

**ALAGAPPA UNIVERSITY, KARAIKUDI**

**DEPARTMENT OF COMPUTER SCIENCE**

**Selected Research Publications**

1. B. Karthick, **T. Meyyappan**, "Improving Social Media Data Quality For Effective Analytics: An Empirical Investigation Based On E-BDBMS", Journal of Applied Mathematics and Informatics, June 2023, Volume 41 Issue 5 / Pages.1129-1143 / 2023 / 2734-1194(pISSN) / 2234-8417(eISSN), SOUTH KOREA <https://doi.org/10.14317/jami.2023.1129>,
2. M. Karolin and **T. Meyyappan**, July 2021, "Authentic Secret Share Creation Techniques using Visual Cryptography with Public Key Encryption", Multimedia Tools and Applications, SPRINGER, NETHERLANDS, DOI: [10.1007/s11042-021-11202-6](https://doi.org/10.1007/s11042-021-11202-6)
3. B. Karthick and **T. Meyyappan**, 2020, "A Survey on the Role of Big Data Analytics in Business Decision Making", Journal of Design Engineering, Toronto, CANADA, ISSN:001-9342 Issue 8, pp. 9792-9798
4. M. Karolin and **T. Meyyappan**, December 2019, "Image Encryption and Decryption using RSA algorithm with Share creation Techniques", IJEAT, ISSN: 2249-8958, Volume-9, Issue-2.
5. RM. Vallikannu and **T. Meyyappan**, November 2019, "Prediction of Individual's Character in Social Media", International Journal of Mobile Network and Applications, SPRINGER, NETHERLANDS, Issue : 24, pp.1763-1777, [link.springer.com/article/10.1007/s11036-019-01388-3](https://link.springer.com/article/10.1007/s11036-019-01388-3)
6. RM. Vallikannu, **T. Meyyappan** and SM. Thamarai, November 2019, "Predicting Tamil Movies Sentimental Reviews Using Tamil Tweets", International Journal of Computer Science, Science Publishers, USA, ISSN: 1552-6607(Online), 1549-3636(Print), pp. Volume 15, Issue 11, pp. 1638- 1647 DOI: [10.3844/JCSSP.2019.1638.1647](https://doi.org/10.3844/JCSSP.2019.1638.1647)
7. M. Veni and **T. Meyyappan**, October 2019, "Digital image watermark embedding and extraction using oppositional fruit fly algorithm", International Journal of Multimedia Tools and Applications, SPRINGER, NETHERLANDS, Volume 78, Issue 19, pp. 27491-27510

8. S. Suganya and **T. Meyyappan**, July 2019, "Forecasting and Prediction of air Pollution levels to Protect Human beings from health Hazard", International Journal of Scientific & Technology Research(IJSTR),IJSTR©2020,www.ijstr.org
9. R. Mahesh and **T. Meyyappan**, June 2019, " Fuzzy based cell generalization to improve the data utility with minimal loss of information", International Journal of Intelligent and Fuzzy systems IOS Press NETHERLANDS, Volume 37 (2019), pp. 217-225,<https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs179079>
10. K. Lakshmi and **T. Meyyappan**, February 2019,"Compact in-memory representation of large graph databases for efficient mining of maximal frequent sub graphs", Concurrency Computat Pract Exper. 2019;e5243. WILEY, onlinelibrary.com/journal/cpe © 2019 John Wiley & Sons, Ltd. <https://doi.org/10.1002/cpe.5243>
11. Abdul Rahaman Wahab Sait, M.Arunadevi and **T. Meyyappan**, 2019, "A Survey on Techniques to Detect Malicious Activities on Web", International Journal of Advanced Computer Science and Applications(IJACSA), Vol. 10, No. 2, 2019 ISSN 21565570, 2158107X DOI: 10.14569/IJACSA.2019.0100226, ELSEVIER, U.K.
12. Abdul Rahaman Wahab Sait and **T. Meyyappan**, November 2016, Classification of Web Pages and Extraction of user Browsing Pattern from Web Log using Reinforcement Learning", European Journal of Scientific Research ISSN 1450-216X / 1450-202X Vol. 143 No. 1, November, 2016, pp.39-52 <https://journals.riverpublishers.com/index.php/JWE/article/view/3303>
13. Abdul Rahaman Wahab Sait and **T. Meyyappan**, June 2016, "An Automated Web Page Classifier and an Algorithm For the Extraction Of Navigational Pattern From The Web Data Journal of Web Engineering", Vol. 16, No.1&2 (2017) 126-144 © Rinton Press, USA, June 27, 2016
14. M.Karolin and **T.Meyyappan**, July 2015, RGB Based Secret Sharing Scheme in Color Visual Cryptography ISSN (Online) 2278-1021 ISSN (Print) 2319-5940 International Journal of Advanced Research in Computer and Communication Engineering Vol. 4, Issue 7, July 2015,IJARCCE, DOI: 10.17148/IJARCCE.2015.4734 151

15. Jeyabharathy S., **Padmapriya Arumugam**(2023), Stratified Sampling-Based Deep Learning Approach to Increase Prediction Accuracy of Unbalanced Dataset. *Electronics* 2023, 12,4423.  
<https://doi.org/10.3390/electronics12214423>
16. P. Priyanga, **Padmapriya Arumugam**, Prognosticating Mobile Application Usage Pattern with Modified Genetic Algorithm and Dynamic Density Updated Clustering Approach, Human Machine Interaction in the Digital Era, © 2024 Taylor & Francis Group, London, ISBN 978-1-032-54998-9 DOI: 10.1201/**9781003428466-34**
17. **Subhasri, Prabhakaran, and Arumugam** Padmapriya (2021) Cryptanalysis for securing DICOM medical contents using multilevel encryption, *International Journal of Biomedical Engineering and Technology* 36.4 (2021): 350-357.
18. Jeyabharathy S., **Padmapriya Arumugam** (2021) Predicting the Decomposition Level of Forest Trees Through Ensembling Methods. In: Bhattacharya M., Kharb L., Chahal D. (eds) *Information, Communication and Computing Technology. ICICCT 2021. Communications in Computer and Information Science*, vol 1417. Springer, Cham. [https://doi.org/10.1007/978-3-030-88378-2\\_20](https://doi.org/10.1007/978-3-030-88378-2_20).
19. Mu. Annalakshmi, **A.Padmapriya** (2020), Evidence Phrase Based Combined Relevance for Web Information Filtering, *International Journal on Emerging Technologies* 11(4), June 2020, pp.72-77
20. G. Yogeswari, **A.Padmapriya** (2019), Recommender System for Nutrient Management Based on Precision Agriculture, *International Journal of Recent Technology and Engineering*, November 2019, ISSN 2278-3075 (Online), Vol. 8 Issue 4, pp. 227-235
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22. R. Ruba Mangala, **A.Padmapriya** (2019), Visualizing the impact of climatic changes on Pest and Disease Infestation in Rice (*Oryza sativa* L.), *International Journal of Recent Technology and Engineering*, September 2019, ISSN 2277-3878 (Online), Vol. 8 Issue 3, pp. 8413-8421

23. Mu. Annalakshmi, **A.Padmapriya** (2019), Personalized medical information filtering using evidence phrases, International Journal of Innovative Technology and Exploring Engineering, August 2019, ISSN 2278–3075 (Online), Vol. 8 Issue 10, pp. 3299–3307
24. N. Kanagaraj, **A.Padmapriya** (2019), Symmetric Cryptographic Framework for Network Security, International Journal of Innovative Technology and Exploring Engineering, August 2019, ISSN 2278–3075 (Online), Vol. 8 Issue 10, pp. 3803–3808
25. R. Ruba Mangala, **Dr. A. Padmapriya** (2018), Prediction based Agro Advisory System for Crop Protection, Springer – Cham, LNDECT, Vol. 26, ISBN 978–3–030– 03145, 212– 213.
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27. Subhasri, **P; Padmapriya, A** (2017), “Cryptanalysis of Digital Imaging and Communications in Medicine (DICOM) Medical contents Encryption using Modified Vigenere Cipher and Multilevel Encryption”, Research Journal of Pharmaceutics, Biological and Chemical Sciences, Sep–Oct. 2017, Volume 8 (Issue 5), Page No. 485–493
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29. T. Hemakala **S. Santhoshkumar**, “Advanced Classification Method of Twitter Data using Sentiment Analysis for Airline Service”, International Journal of Computer Sciences and Engineering
30. **Sundar Santhoshkumar**, “A simple data mining model for heart disease prediction”, Journal of Global Pharma Technology
31. **S. Santhoshkumar**, “A Study Of Stress Caused By Social Interactions In Social Networks”, International Journal of Computer Engineering and Applications

32. **S. Santhoshkumar**, "Study and Analysis of Infrequent Behaviour Patterns in Business Process Event Logs", International Journal of Computer Science and Mobile Computing
33. **Sundar Santhosh Kumar**, "Colony collapse disorder (CCD) in honey Bees Caused by EMF radiation", Bioinformation
34. **S.Santhoshkumar**, "A Study of Data Mining Techniques for Auto Immune Diseases", International Journal Of Pure And Applied Mathematics
35. Langeswaran Kulanthaivel, Jeyakanthan Jeyaraman, Abir Biswas, Gowtham Kumar Subbaraj, **S Santhoshkumar**, "Identification of potential inhibitors for Penicillin binding protein (PBP) from Staphylococcus aureus", Bioinformation
36. Thasil Mohamed, **Sundar Santhoshkumar** and E. Ramaraj, "Process Analytics Model for Health Care using IoT and Big Data Techniques", International Journal on Emerging Technologies
37. Gavaskar Langeswaran K, **Santhoshkumar**, "Antioxidant, anti-microbial and anti-cancer effectiveness of marine macro alga Ulva fasciata Delile", Biomedical Research
38. M. Sangeetha **Sundar Santhoshkumar**, C.Balakrishnan, P.Subhasri, V.Lankeswara, "Cloud Based User Analytics And Dynamic Page Refreshment Application For Web Portal", International Journal of Recent Technology and Engineering (IJRTE)
39. E .Ramaraj, N.Akshaya, **Sundar Santhoshkumar**, "Credit Card User Frequent Buying Prediction Analysis using Cluster Methods", International Journal of Innovative Technology and Exploring Engineering
40. **S. Santhoshkumar** S.Arunpandian , S.S.Dhenakaran, "IoT Enabled Visual Recognition Model for Biometric Authentication", International Journal of Advanced Trends in Computer Science and Engineering
41. Dharani Nedunchezian, Kulanthaivel Langeswaran, **Sundar Santhoshkumar**, "Identification of novel inhibitor targeting Fyn kinase using molecular docking analysis", Bioinformation
42. S Suganya, T Meyyappan, **S Santhosh Kumar**, "Performance Analysis of K Means and K Medoids Algorithms in Air Pollution Prediction," International Journal of Recent Technology and Engineering

43. **S Santhosh Kumar**, A Sumathi, "Process Analytics Model Approach in Healthcare: The Technological Perspective," Opportunities and Challenges in Digital Healthcare Innovation
44. Gokiladevi, M., **Sundar Santhoshkumar**, S. Gavaskar, J. Jegathesh Amalraj, "Study And Identification Of Possible Research Directions Of Chronic Kidney Disease (CKD) Prediction Using Data Mining Techniques", Journal of Critical Reviews
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46. **S. Santhosh Kumar** C. Balakrishnan, S. Gavaskar, J. Joseph Sahayarayan , J. Jegathesh Amalraj, "Early Evaluation of Type-2 Diabetics Mellitus Disease", International Journal on Emerging Technologies
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52. Anwar R Shaheen, **Santhoshkumar**, "Efficient Task Scheduling of Virtual Machines using Novel Spectral Partitioning and Differential Evaluation Algorithm", International Journal of Advances of Soft Computing and its Applications 14(1), 2022

53. Uma. R, **Sundar Santhoshkumar**, "An Illustration of Rheumatoid Arthritis Disease Using Decision Tree Algorithm", An International Journal of Computing and Informatics, Informatica 46(2022)
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