

Dr S.GEETHA
Professor
Computer Science and Engineering
Vellore Institute of Technology, Chennai Campus
Chennai - 600127
Mobile: 9842550862
Email: geethabaalan@gmail.com

Specialization: Machine Learning, IoT, Computer Vision, Security

International Journals

1. S.Geetha, C.S.Akshayanat, C.S.Abhishek, "Machine Vision based Fire Detection Techniques : A Sruvey" , Springer -- Fire Technology, pp. 1-42, 2020, Accepted for Publication. **(SCI – Impact Factor : 1.671)**
2. S.Abijah Roseline, S.Geetha, Seifedine Kadry, Yunyoung Nam, "Intelligent Vision-based Malware Detection and Classification using Deep Random Forest Paradigm", IEEE Access, pp. 1-20, 2020, Accepted for Publication, DOI 10.1109/ACCESS.2020.3036491. **(SCI – Impact Factor : 3.745)**
3. Malathy Jawahar, N.K.Chandra Babu, K.Vani, L. Jani Anbarasi, S.Geetha, "Vision based Inspection System for Leather Surface Defect Detection using Fast CONvergence Particle Swarm Optimization ensemble Classifier Approach", Springer – Multimedia Tools and Applications, pp. 1-22, 2020, Print ISSN: 1380-7501, Electronic ISSN: 1380-7501. DOI: 10.1007/s11042-020-09727-3 (Impact factor – 2.313)
4. Rajesh Kumar, S.Geetha, "Malware Classification using XGBoost-Gradient Boosted Decision Tree", Advances in Science, Technology and Engineering Systems Journal, Vol. 5, No. 5, pp. 536-549, September 2020.
5. Asnath Vicky Phamila, Raunak Gopal, S.Geetha, "Dynamic Gesture Recognition System to Control Media", International Journal of Engineering and Advanced Technology (IJEAT), Vol. 9, No. 5, pp. 572 – 575s, May 2020. ISSN : 2249-8958. **(Scopus Indexed)**
6. Geetha R and Geetha S, "Multi-Layered "Plus-Minus one" Reversible Data Embedding Scheme", Journal of Information Hiding and Multimedia Signal Processing, Vol. 11, No. 2, pp. 58-69, June 2020. ISSN 2073-4212. **(Scopus Indexed)**
7. Hemalatha, J., Kavitha Devi, M.K. and Geetha, S. (2020) "Effective image stego intrusion detection system using statistical footprints of the steganogram and fusion of classifiers", Int. J. Computer Aided Engineering and Technology, Vol. 13, No. 3, pp.325–340. ISSN online : 1757-2665; ISSN print - 1757-2657. (May 2020) **(Scopus Indexed)**
8. R.Geetha, S.Geetha, "Embedding electronic patient information in clinical images: an improved and efficient reversible data hiding technique", Springer – Multimedia Tools and Applications, pp. 1-22, 2020, Print ISSN: 1380-7501, Electronic ISSN: 1573-7721. DOI: 10.1007/s11042-019-08484-2 **(Impact factor – 2.313)**
9. R.Geetha, S.Geetha, "Efficient high capacity technique to embed EPR information and to detect tampering in medical images", Journal of Medical Engineering and Technology, Taylor &

Francis, pp. 1-20, Feb 2020, ISSN : 0309-1902 DOI: <https://doi.org/10.1080/03091902.2020.1718223>. **(SCI-E Indexed)**

10. C Bala Subramanian, J Hemalatha, S P Balakannan and S Geetha, “Improving Image Steganalyser Performance using Second Order SPAM Features Extracting through Contourlet Transform”, International Journal of Engineering and Advanced Technology (IJEAT), pp. 137-143, Vol. 9, No. IS4, ISSN: 2249 – 8958, Volume-9 Issue-1S4, December 2019. **(Scopus Indexed)**
11. Punithavathi P., Geetha S., “Cancelable Biometric Transformations for E-Passport Security”, International Journal of Engineering and Advanced Technology (IJEAT), Vol. 9, No. 1S3, pp. 342-346, December 2019. ISSN : 2249-8958 DOI: 10.35940/ijeat.A1064.1291S319. **(Scopus Indexed)**
12. Geetha R, Geetha S., “Multi-Layered ‘Odd-Even’ Reversible Embedding for Encrypted Images”, International Journal of Engineering and Advanced Technology (IJEAT), Vol. 9, No. 1S3, pp. 347-351, December 2019. ISSN : 2249-8958 DOI:10.35940/ijeat.A1065.1291S319. **(Scopus Indexed)**
13. Abijah Roseline S., Geetha S., “An Efficient Malware Detection System using Hybrid Feature Selection Methods”, International Journal of Engineering and Advanced Technology (IJEAT), Vol. 9, No. 1S3, pp. 224-228, December 2019. ISSN : 2249-8958 DOI:10.35940/ijeat.A1043.1291S319. **(Scopus Indexed)**
14. M.Maheswari, S.Geetha, S.Selvakumar, “Adaptable and proficient Hellinger Coefficient Based Collaborative Filtering for recommendation system”, Springer - Cluster Computing, The Journal of Networks, Software Tools and Applications, Vol. 22, No., 5, pp. 12325-12338, 2019. Print ISSN: 1386-7857, Electronic ISSN: 1573-7543. DOI: <https://doi.org/10.1007/s10586-017-1616-7> **(Impact factor – 2.04)**
15. J.Hemalatha, M.K.Kavitha Devi, S.Geetha, “Improving image steganalyser performance through curvelet transform denoising”, Springer - Cluster Computing, The Journal of Networks, Software Tools and Applications, Vol. 22, No.5, pp.11821-11839. Print ISSN: 1386-7857, 2019Electronic ISSN: 1573-7543. DOI: <https://doi.org/10.1007/s10586-017-1500-5> **(Impact factor – 2.04)**
16. S. Koteeswaran, N. Malarvizhi, E. Kannan, S. Sasikala, S. Geetha, “Data mining application on aviation accident data for predicting topmost causes for accidents”, Springer - Cluster Computing, The Journal of Networks, Software Tools and Applications, Vol. 22, No. 5, pp.11379-11399, 2019. Print ISSN: 1386-7857, Electronic ISSN: 1573-7543. DOI: <https://doi.org/10.1007/s10586-017-1394-2> **(Impact factor – 2.04)**
17. Raunak Gopal, Asnath Victy Phamila, S.Geetha, “A Hand Geometry Verification System relating Finger Length, Position of the finger base and Palm center”, International Journal of Engineering and Advanced Technology (IJEAT), Vol. 8, No. 5, pp. 1974 – 1979, June 2019. ISSN : 2249-8958. **(Scopus Indexed)**
18. P.K.A. Chitra, S.Geetha, S. Appavu alias Balammurugan, “Multi Label Learning Approaches for Multi Species Avifunal Occurrence Modelling : A Case Study of South Eastern Tamil Nadu”, **Int. J. of Business Intelligence and Data Mining – Indesrsience**, Vol. 15, No. 4, pp. 449-477, 2019. ISSN 1743-8195, DOI: 10.1504/IJBIDM.2018.10008307 **(Scopus Indexed)**
19. P.Punithavathi, S.Geetha, “Partial DCT-based cancelable biometric authentication with security and privacy preservation for IoT applications”, Springer – Multimedia Tools and

Applications, Vol. 78, No. 18, pp. 25487-25514, 2019, Print ISSN: 1380-7501, Electronic ISSN: 1573-7721. DOI: 10.1007/s11042-019-7617-1 (**Impact factor – 1.541**)

20. J.Hemalatha, M.K. Kavitha Devi, S.Geetha, “Enhancing the JPEG Image Steganography Security by RSA and attaining High Payload using Advanced DCT Replacement and Modified Quantization Table”, *Inderscience - International Journal of Business Intelligence and Data Mining*, Vol. 14, No. 1, pp. 138-154, 2019. ISSN: 1743-8187 . DOI: 10.1504/IJBIDM.2019.096812 (SCOPUS, ACM Digital Library, DBLP indexed)
21. P.Punithavathi, S.Geetha, Marimuthu Karuppiah, SK Hafizul Islam, Mohammad Mehedi Hassan, Kim-Kwang Raymond Choo, “A lightweight machine learning-based authentication framework for smart IoT devices”, *Elsevier – Science Direct, Information Sciences*, Vol. 484, No. 3, pp. 255-268, 2019. ISSN: 0020-0255. DOI : 10.1016/j.ins.2019.01.073 (**Impact factor – 4.305**)
22. G. Nirmala, S.Geetha, S.Selvakumar, “Optimization of Path Planning Problem of a Mobile Robot using Hybrid Exploration and Exploitation with Hill Climbing technique”, *Sylwan Journal* , Vol. 162, No. 5, pp. 58-71, 2018, ISSN: 0039-7660 (**Impact factor – 0.623**)
23. S.Geetha, P.Punithavathi, A. Magnus Infanteena, Siva S.Sivatha Sindhu, “A Literature Review on Image Encryption Techniques, *International Journal of Information Security and Privacy*, Vol. 12, No. 3, pp. 42-83, 2018. DOI : 10.4018/IJISP.2018070104
24. K.Angaleeswari, T.Ezhilarasan, M.Perumal, S.Geetha, V.Swaminathan, “Study on k - extensibility and Weakly k -extensibility in Harary Graphs ($H_{m,n}$), for specific values of m and n”, *International Journal of Mathematics Trends and Technology (IJMTT)*, Special Issue NCCFQET may 2018, pp. 1-7, 2018. ISSN: 2231-5373
25. P.Punithavathi, S.Geetha, “Visual Cryptography: A Brief Survey”, **Information Security Journal : A Global Perspective – Taylor and Francis** ,Vol. 26, no. 6, pp. 305-317, 2017. ISSN 1939-3555. (ACM, Scopus Indexed) - DOI: <http://dx.doi.org/10.1080/19393555.2017.1386249>,
26. P.Punithavathi, S.Geetha, “Random Projection-based Cancelable Template Generation for Sparsely Distributed Biometric Patterns”, **Indonesian Journal of Electrical Engineering and Computer Science(IJEECS)**, Vol. 7, No. 3, pp. 877–886, 2017. ISSN 2502-4760. (Scopus Indexed) DOI: 10.11591/ijeecs.v7.i3.pp877-886
27. P.Punithavathi, S.Geetha, “Securing Multimodal Biometrics Using Random Projection-Based Template Transformation”, **International Journal of Control Theory and Applications**, Vol. 9, No. 52, pp. 33–43, 2016. ISSN 0974-5572. (Scopus Indexed)
28. P.Punithavathi, S.Geetha, “Can Cancellable Biometrics Preserve Privacy?”, **Elsevier – Biometric Technology Today**, Vol. 2017, No. 7, pp. 8–11, 2017. ISSN 0969-4765. (Scopus Indexed)
29. S. Subburam, S. Selvakumar, S. Geetha, “High performance reversible data hiding scheme through multilevel histogram modification in lifting integer wavelet transform”, **Springer - Journal of Multimedia Tools and Applications**, Vol. 77, No. 6, pp. 7071-7095, ISSN 1380-7501, 2018.(**Impact factor – 1.346**) (pp. 1-25, DOI: 10.1007/s11042-017-4622-0)
30. S.Sasikala, S. Appavu alias Balammurugan, S.Geetha, “A novel adaptive feature selector for supervised classification”, **Information Processing Letters – Elsevier – Science Direct**, Vol. 117, pp. 25-34, 2017. ISSN 0020-0190 . (**Impact factor – 0.605**). DOI: [10.1016/j.ipl.2016.08.003](http://dx.doi.org/10.1016/j.ipl.2016.08.003)

31. G.Nirmala, S.Geetha, S.Selvakumar, "Mobile Robot Localization and Navigation in Artificial Intelligence: Survey", **Computational Methods in Social Science**, Vol. 4, No. 2, pp. 12-22, 2016. ISSN: 2344 – 1232
32. S. Geetha and Ashish Sharma, "Implementation of Artificial Neural Networks in Multimodal Image Recognition and Text," **International Journal of Advanced Research**, Vol. 4, No. 8, pp. 1285–1291, 2016. ISSN 2320-5407
33. A.Kanmani, N.Karthikeyan, S.Geetha, " High Capacity Separable Data Hiding using Repeated Histogram Modification in Integer Wavelet Transform Domain", **Asian Journal of Information Technology, Medwell Journals**, Vol. 15, No. 5, pp. 862-865, 2016. ISSN: 1682-3915. (SCOPUS Indexed)
34. S.Sasikala, S. Appavu alias Balammurugan, S.Geetha, "A Novel Memetic Algorithm for Discovering Knowledge in Binary and Multi Class Predictions based on Support Vector Machine", **Applied Soft Computing – Elsevier – Science Direct**, Vol. 49, pp. 407–422 , 2016. ISSN 1568-4946 . (Impact factor – 2.857). (DOI : <http://dx.doi.org/10.1016/j.asoc.2016.08.038>)
35. S.Hasan Hussain, S. Geetha, M. AmuthaPrabakar, "Design and Implementation of Adaptive Model For Sustainable Home Automation Using Internet Of Things (IoT)", **International Journal of Advanced Engineering Technology**, Vol. 7, No. 1, pp. 827-829, 2016. (Indexed in Google Scholar; EISSN 0976-3945)
36. T. B Sivakumar, S. Geetha, M. AmuthaPrabakar, "An Efficient Advanced Hierarchical Attribute Based Scheme With Asymmetric Encryption For Personal Health Records In Cloud Computing", **International Journal of Advanced Engineering Technology**, Vol. 7, No. 1, pp. 892-895, 2016. (Indexed in Google Scholar; EISSN 0976-3945)
37. S.Sasikala, S. Appavu alias Balammurugan, S.Geetha, "Improving Detection Performance of Artificial Neural Network by Shapley Value Embedded Genetic Feature Selector", **Neural Network World**, ISSN 1210-0552, Vol. 6, No. 2, pp. 175-201, 2016. (Impact factor – 0.48). (DOI: 10.14311/NNW.2015.25.027)
38. S.Sasi Kala, Appavu Balamurugan and S Geetha, "Multi Filtration Feature Selection (MFFS) to improve the Discriminatory Ability in Clinical Data Set", **Applied Computing and Informatics, Elsevier, Science Direct**, Vol. 12, pp. 117-127, 2016. (Scopus Indexed) DOI: 10.1016/j.aci.2014.03.002
39. S.Muthuramalingam, N.Karthikeyan, S.Geetha, Siva S.Sivatha Sindhu, "Stego Anomaly Detection in Images exploiting the Curvelet Higher Order Statistics using Evolutionary Support Vector Machine", **Springer - Journal of Multimedia Tools and Applications**, Vol. 75, No. 21, 2016.(Impact factor – 1.346) (pp. 1-35, DOI: 10.1007/s11042-015-2984-8)
40. B. Muthukumar, Siva S.Sivatha Sindhu, S.Geetha, Dr.A.Kannan, "Intelligent Network-Misuse-Detection-System using Neurotree Classifier", **Neural Network World**, ISSN 1210-0552, Vol. 25, No. 5, pp. 541-564, 2015. (Impact factor – 0.48). (DOI: 10.14311/NNW.2015.25.027)
41. S.Hasan Hussain, S. Geetha, M. AmuthaPrabakar, "Listing Past, Current, and Upcoming Research in Ubiquitous Computing – A Review", **International Journal of Applied Engineering Research**, Vol. 10, No. 55, pp. 2142-2145, 2015. (Indexed in Scopus, Impact factor – 0.113)

42. T. B Sivakumar, S. Geetha, M. AmuthaPrabakar, “ Role Based Access Control Policy in Secure Sharing Healthcare Data Using Multi Cloud”, **International Journal of Applied Engineering Research**, Vol. 10, No. 55, pp. 2302-2307, 2015. (Indexed in Scopus, Impact factor – 0.113)
43. S.Sirin Seema, M.Maheswari, S.Selvakumar, S.Geetha, “Reckoning Trust in E-Commerce by Mining Product Reviews”, **International Journal of Applied Engineering Research**, Vol. 10, No. 55, pp. 1875-1879, 2015. (Indexed in Scopus, Impact factor – 0.113)
44. P.K.A. Chitra, S. Appavu Alias Balamurugan, S.Geetha, “Modeling and Analysis of Multi Label Classification Algorithms”, **International Journal of Applied Engineering Research**, Vol. 10, No. 55, pp. 1116-1121, 2015. (Indexed in Scopus, Impact factor – 0.113)
45. G.Nirmala,S.Geetha,S.Selvakumar, “Optimal long run cost path of Mobile Robot Navigation using QLearning Algorithm”, **International Journal of Applied Engineering Research**, Vol. 10, No. 9, pp. 6867-6870, 2015. (Indexed in Scopus, Impact factor – 0.113)
46. M.Parvathy, K Sundarakantham, S.Geetha, S.Mercy Shalinie, “An Enhanced Prediction Mechanism for Recommendation System using Power Graph”, “**Australian Journal of Basic & Applied Sciences**, Vol. 8, No.18,pp. 367-373, 2014.