analysis and Simulation of Microstrip patch antenna using CST Studio for Wi-Fi applications” in WAFFEN-UND KOSTUMKUNDE JOURNAL, Volume XI, Issue VIII, August/2020, ISSN NO: 0042-9945,Page No:144 **(Web of Science)**
3. Dr.V.Seethalakshmi, Madhu mitha U, Keerthana Rajeshwari J, Mounika S “Epileptic seizure prediction and Alert system” in International Journal of Psychosocial Rehabilitation, Vol. 24, Issue 08, May 2020 **(Scopus Indexed)**
4. D.Venugopal, K.Kalirajan, V.Seethalakshmi, S.Nithya, R.Aswatha “An Improved Method for Colour Medical Image Compression Using Wrapping Based Hybrid Curvelet Transform” in International Journal of Advanced Science and Technology, Vol. 29, No. 7s, (2020), pp. 2559-2564 **(Scopus Indexed)**
5. R Aswatha, V Seethalakshmi, K Murugan, N Sathishkumar, A Reethika, S Gunanandhini, “Implementation of cooperative spectrum sensing using cognitive radio testbed” in Indian journal of science and technology, 2020;13(13):1355–1366 **(Web of Science)**
6. Kalirajan. K, Venugopal. D, Seethalakshmi. V. Balaji. K. (2020), “Feature Extraction for Face Recognition using Edge Detections and Thresholding,” International Journal of Innovative Technology and Exploring Engineering, vol. 9, no.7. pp.59-63. **(Scopus Indexed)**
7. Dr. V. Seethalakshmi, Sabitha K, Sathyalakshmi S, Varshini S, “Indoor navigation system for visually impaired people using Li-Fi” in International Journal of advanced science and Technology, Vol. 29, No.9s, pp.3796-3804, 2020 **(Scopus Indexed)**
8. V. Seethalakshmi, N. Sowndharya, B. Swatiga, K. Uma, “Development of Amphibious drone for flood and forest rescue” in International Journal of Innovative research in science, Engineering and technology, Vol. 8, Issue 03, March 2019.
9. V. Seethalakshmi, N. Sowndharya, B. Swatiga, K. Uma, “Design and analysis of wideband antenna for 5G wireless communication” in

- International Journal of Innovative research in science, Engineering and technology, Vol. 8, Issue 03, March 2019.
10. Dr. V. Seethalakshmi, R. Ranjitha, M. Selva Priya, M. Suruthi Keerthana, "Gesture Based Message Teller for Disabled Person via Voice and GSM" in IJSRD - International Journal for Scientific Research & Development| Vol. 6, Issue 01, 2018 | ISSN (online): 2321-0613
  11. J.Shouba Tharani, Dr.V.Seethalakshmi, " Increasing randomness using DCM-based tunable True Random Number Generator" in IJARCCCE, Volume 6, Issue 11, November 2017
  12. Ponselvi S, Dr. V. Seethalakshmi, "Secure Communication in Physical Layer through Cooperative Relay Networks" in International Journal for Research in Applied Science & Engineering Technology (IJRASET, Volume 5 Issue V, May 2017/123-129
  13. Sumathi K and Seethalakshmi V 2016, "Analyzing QoS based stable energy aware adhoc routing protocol with different mobility models" in International Journal of Advanced Engineering Technology, Vol. VII/Issue II/April-June, 2016/950-954
  14. Seethalakshmi.V & Mohan Kumar.G 2014, 'Fuzzy analysis and Performance Evaluation of QoS based Routing in MANET', Journal of Electrical Engineering, vol. 14, no.3, Article 14.3.3, pp.1-10, **Annexure I. Impact factor 0.28 (SCIE Indexed)**
  15. V.Seethalakshmi, G.Mohankumar, "Analysis of QoS based Routing Algorithm in MANET Using Fuzzy logic,"in International Journal of Computing and Digital Systems, Scientific Publishing Center, University of Bahrain, Volume 3, No. 2, 111-122(2014) **(Scopus Indexed)**
  16. V.Seethalakshmi, G.Mohankumar, "QOS evaluation of stable energy efficient node disjoint adhoc routing protocol", WSEAS Transactions on Computers 13(5):207-218 · January 2014**(Scopus Indexed)**
  17. V.Seethalakshmi, G.Mohankumar, "QOS Approach for Efficient Routing in Mobile Adhoc Network," in International Journal of Applied Environmental Sciences (IJAES), volume 8 number 21(2013), pp. 2591-2609, Print ISSN 0973-6077,Online ISSN 0974-0260 Annexure II **(Scopus Indexed)**
  18. V.Seethalakshmi, G.Mohankumar, "Performance Evaluation of Stable Energy Efficient Node Disjoint Adhoc Routing protocol" in Journal of Applied Sciences Research, 9(8): 4535-4547, August 2013 ISSN 1819-544X pp. 4535-4547,Annexure II, SJR\*= 0.148 **(Scopus Indexed)**

19. V.Seethalakshmi, G.Mohankumar, "A Survey of Energy Aware Ad Hoc Routing Protocols" in International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS) , ISSN (Online): 2279-0055, Issue 5 Volume 2, June-August, 2013, pp. 198-203 Impact factor 1.237.
20. V.Seethalakshmi, G.Mohankumar, "A Survey of Routing Protocols in Mobile Ad Hoc Network" in International Journal of Advanced Research in Computer Science and Software Engineering, Volume 3, Issue 8, August 2013 ISSN: 2277 128X, pp. 1340-1346 Impact factor 2.080.
21. P.Sathya Priya, V.Seethalakshmi, G.Mohankumar, "Efficiency enhancement of Energy aware Adhoc routing protocols" in International journal of computer networking, wireless and Mobile Communications Impact factor 5.2749.
22. V.Gowri, V.Seethalakshmi, G.Mohankumar, "Performance Comparison and Implementation of distance based routing protocol in Manet using NS-2" in International Journal of Emerging Technology and advanced Engineering, ISSN 2250-2459, Volume 2, Issue 12, December 2012, Impact factor 1.932.
23. K.P,Shanmugapriya V.Seethalakshmi, G.Mohankumar, "Replica Allocation In Mobile Adhoc Network For Improving Data Accessibility Using SCF-Tree" in International Journal of Modern Engineering Research (IJMER), Vol.3, Issue.2, March-April. 2013 pp-915-919 ISSN: 2249-6645, Impact factor 1.132.
24. Jaya Jacob, V.Seethalakshmi "Performance Evaluation of various routing protocols in MANETs" on Research Cell: An International Journal of Engineering Sciences (IJOES), Vol 5, Issue Dec 2011.ISSN: 2229-6913, Journal Anu books, Meerut.
25. Jaya Jacob and V.Seethalakshmi "Performance Analysis and Enhancement of Routing Protocol in Manet" in International Journal of Modern Engineering Research, March-April 2012, Vol. 2, Issue 2, pp. 395-404.
26. Deepika Srikumar and V.Seethalakshmi "Secured energy efficient hybrid routing in Wireless sensor networks" in International Journal of Advances in Engineering & Technology, March 2012, ©IAET ISSN: 2231-1963, Vol. 3, Issue 1, pp. 395-404.
27. S. Dhanalakshmi and V.Seethalakshmi "Performance comparison of dynamic source routing with weight based reliable routing

- method” in International Journal of Modern Engineering Research, March-April 2012, Vol. 2, Issue 2, pp. 395-404.
28. D.Vedha vinodha and V.Seethalakshmi “Analysis of safety measures and Quality Routing in Vanets” in International Journal of Modern Engineering Research, March-April 2012, Vol. 2, Issue 2, pp. 395-404.
  29. Jaya Jacob, V.Seethalakshmi “Efficiency Enhancement Of Routing Protocol in Manet” in International Journal of Advances in Engineering and Technologies (IJAET), Vol 3, Issue 2, pp 314-323, May 2012,ISSN: 2231-1963.
  30. R. Gowri, K. Tharageswari, V. Seetha Lakshmi and K. Krishna Lekha “An Efficient Selective Trigger Scan Architecture for VLSI Testing” at CiiT International journal of Programmable Device and Systems, Volume 3, No 1, January 2011, Page 41 ISSN 0974-973X/iCIRET-0064/07/\$20/\$100.
  31. V.Seethalakshmi, Rajaram, Farithkhan, Gowri, Dr. G.Mohankumar, “Emergent operations of Flooding attacks in Mobile ad hoc Networks” on JCTA FUTURE PROCEEDINGS NOV-DEC 2011 David publishing Company USA, ISSN 1934-7332.
  32. V.Seethalakshmi, Er.Gurpadam singh “Lossless Watermarking for Image Authentication” at Engineering Today, National monthly journal, Volume XI, Issue 08, August 2009, ISSN 0974-8377, Chennai.
  33. V.Seethalakshmi, Er.Gurpadam singh “Lossless Watermarking for Image Authentication” at CiiT International journal of Digital Image Processing, Volume I, No 5 August 2009, Page 188 ISSN 0974-9691/CIIT-IJ-0307/07/\$20/\$100.

### **International conference**

1. K.Sumathi, V.Seethalakshmi, S.Nithya, R.Aswatha, “Hexagonally shaped fractal MIMO monopole antenna for GSM/PCS applications” in International conference of Science, Technology, Engineering and management (ICSTEM’20) at KIT- Kalaigarkarunanidhi Institute of Technology, March 13 & 14, 2020.
2. P.Sathya Priya, V.Seethalakshmi, G.Mohankumar, “Performance Comparison of Energy Aware Ad Hoc Routing Protocols and its Enhancement” in Second International conference on Advances In Communication And Computing, January 9-10, 2013, Organized by Tejaa Shakthi Institute of Technology for Women & Asian Institute of Technology, Bangkok, Thailand.

3. P.Sathya Priya, V.Seethalakshmi, G.Mohankumar, "Performance Evaluation of Stable Energy Efficient Ad Hoc Routing Protocol" in 2nd International Conference on Innovative Research in Engineering and Technology (iCIRET2013), January 3-5, 2013.
4. P.Sathya Priya, V.Seethalakshmi, G.Mohankumar, "QOS based stable energy Aware ad hoc routing protocols" in International conference on Innovations in intelligent instrumentation, optimization and signal processing at Karunya university on 1<sup>st</sup> & 2<sup>nd</sup> March 2013.
5. V.Gowri, V.Seethalakshmi, G.Mohankumar, "Distance based route discovery mechanism for mobile adhoc network" in 2<sup>nd</sup> International Conference on Innovative Research in Engineering and Technology (iCIRET2013), January 3-5, 2013.
6. V.Gowri, V.Seethalakshmi, G.Mohankumar, "Route discovery Mechanism for Mobile adhoc network in Second International conference on Advances In Communication And Computing, January 9-10, 2013 Organized by Tejaa Shakthi Institute of Technology for Women & Asian Institute of Technology, Bangkok, Thailand.
7. K.P,Shanmugapriya V.Seethalakshmi, G.Mohankumar, "Detecting and eliminating selfish nodes in Replica Allocation using SCF tree for Mobile Adhoc Network" in 2<sup>nd</sup> International Conference on Innovative Research in Engineering and Technology (iCIRET2013), January 3-5, 2013.
8. Jaya Jacob, V.Seethalakshmi "A comparative study of Various Routing Protocols in Manets" at Karpagam University, Coimbatore on 19<sup>th</sup> and 20<sup>th</sup> Dec 2011.
9. D.Vedha vinodha, V.Seethalakshmi "Quality Analysis and Security Routing in Vanets" at Karpagam College of Engineering, Coimbatore on 6<sup>th</sup> and 7<sup>th</sup> Jan 2012.
10. D.Vedha vinodha, V.Seethalakshmi "Analysis of security and QOS based Routing in Vanets" Teja Shakthi Institute of Technology for women, Coimbatore on 9<sup>th</sup> and 10<sup>th</sup> Jan 2012.
11. S.Dhanalakshmi, V.Seethalakshmi "Secured Weight based Reliable routing method" at Teja Shakthi Institute of Technology for women, Coimbatore on 9<sup>th</sup> and 10<sup>th</sup> Jan 2012.
12. S.K.Deepika, V.Seethalakshmi "Cognitive based energy efficient hybrid routing in wireless sensor networks" at PSG college of Technology, Coimbatore on 5, 6 & 7<sup>th</sup> Jan 2012.

13. S.K.Deepika, V.Seethalakshmi "Lifetime Extension in wireless sensor nodes based on energy Efficient hybrid routing" at Vellore Institute of Technology, on 19, 20 & 21<sup>st</sup> Jan 2012.
14. Jaya Jacob, V.Seethalakshmi "Performance Evaluation of various routing protocols in MANETs" at Teja Shakthi Institute of Technology for women, Coimbatore on 9<sup>th</sup> and 10<sup>th</sup> Jan 2012.
15. Paper titled "An Adaptive Approach for Defending against DDoS Attacks" at Sri Shakthi Institute of Engineering & Technology, Coimbatore on 11/01/2011 to 12/01/2011.
16. Paper titled "Experimental Evaluation of Flooding Attacks in Mobile Ad hoc Networks" at PSG College of Technology, Coimbatore on 06/08/2010 & 07/08/2010.
17. Paper titled "Network Defense against DoS/DDoS Flooding Attacks in the future Internet" at CIT, Coimbatore, on 14/07/2010 & 15/07/2010.
18. Paper titled "Controller Area Network Application in Security System" at Coimbatore Institute of Technology, Coimbatore, on 14/07/2010 & 15/07/2010.
19. Paper titled "Enhanced Ant- Colony Algorithm for Routing in Mobile Ad Hoc Network" at Park College of Engineering & Technology, Coimbatore on 12/08/2010 to 14/08/2010.
20. Paper titled "Embedded Monitors for Network Intrusion Detection & Prevention" at Park College Of Engineering & Technology, Coimbatore on 12/08/2010 to 14/08/2010.
21. Paper titled "An Efficient Selective Trigger Scan Architecture for VLSI Testing" at Park College Of Engineering & Technology, Coimbatore on 12/08/2010 to 14/08/2010.
22. Paper titled "Cognitive Mobile ADHOC Networks Implementation with an Embedded VX Works" at Park College Of Engineering & Technology, Coimbatore on 12/08/2010 to 14/08/2010.
23. Paper titled "Location Based Routing for Mobile Ad-Hoc Networks (MANET) Implementation through Embedded Systems" at Computation World 2009/ Athens-Greece, November 15-20 2009.
24. Paper titled "OFDM - Multicarrier modulation scheme for wireless networks" at KC College of Engineering and IT, Nawanshahr, Punjab on 15-16th Dec 2006.

25. Paper titled “Technologies beyond 3G- Changing face of cellular” at KC College of Engineering and IT, Nawanshahr, Punjab on 15-16th Dec 2006.

### **Patents**

S. No.	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency /Country	Status
1.	Electric Stone Based Hand Grinder	Mr.M.Manikandan Dr.V.Seethalakshmi	201741047 178 A	05/01 /2018	India	Published
2.	Leg-Navigated vehicle for physically challenged person	Mr.M.Manikandan Dr.V.Seethalakshmi	201941038 835	18/10 /2019	India	Published
3.	Embedded Vision Based Smart Stair Climbing Wheel Chair For Elderly and Differently Abled Persons	Dr. K. Kalirajan Dr.V.Seethalakshmi Dr.D.Venugopal	0204101161 4	15/05/ 2020	India	Published

### **Annexure I of Anna University**

#### **Journal-**

Sensor Review (Emerald group publishing limited)- Annexure I

**Topic:** High-precision Positioning and Deformation Monitoring Analysis of BD/GPS Based on Improved Kalman Filter Fusion

**Journal-** International Journal of Computing and Digital Systems

#### **Topic:**

1. Gain and Bandwidth Enhancement in CMOS Low-Voltage Low-Power Operational Amplifiers
2. A Study of the CPS Evaluation Platform in Medical Domain