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Publications (Last 5 years only):

1. S. Sophia, Nandalal,V. and, Akhaliya (2015), “Performance analysis of microstrip antennas for on-body application”, International Journal of Applied Engineering research ”, Volume 10, No.6 pp.12541-12547 (ISSN: 0973-4562) (Annexure II). (Scopus H Index: 05)
2. S. Sophia and S.R.Boselin Prabhu, (2015),“Distributed Clustering using Enhanced Hierarchical Methodology for dense WSN field”, International Journal of Applied Engineering research ”, Volume 10, No.6 pp.15581-15590 (ISSN 0973-4562) (Annexure II). (Scopus H Index: 05)
3. Boselin Prabhu, SR & Sophia S, (2015), ‘Issues in environmental pollution monitoring using distributed wireless sensor network’, Pollution Research, vol. 34, no. 1, pp. 39-45, ISSN : 0257–8050 (Annexure II). (Scopus H Index: 19)
4. Boselin Prabhu, SR & Sophia S, (2015), ‘Evaluation of clustering parameters in WSN fields using distributed zone-based approach’, ASTM Journal of Testing and Evaluation, vol. 43, no. 06, pp. 01-13, ISSN : 0090-3973 (Annexure I). (Scopus Indexed) DOI:10.15.20/JTE 2014 0523
5. S. Sophia , P.D Rathika and P.Arun prasath , (2015) ,“Spectrum Sensing and noise classification in cognitive radio network using FLOS”, International Journal of Applied Engineering research ”, Volume 10, No.70 pp.355-362 (ISSN 0973-4562) (Annexure II). (Scopus H Index: 05)
6. S. Sophia , P.D Rathika and V.P.Ajay , (2015) ,“ Cooperative Spectrum Sensing for cognitive radio network –A Study ”, International Journal of Applied Engineering research ”, Volume 10, No.67 pp.72-77 (ISSN : 0973-4562) (Annexure II). (Scopus H Index: 05)
7. S. Sophia , V.Saveetha and Pratul P Nambiar, (2015F), “ A Parallel Sentinel k-means Clustering on GPU ”, International Journal of Applied Engineering research, Volume 10, No.7 pp.16553-16562 (ISSN :0973-4562) (Annexure II).(Scopus H Index: 05)
8. Inigo Mathew, Rajkumar, Boselin Prabhu S R , Rajkumar and S.Sophia (2015), “Proposed Method to Save the Soldiers inside the Main Battle Tank via High

Bandwidth Links-Remote Controlled Tank”, American Journal of Computer Science and Engineering Survey, Volume 3, No.6 pp. 158-178 (ISSN 2349 – 7238)

9. Rajkumar R, Boselin Prabhu SR, S. Sophia(December 2015), “Traffic Decongestion in Toll Plaza using Electronic Toll Collection ”, Australian Journal of Basic and Applied Sciences, Volume 9, No. 36, pp. 171-176 (ISSN 1991-8178)
10. Kalaivani P, Sathya G, Nikitha S Paulin, Boselin Prabhu SR, S. Sophia (December 2015), “Performance Improvement of Distributed Island Multicasting with Overlay Data Distribution ”, Australian Journal of Basic and Applied Sciences, Volume 9, No. 36, pp. 221-228 (ISSN 1991-8178)
11. Boselin Prabhu S.R. and S.Sophia, (May 2015),“Cluster integrated self forming wireless sensor based system for intrusion detection and perimeter defence applications”, International Journal of Computer Science and Business Informatics, Vol.15, No.3, pp.70-83 (ISSN: 1694 – 2108)
12. Dhakshina Moorthi P , Boselin Prabhu S R, Rajkumar R , S. Sophia (January 2016), “Nodes Routing Mechanism For Manet In Adversarial Environment” International Journal of Emerging Technology and Innovative Engineering , Volume 2, Issue 1, pp. 12-17 (ISSN: 2394 – 6598)
13. Boselin Prabhu S.R. and S.Sophia , (January 2016), “The Impact of Clustering Mechanism in Dense Wireless Sensor Network”, Scholars Journal of Engineering and Technology, Volume 4, No. 1, pp 58-62 -(ISSN: 2347 – 9523) (Index Copernicus IC Value 4.21)
14. Boselin Prabhu S.R. and S.Sophia (January 2016), “A methodology for reducing energy utilization in dense wireless sensor networks”, International Journal of Research –Granthaalayah, Volume 4, No. 1, pp.125-130 (ISSN:2350-0530) (JCR Impact Factor : 2.035)
15. Boselin Prabhu S.R. and S.Sophia (January 2016), “Literature and comparative survey of future wireless communication”, Galaxy: International Multidisciplinary Research Journal, Volume 4, No. 6, pp. 421-428 (Impact Factor: Nil)
16. Boselin Prabhu S.R. and Sophia.S(March 2016) ,“Effective clustering mechanism when both the sensor nodes and base station are mobile”, ARPJ Journal of Engineering and Applied Sciences, Volume 11, No. 5, pp. 3095-3101 (ISSN :1819-6608) (Scopus Indexed)
17. Sasikumar.J.T , Rathika.P.D , Sophia.S,(March 2016) ,“ Efficient Method of Secondary Users Selection Using Dynamic Priority Scheduling” International Journal of Advanced Research in Biology Engineering Science and Technology, Vol. 2, Special Issue 10, pp. 421-428 (ISSN: 2395-695X)

18. Jason K, Rajiv Suresh Kumar G, Boselin Prabhu S R, Sophia S(May-June 2016), "Cluster Initialization in Dense Distributed Wireless Sensor Networks using Jumping Ants ",The Research Journal ,Vol. 2, Issue 3,pp.5-10 (ISSN: 2454-7301)
19. Jason K, Manikandan K, Boselin Prabhu S R, S. Sophia,(May-June 2016), " The Study Of Low Energy Adaptive Clustering Hierarchy And Further Developments", The Research Journal , Vol. 2 Issue 3 Pp. 1-4 (ISSN: 2454-7301)
20. Dr. Boselin Prabhu S. R., Balakumar N. & Dr. Sophia S (July 2016), "Biologically Inspired Clustering Mechanism in Dense Distributed Wireless Sensor Networks" , International Journal of Engineering Studies and Technical Approach, vol. 2, Issue 7, pp.1-11 (ISSN: 2395-0900)
21. Dr. Boselin Prabhu S. R., Balakumar N. & Dr. Sophia S. (July 2016), "Bio-Medical Application of Wireless Power Transmission System", International Journal of Research and Engineering vol. 3, Issue 7, pp.51-53 (ISSN:2348-7852)
22. K. Abinaya, R. S. Beril Binny, V. Gayathri, S. R. Boselin Prabhu & Dr. S. Sophia(2016), "Performance Assessment Of Various Generations In Wireless Narrowband Networking", International Journal of Multidisciplinary Research and Modern Education, Vol 2, Issue I, pp.540-552, (ISSN : 2454 – 6119)
23. Senthil Kumar T, Boselin Prabhu S R, Sophia S, (2016), " The Impact Of Clustering Mechanism In Dense Wireless Sensor Network", Scholars Journal Of Engineering And Technology, Vol. 4 Issue 1, pp. 58-62 (ISSN 2347-9523)
24. V.Saveetha , Dr. S.Sophia, Dr. Vijayakumar. P.D.R (OCT 2016) ,"GPU Accelerated K – Means Clustering Refined using ANT Colony Optimization", Asian Journal of Research in Social Sciences and Humanities ,Vol 6,Issue 10 , pp.1736-1747, (ISSN: 2249-7315), DOI NO:10.5958/2249-7315.2016.01126.6
25. V.Saveetha , Dr. S.Sophia (2016), "Optimization of K-Means Clustering on Graphics Processing Unit using Compute Unified Device Architecture", Journal of Computational and Theoretical Nanoscience , (ISSN: 1546-1955) (Annexure-I)
26. R.Jennie Bharathi, Dr.S.Sophia, (Dec2016), "Enhancing Anonymity in MIPv6 Networks based on Bilinear Pairings", International Journal of Printing, Packaging and Allied Sciences, vol-4,No-4,pp.2819-2825 (ISSN:2320 4387) (Annexure-I)
27. Saveetha.V, Sophia.S, Vijayakumar. P.D.R, (2017), "Increasing the efficiency of K – Means Clustering Refined using Careful Seeding on Hadoop Environment", SSRG International Journal of Computer Science and Engineering- (ICET'17), ISSN: 2348-8387, pp: 68 - 71.
28. Mishmala Sushith, Dr. S. Sophia, (2017), " Improved Multistage Road Detection Algorithm with Robust Ground Point and Building Point Extraction", Journal of Computational and Theoretical Nanoscience, vol-14,No-11, pp.5469-5477

(Annexure I) (Scopus Indexed)

29. Saveetha, V., Sophia, S. (2017) "Optimization of K-means clustering on graphics processing unit using compute unified device architecture ", Journal of Computational and Theoretical Nanoscience (Scopus Indexed)
30. Nagarajan, K Vinod Kumar V, Sophia S, 2017 "Analysis of OFDM systems for high bandwidth" International Conference On Nextgen Electronic Technologies: Silicon to Software, ICNETS2 2017 (Scopus Indexed)
31. PD Rathika, S Sophia, 2017 "A distributed scheduling approach for QoS improvement in cognitive radio networks", Computers & Electrical Engineering, Vol:57, pp:186-198, ISSN:0045-7906
32. KS Bhuvaneshwari, D Bhanu, S Sophia, 2017 , " Dynamic Two-Stage Rough Set Synthetic Evaluation Mechanism for Elucidating Effective Learning Styles in E-Learning Environments", Asian Journal of Research in Social Sciences and Humanities, 7 (1), 324-345
33. PD Rathika, S Sophia , 2017 , Efficient Scheduling and Collision Reduction in Hybrid Cognitive Radio Network using SBP" J o u r n a l o f A d v a n c e s i n c h e m i s t r y Vol: 13, ,No-4, pp. 6101-6107 (ISSN: 2321-807X)
34. Saveetha V, Sophia.S, 2018 "Optimal Tabu K-Means Clustering Using Massively Parallel Architecture" Journal of Circuits, Systems and Computers, vol-27,No-13, pp.1850199 (13pages) (Scopus Indexed)
35. Saveetha V., Sophia, S., Vijayakumar, P.D.R. (2018) "Appliance of effective clustering technique for gene expression datasets using GPU", Cluster Computing (Scopus Indexed)
36. Siddharthraju, K., Dhivya Devi, R., Shanmugaraja, T., Mithunraj, S., Sophia, S. , 2018, "Smart infotainment system for vehicular network ", International Journal of Engineering and Technology(UAE), (Scopus Indexed)
37. Bhuvaneshwari, K.S., Bhanu, D., Sophia, S., Kannimuthu, S. 2019 "Probabilistic variable precision fuzzy rough set technique for discovering optimal learning patterns in e-learning ", International Journal of Business Intelligence and Data Mining, Volume 14, Issue 1-2, Pages 121-137. (Scopus Indexed)
38. Sushith, M., Sophia, S. 2019, "Extraction of Road using Soft Computing Techniques" Soft Computing Volume 23, Issue 18, pp 8487–8494 (Scopus Indexed)
39. U. K. Sridevi, S. Sophia, P. Shanthi, "Deep Learning Model to Predict the Behavior of an Elder in a Smart Home" *Indian Journal of Science and Technology* , Volume 12, Issue 12, March 2019
40. V. V. Vineeth, S. Sophia, S. Jayanthi, "Survey on Security Aspects in Smart Grid: Performance and Parametric Analysis" in Innovations in Electrical and Electronics Engineering , Lecture Notes in Electrical Engineering book series, volume 626, pp

609-616, 2020 (Scopus Indexed)

41. M.Navin Kumar, Dr.S.Sophia, Dr.S.Karthikeyan, (January -February 2020) “Design and Analysis of BIST Approach for 3D-Mesh NOCs Router Testing”, TEST Engineering and Management, Vol 82, pp: 7807-7812 (Scopus Indexed)
42. Suriya, K., Sophia, S 2020 “ A compact hexa-linear polarization reconfigurable patch antenna” TEST Engineering and Management, Vol, pp: (Scopus Indexed)
43. Suriya, K., Sophia A New Diminutive Octa Polarization Reconfigurable Circular Patch Antenna International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-6, April 2020
44. S. Sophia, K.Sowmiya, P. Vinesha, S. Rajarajeshwari, A. Athithya Janani, April 2020,” Gait Abnormality Classification in Clinical Field”, International Journal of Engineering and Advanced Technology, Volume-9Issue-4, 128. ISSN: 2249 –8958
45. Mr.K.Siddharthraju, Dr.S.Sophia , Dr.B.Jaishankar, Dr.K.Murugan, Ms.M.Supriya, Mr.T.Venkatesh, June 2020,” An Improved load-balancing task allocation scheme for MCS systems”, WAFFEN-UND KOSTUMKUNDE JOURNAL, Volume XI, Issue VI, ISSN NO: 0042-9945Page No: 252, ISSN NO: 0042-9945 (Web of Science)