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Research Area: Network Security, Data Mining & Digital Image Processing

**List of Journal Publications**

1. J. Gowthami and N.Shanthi, "Secure Fuzzy Extractor based remote user validation scheme for Wearable devices", International Journal of Engineering Research & Technology (IJERT), 2018.
2. Thiagarajan, D., and N. Shanthi. "A modified multi objective heuristic for effective feature selection in text classification", Cluster Computing, 1-11, 2017.
3. Sureshkumar, T., and N. Shanthi. "Multi-Level Web Data Extraction Based Topical Visual Structure Clustering for Efficient Web Search." Journal of Computational and Theoretical Nanoscience, 4216-4221, 2017.
4. Sarumathi S, Shanthi N, Sharmila M, "Weighted Delta Factor Cluster Ensemble Algorithm for Categorical Data Clustering in Data Mining", The International Arab Journal of Information Technology, 2017
5. R. Jothilakshmi, N. Shanthi, "Combining Multiple Term Selection Methods for Automatic Query Expansion in Pseudo Relevance Feedback using Rank Score Method", Vol. 7, No. 1, January 2017, pp.910 – 922.
6. K. Gowsic, Dr. N. Shanthi, B. Preetha, "Firefly resources optimization technique for data delivery in wireless multimedia sensor networks", Asian Journal of Research in Social Sciences and Humanities, Vol. 7, No. 1, January 2017, pp. 1011-1029.
7. R. Umamaheswari Dr. N. Shanthi, "A Novel Method for Classification of Unstructured Documents by using Wordnet based Semantic Similarity", Vol. 6, No. 12, December 2016, pp. 307-312.
8. Sundarapandiyar S., Shanthi N. and Mohamed Yoonus M., "Performance Analysis of Syllable Based Tamil Language Robust Speech Recognition System Using Modified Group Delay Function, Gammatone Cepstral

- Coefficients, Hidden Markov Model and Deep Neural Network”, I J C T A, 9(7), 2016, pp. 3407-3419.
9. Sundarapandiyan S., Shanthi N. and Mohamed Yoonus M., “Syllable Based Tamil Language Continuous Robust Speech Recognition Using MGDFGWCC with DNN-HMM”, I J C T A, 9(7), 2016, pp. 3391-3400.
  10. Sarumathi S, Shanthi N, Sharmila M, “Weighted Delta Factor Cluster Ensemble Algorithm for Categorical Data Clustering in Data Mining”, The International Arab Journal of Information Technology.
  11. S. Sarumathi, Dr. N. Shanthi, “A Neural Network based Cluster Ensemble Approach for Biological Data Clustering”, Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 8, August 2016, pp. 745-763.
  12. Umamaheswari R, Shanthi N & Thenmozhi M, ‘A novel Approach to improve Efficient Information Retrieval based on Natural Language Processing’, International Journal of Latest trends in Engineering and Technology, vol. 7, no. 3, June 2016, ISSN- 2278- 621X, 2016.
  13. Reka M, Dr. N. Shanthi, “An Efficient Multi – Dimensional Level based Semantic Relational Depthness Clustering for Enhancing Web Document Clustering”, Asian Journal of Research in Social Sciences and Humanities, Vol. 6, Special Issue Sept 2016, pp. 343-356.
  14. Pavithra, Dr. N. Shanthi, “A Survey on Detection of Diabetic Retinopathy and Glaucoma from Fundus Images”, International Journal of Science and Research (IJSR), Vol. 5, Issue 7, July 2016.
  15. Sarumathi Sengottaian, Shanthi Natesan, Ranjetha Palanisamy, “Comprehensive Analysis of Big Data and its Tools”, Journal of Information Technology and Sciences, Vol. 2 No. 1, 2016.
  16. Saranya. R, Padma. E, Shanthi. N, “Geographic routing based adaptive location update for mobile ad hoc networks”, International Journal of Emerging Technology in Computer Science & Electronics, ISSN: 0976 – 1353 Volume 21 Issue 2 – APRIL 2016.
  17. N Aravindhraj, N Shanthi, “Multimodal Biometric Authentication System Using Feature Level Fusion”, International Journal of Science and Engineering Research, Vol 4 Issue 4 April – 2016 3221 5687, (P) 3221 568X.
  18. K. Gowsic, A. Sivanantham, Dr. N. Shanthi, B. Preetha, “A novel approach for energy efficient Reliable routing using TABU in Wireless ad hoc networks”, International Journal of Emerging Technology in Computer Science & Electronics, Volume 20 Issue 1 February 2016.
  19. S. Sarumathi, N. Shanthi, P. Ranjetha, “Analysis of diverse cluster ensemble techniques”, WASET International Journal of Computer, Electrical, Automation, Control and Information Engineering, Volume 9 Issue 11 Pages 2182-2192, 2015.

- 20.R. Umamaheswari and N. Shanthi, "An Efficient Hybrid Information Retrieval Approach for Unstructured Document Classification", International Journal of Applied Engineering Research, Volume 10, Number 24 (2015) pp 44504 – 44508.
- 21.Saranya. R, Padma. E, Shanthi. N, "Survey on QOS routing in mobile ad hoc networks", International Journal of Intellectual Advancements and Research in Engineering Computations, ISSN: 2348 – 2079 June – 2015.
- 22.S Sarumathi, N Shanthi, "Comprehensive Analysis of Data Mining Tools", WASET International Journal of Computer, Electrical, Automation, Control and Information Engineering, 1302-1312, Vol.9, No.3, 2015.
- 23.N Aravindhraj, N Shanthi, "A survey on multimodal biometrics authentication and template protection", International Journal of Intellectual Advancements and Research in Engineering Computations, 2015.
- 24.C Rajan, N Shanthi, "Genetic based optimization for multicast routing algorithm for MANET", Sadhana, 2341-2352 Vol.40, No.8, 2015.
- 25.S. Sarumathi, N. Shanthi, S. Vidhya, P. Ranjetha, "STATISTICA Software: A State of the Art Review", International Journal of Computer, Control, Quantum and Information Engineering Vol:9, No:2, 2015.
- 26.S. Sarumathi, N. Shanthi, S. Vidhya, "Satellite Rainfall Prediction Techniques - A State of the Art Review", International Journal of Environmental, Ecological, Geological and Geophysical Engineering Vol:9, No:2, 2015.
- 27.R.Arthi, E.Padma, Dr.N.Shanthi, "Security Enhancement For Efficient Routing In MANET", International Journal of Intellectual Advancements and Research in Engineering Computations, ISSN: 2348-2079, MAR-2015.
- 28.B.Uvaraja, Dr.N.Shanthi, "Dynamic allocation method for efficient load balancing in virtual machines for cloud computing environment", International Journal of Intellectual Advancements and Research in Engineering Computations, ISSN: 2348-2079, MAR-2015.
- 29.Mrs.S.Sarumathi, Dr.N.Shanthi, Ms.M.Sharmila, "Linked Spectral Graph based Cluster Ensemble Approach using Weighted Spectral Quality Algorithm for Medical Data Clustering", WSEAS TRANSACTIONS on COMPUTERS, E-ISSN: 2224-2872, Volume 14, 2015.
- 30.R.Arthi, E.Padma, Dr.N.Shanthi, "A heuristic approach for secured routing in MANET", International Journal of Future Innovative Science and Technology (IJFIST), May 2015.
- 31.T.Sureshkumar and N.Shanthi, "LVC-D: A Technique to Extract Web Page Data Using Layout, Visual and Content-Based Features", International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 10, Number 2 (2015) pp. 2465-2481.

### **List of Conference Publications**

1. S.Lalitha, N.Shanthi, “An Identification and treatment of amblyopia using Image Processing”, International conference on Information sciences and renewable energy sources, March 2019.
2. Gowthami J., Shanthi N., “Multi-factor based user authentication scheme for lightweight IoT devices”, International Conference on Intelligent Computing and Communication for Smart World (I2C2SW), Dec 2018.
3. Aravindhraj Natarajan, Dr.N.Shanthi, “A Survey On Multimodal Biometrics Authentication And Template Protection”, International Conference on Intelligent Computing and Communication for Smart World (I2C2SW), Dec 2018.
4. Kanimozhi, Krishnamoorthy N, Shanthi N., “Modified DFGA-PSO scheduling of managing power consumption in cloud”, International conference on cyber physical systems for next generation computing, March 2018.
5. Gowthami J., Shanthi N., Krishnamoorthy N., “Secure Three-Factor Remote user Authentication for E-Governance of Smart Cities”, Proceedings of the 2018 International Conference on Current Trends towards converging Technologies, ICCTCT 2018.
6. A.S.Jayasurya, Dr.N.Shanthi, “Corrosion prediction Analytic Engine exploiting ANN and GA”, Hindustan Institute of Technology, March 2018.
7. Dr.N.Shanthi, “Scheduling of workflow in cloud with multi objective approach”, 6th International conference on Advances in computing, control, communication, Automation and structural Engineering, April 2017.
8. S.Kalpana, Dr.N.Shanthi, “Potential of IoT in Agriculture”, National conference on challenges and Innovations in Information technology at Kongu Engineering college, March 2017.

9. Sujitha, Dr.N.Shanthi, "Healthcare system based on IoT with Body sensor network", International conference on advancements in science, Engineering, Technology & Management at M.P.N.M.J. Engineering College, March 2017.
10. S.Sundarapandiyan, Dr.N.Shanthi, "Recurrent neural network based language model for large vocabulary continuous tamil language speech recognition system", 1st International conference on Recent Innovations in Engineering, technology and Management at Nandha Engineering College, March 2017.
11. S.Sundarapandiyan, Dr.N.Shanthi, "An enhanced hybrid DBN/HMM for Tamil language speech recognition system", 1st International conference on Recent Innovations in Engineering, technology and Management at Nandha Engineering College, March 2017.
12. Dr.N.Shanthi, "Augmented reality based IoT concept for smart Environment", 1st International conference on Recent Innovations in Engineering, technology and Management at Nandha Engineering College, March 2017.
13. Sujitha, Dr.N.Shanthi, "Multi-objective scheduling workflow applications in cloud computing", 1st International conference on Recent Innovations in Engineering, technology and Management at Nandha Engineering College, March 2017.
14. D.Thiyagarajan, Dr.N.Shanthi, "An Efficient document clustering by using adaptive k-means clustering algorithm", 1st International conference on Recent Innovations in Engineering, technology and Management at Nandha Engineering College, March 2017.
15. Dr.N.Shanthi, "Detection and Recognition of the text in image using cloud computing clustering ", 1st International conference on Recent Innovations in Engineering, technology and Management at Nandha Engineering College, March 2017.

16. Pavithra, Dr.N.Shanthi, “Diabetes detection using segmentation of super pixel in SLO images”, 1st International conference on Recent Innovations in Engineering, technology and Management at Nandha Engineering College, March 2017.
17. Saranya.R, Padma.E, Shanthi.N “Increasing Packet Delivery Ratio using Geographic routing in Manet“, International Conference On Advances In Electrical, Electronics And Computational Intelligence(icaeeci'16),2016.
18. Aravindhraj Natarajan, Dr.N.Shanthi, “Multimodal Biometric Authentication using fingerprint and hand vein” International Conference on Frontiers of computational Intelligence, 2016.
19. Mr.B.Uvaraja, Dr.N.Shanthi, “Dynamic VM allocation algorithm using contemporary VM load balancers in cloud computing”, 5th international conference on “Advanced computing, Control Systems, Machines and Embedded Technology”, March 2015.
20. R.Arthi, E.Padma, Dr.N.Shanthi, “A Heuristic Approach for secured Routing in MANET”, International Conference on Electrical, Electronics and Computer Engineering, March 2015.