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## List of Publications (Last 5 years)

- 1. S. Punitha, **A. Amuthan**, K. Suresh Joseph, "An Intelligent Artificial Bee Colony and Adaptive Bacterial Foraging Optimization Scheme for reliable breast cancer diagnosis," *Recent patents on computer science, Bentham Science, ISSN 2666-2558, Volume 13, 6 Issues, 2020, DOI: 10.2174/266625581399920061814370, June 2020. (Scopus)*
- 2. C. Kalaiarasy, N.Sreenath, **A.Amuthan**, "An Effective Variant Ring Signature-based Pseudonym Changing Mechanism for privacy preservation in Mixed Zones of Vehicular Networks", *Journal of Ambient Intelligence and Humanized Computing*, vol. 11, no.4, pp. 1669-1681, ISSN: 1868-5145, April 2020. (**SCI**)
- 3. **A. Amuthan**, R. Sendhil, "Hybrid GSW and DM based fully homomorphic encryption scheme for handling false data injection attacks under privacy preserving data aggregation in fog computing", *Journal of Ambient Intelligence and Humanized Computing*, ISSN 1868-5137, DOI 10.1007/s12652-020-01849-8, 2020.(**SCI**)
- 4. **A.Arulmurugan**, A.Amuthan, "Analytical Network Process-based Adaptive Cluster Head Selection Framework in WSN", *International Journal of Computer Science and Engineering*, Vol.7, Issue.12, ISSN: 2347-2693, December, 2019. (Scopus)
- 5. **A.Amuthan**, R.Kaviarasan, "Rank Criteria Improved Confidence-based Centroid Scheme for Non Line of Sight Node localizations in Vehicular Networks", *Journal of King Saud University Computer and Information Sciences, Elsevier*, Vol.31, Issue.4, pp.415-560, ISSN: 1319-1578, October 2019. Indexed by (**ESCI**), **Cite Score:** 3.12. 6. Pillutla Harikrishna, **A. Amuthan**, "Adaptive Self Organizing Maps Inspired SDNBased DDoS (ASOM-SDN-DDoS) Mitigation Framework," International Journal of Scientific & Technology Research, Vol. 8, Issue 10, pp. 2257-2265, ISSN 2277-8616, Oct. 2019. (**Scopus**)
- 7. N. Arunachalam, **A. Amuthan**, "Adaptive and Optimized Meta-Heuristic Framework for Establishing QoS and Transaction Properties-based Dynamic Web Service Composition", *International Journal of Recent Technology and Engineering (IJRTE)*, Vol.8, Issue.3, pp. 7640 7644, ISSN:2277-3878, September 2019. (**Scopus**) 8. N. Arunachalam, **A. Amuthan**, "Integrated probability multi-search and solution acceptance rule-based artificial bee colony optimization scheme for web service composition", *Natural Computing*, DoI: doi.org/10.1007/s11047-019-09753-7, ISSN: 1572-9796, July 2019. (**SCIE**)
- 9. **A. Amuthan**, R. Kaviarasan, "Hybrid Multi-perspective NLOS Localization Framework (HM-NLOS-LF) for effective node localization in VANETs", *International Journal of Computer Sciences and Engineering*, Vol.7, Issue.6, pp.686-695, ISSN: 2347-2693, June 2019. (**UGC**)
- 10. N. Arunachalam, A. Amuthan, "A Survey on QoS aware Web Service Selection for

- Reactive Service Composition", International Journal of Computer Sciences and Engineering (IJCSE), Vol.7, Issue 4, pp .581-587, ISSN: 2347-2693, Apr-2019, (UGC)
- 11. S.Udhaya Shree, **A.Amuthan**, K.Suresh Joseph, "Integrated Ant Colony and Artificial Bee Colony Optimization Meta Heuristic Mechanism for QoS-based Web Service Composition," *Journal of Computational and Theoretical Nano science*, Vol. 16, Issue. 4, pp. 1444-1453(10), ISSN: 1546-1955, April 2019. Indexed by (E**SCI**) 12. Harikrishna Pillutla, **Amuthan Arjunan**, "Fuzzy Self Organizing Maps-based DDoS mitigation mechanism for Software Defined Networking in Cloud Computing," *Journal of Ambient Intelligence and Humanized Computing*, https://doi.org/10.1007/s12652-018-0754-y, Vol.10, Issue:4, pp: 1547–1559, ISSN: 1868-5137, April 2019. (**SCI**)
- 13. N. Arunachalam, **A. Amuthan**, "A Survey on Meta-Heuristics Techniques for Web Service Composition", *International Journal for Research in Engineering Application & Management (IJREAM)*, Vol.4, Issue.12, pp. 823 831, ISSN: 2454-9150, Mar 2019 **(UGC)**
- 14. N. Arunachalam, **A. Amuthan**, "A Survey on Degree of Exploration and Exploitation for Effective Web Service Composition", *International Journal of Research in Electronics and Computer Engineering (IJRECE)*, Vol. 7, Issue. 1, pp. 2503 2510, ISSN: 2348-2281, 1 Jan March 2019. (UGC)
- 15. A. Arulmurugan, A. Amuthan, "An Availability Predictive Trust Factor -based Semi-Markov Mechanism for effective Cluster Head Selection in Wireless Sensor Networks", International Journal of Communication Systems, Wiley, DOI: 10.1002/dac.4298, ISSN: 2347-2693, 2019. (SCIE)
- 16. S. Punitha, **A. Amuthan**, K. Suresh Joseph, "Enhanced Monarchy Butterfly Optimization Technique for effective breast cancer diagnosis," *Journal of Medical Systems*, vol. 43, Issue. 7, pp. 1–14, ISSN: 1573-689X, 2019. Impact Factor: 2.415 (**Scopus**).
- 17. S. Udhaya Shree, **A. Amuthan**, K. Suresh Joseph, "Grenade-Cauchy Operator Integrated Artificial Bee Colony Optimization for Reliable QoS based Web Service Composition", *International Journal of Computational Systems Engineering*, Vol. 5, No. 3, pp.161 168, ISSN: 2046-3405, 2019. (E**SCIE**)
- 18. **A.Amuthan**, R.Kaviarasan, "Weighted Inertia-based Dynamic Virtual Bat Algorithm to detect NLOS nodes for reliable data dissemination in VANETs", *Journal of Ambient Intelligence and Humanized Computing Springer*, Vol. 10, Issue.11, pp.4603-4613, ISSN: 1868-5145, 29 Nov 2018. Indexed by (**SCIE**). **Impact factor**:1.91
- 19. N. Arunachalam, **A. Amuthan,** "Improved cosine similarity based Artificial Bee Colony scheme for reactive and dynamic service composition", *Journal of king Saud University Computer and Information Sciences*, Vol.30, Issue.4, pp.431-560, ISSN: 1319-1578, Oct. 2018. **(ESIC), Cite Score:** 3.12
- 20. S. Punitha, **A. Amuthan**, K. Suresh Joseph, "Benign and malignant breast cancer segmentation using optimized region growing technique," *Future Computing and Informatics Journal*, vol. 3, no. 2, pp. 348–358, ISSN: 2314-7288, Oct 2018. (**SCIE**)

- 21. A. Arulmurugan, **A. Amuthan**, "Semi-Markov inspired hybrid trust prediction scheme for prolonging lifetime through reliable cluster head selection in WSNs", *Journal of King Saud University Computer and Information Sciences, Elsevier*, doi.org/10.1016/j.jksuci.2018.07.006, ISSN: 1319-1578, 17th July 2018. (**ESCI**), **Cite Score:** 3.12
- 22. K. Deepa Thilak, **A. Amuthan**, 'Cellular Automata-based improved Ant Colonybased Optimization algorithm for mitigating DDoS attacks in Vehicular Ad-hoc Networks,' *Future Generation Computer Systems*, vol. 82, pp.304-314, ISSN: 0167-739X, May 2018. **Impact Factor**: 5.768, (**SCIE**).
- 23. **Arjunan Amuthan**, Pillutla Harikrishna, "Mean Availability Parameter-based DDoS Detection Mechanism for Cloud Computing Environments," *In: Zungeru A., Subashini S., Vetrivelan P. (eds) Wireless Communication Networks and Internet of Things. Lecture Notes in Electrical Engineering*, vol 493, pp. 115-122, ISSN: 1876-1100, May 2018. (**Scopus**)
- 24. **A.Amuthan,** R.Kaviarasan, "Weighted Distance Hyperbolic Prediction-Based Detection Scheme for Non Line Of Sight nodes in VANETs," *Journal of King Saud University Computer and Information Sciences, Elsevier*, Vol.30, Issue.12, pp.141-290 ISSN: 1319-1578, 3rd April 2018. Indexed by (**ESCI**), **Cite Score:** 3.12
- 25. **A.Amuthan**, K Deepa Thilak, "Improved Tabu Search based Cellular Automaton Inspired Algorithm for DDoS attacks in VANETs," *International Journal of Modern Electronics and Communication Engineering*, vol.5, no. 5, pp 25-34, ISSN: 2321-2152, October, 2017. (**UGC**)
- 26. **A.Amuthan,** K Deepa Thilak, "An Improved Stochastic Optimization Algorithm based on Cellular Automata for mitigating DDoS attacks in VANETs," *Journal of Advanced Research in Dynamical and Control Systems*, vol. 9, Issue. 14 Special issue, pp. 155-177, ISSN: 1943-023X, October, 2017. (**Scopus**)
- 27. **A.Amuthan**, N.Sreenath, P.Boobalan, K.Muthuraj, "Dynamic multi-stage Tandem Queue modeling-based Congestion Adaptive Routing for MANET," *Alexandria Engineering Journal*, Vol.57, Issue.3, ISSN: 1110-0168, May 2017. **Impact Factor:** 3.696, (**SCIE**).
- 28. K. Deepa Thilak, A. Amuthan, "Survey On Improved Artificial Bee Colony Algorithm For Balancing Exploration And Exploitation" International Journal of Innovative Works in Engineering and Technology (IJIWET)", Vol. 3, Issue. 2, pp.192-200, ISSN: 2455-5797, April 2017. (Index Copurnicus)
- 29. **A.Amuthan**, N.Sreenath, P.Boobalan, K.Muthuraj, "Hyper-Erlang Channel Allocation Factor-based QoS Enhancement Mechanism for Mobile Ad hoc Networks," Alexandria Engineering Journal, Vol. 57, Issue.2, pp.799-811, ISSN: 1110-0168, 2017. **Impact Factor:** 3.696, (**SCIE**)
- 30. **A.Amuthan,** R.Kaviarasan, "Trust Based Methodologies for Preventing Attacks In MANET- A Survey", International Journal of Innovative Works in Engineering and Technology (IJIWET), Vol.3, Issue.2, pp.176-188, ISSN: 2455-5797, 2017. (Index Copurnicus)