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List of Publications

INTERNATIONAL JOURNALS

1. 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 – 1.541)
2. 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>.
3. 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
4. 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)
5. 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)
6. 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)

7. 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)
8. 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)
9. 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)
10. 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)
11. 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 – Inderscience, Vol. 15, No. 4, pp. 449-477, 2019. ISSN 1743-8195,DOI: 10.1504/IJBIDM.2018.10008307 (Scopus Indexed)
12. 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)
13. 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)
14. 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)
15. 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)
16. S.Geetha, P.Punithavathi, A. Magnus Infanteena, Siva S.Sivatha Sindhu, “A Literature Review on Image Encryption Techniques”, IGI Global International Journal of Information Security and Privacy, Vol. 12, No. 3, pp. 42-83, 2018. DOI : 10.4018/IJISP.2018070104
17. 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
18. 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>,
19. 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/ijeeecs.v7.i3.pp877-886
20. 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)
21. 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)

22. 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)
23. 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
24. 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
25. 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
26. 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)
27. 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>)
28. 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)
29. 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)

30. 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)
31. 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
32. 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)
33. B. Muthukumar, Siva S.Sivatha Sindhu, S.Geetha, Dr.A.Kannan, "Intelligent NetworkMisuse-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)
34. 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)
35. 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)
36. S.Sirin Seema, M.Maheswari, S.Selvakumar, S.Geetha, "Reckoning Trust in ECommerce 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)
37. 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)
38. 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)

INTERNATIONAL CONFERENCES

- 1.S.Abijah Roseline, A. D. Sasisri, S. Geetha, and C. Balasubramanian, "Towards Efficient Malware Detection and Classification using Multilayered Random Forest Ensemble Technique", in The IEEE 53rd International Carnahan Conference on Security Technology (ICCST 2019), organized by MIT, Chennai, India, October 1-3, 2019. (DOI : 10.1109/CCST.2019.8888406)
2. S. Abijah Roseline, G. Hari, S. Geetha, and R. Krishnamurthy, "Vision based Malware Detection and Classification Using Lightweight Deep Learning Paradigm", in The Fourth International Conference on Computer Vision & Image Processing (CVIP 2019), Organised by MNIT Jaipur, India, 27-29 September 2019. (Accepted for Publication)
3. S. Abijah Roseline and S. Geetha, "High-Performance Malware Classifier using Dense Convolutional Neural Networks", in The 2nd World Summit on Advances in Science, Engineering and Technology (Indiana Summit 2019), Organised by Indiana University Purdue University, Indiana, USA, October 2-5, 2019. (Accepted for Publication)
4. Rajesh Kumar, Geetha S., "Malware Detection Modeling System", in Proceedings of the IEEE International Conference on Recent Trends in Advanced Computing, ICRTAC-CPS 2018, organized by VIT, Chennai Campus, India, 10-11, September 2018.
5. A.Abijah Roseline, S.Geetha, "Intelligent Malware Detection using Oblique Random Forest Paradigm", in IEEE International Conference on Advances in Computing, Communications and Informatics, (ICACCI 2018), Bangalore, India, September 19- 22, 2018. pp. 330-336, ISBN 978-1-5386-5314-2
6. R.Geetha, S. Geetha, "Improved Reversible Data Embedding In Medical Images Using I-IWT and Pairwise Pixel Difference Expansion", in 3rd International Conference on Next Generation Computing Technologies (NGCT 2017), UPES Dehradun, Communications in Computer and Information Science Series, Springer Singapore, pp. 601-611, 30 – 31 Oct 2017. Published in 2018(Total Acceptance Rate < 15%) .
7. P. Punithavathi, S. Geetha, and S. Sasikala, Generation of Cancelable Iris Template Using Bi-level Transformation, in ACM International Conference on Biometrics and Forensics Engineering ICBFE 2017, at National University of Singapore, Singapore, 22-24 June 20
- 8.P. Punithavathi, S.Geetha, "Dynamic Sectorized Random Projection for Cancelable Iris Template", in IEEE Proceedings International Conference on Advances in Computing, Communications and Informatics (ICACCI -2016), at LNM Institute of Technology, Jaipur 21-24 September 2016.
- 9.R.Geetha, S.Geetha, "Multilevel RDH Scheme Using Image Interpolation", in IEEE Proceedings International Conference on Advances in Computing, Communications and Informatics (ICACCI -2016), at LNM Institute of Technology, Jaipur 21-24 September 2016.

- 10.Dolly Meghani, S.Geetha, "ECG Steganography to secure patient data in an EHealthcare System", in Proceedings of ACM – International Conference Proceedings Series - Women in Research ACM-WIR 2016, Sri Aurobindo Institute of Technology, Indore, 21st March 2016. (ISBN : 978 – 1 – 4503 – 4278 – 0) 1
- 11.P. Punithavathi, S.Geetha, "Cancelable Biometric Template Security using Segmentbased Visual Cryptography", in Proceedings of International Conference on Computer Vision and Image Processing (CVIP -2016), Springer Publishers, at IIT Roorkee, 26-28 February 2016.
- 12.G.Nirmala, S.Geetha, S.Selvakumar, "Intellectual Method of guiding Mobile Robot Navigation using Reinforcement Learning Algorithm", in Proceedings of IEEE International Conference on Engineering and Technology ICETECH-15, Coimbatore, TN, India, pp. 1-4, 20th March 2015.
- 13.S.Geetha, Tutorial on Image content protection in cloud through reversible data hiding: Theory and Implementation, 4th IEEE International Conference on Advances in Computing, Communications and Informatics ICACCI -2015, Cochi, Kerala, 10-13 August 2015. (Accepted for Publication)
- 14.S.Sasi Kala, S. Appavu Balamurugan and S.Geetha, "A Novel Feature Selection Technique for Improved Survivability Diagnosis of Breast Cancer", in Proceedings of 2nd International Symposium on Big Data and Cloud Computing ISBCC '15, Science Direct, Procedia Computer Science, pp. 16-23, organised by VIT University – Chennai Campus, Tamil Nadu, India, March 12-13, 2015.
- 15.S.Sirin Seema, M.Maheswari, S.Selvakumar, S.Geetha, "Reckoning Trust in ECommerce by Mining Product Reviews", in Proceedings of International Conference on Advances in Applied Engineering and Technology ICAAET– 2015, organised by Syed Ammal Engineering College, Ramanathapuram, India, May 14-16, 2015.
- 16.. S.Hasan Hussain, S. Geetha, M. AmuthaPrabakar, "Listing Past, Current, and Upcoming Research in Ubiquitous Computing – A Review", in Proceedings of International Conference on Advances in Applied Engineering and Technology ICAAET– 2015, organised by Syed Ammal Engineering College, Ramanathapuram, India, May 14-16, 2015.
- 17.T. B Sivakumar, S. Geetha, M. AmuthaPrabakar, " Role Based Access Control Policy in Secure Sharing Healthcare Data Using Multi Cloud", in Proceedings of International Conference on Advances in Applied Engineering and Technology ICAAET– 2015, organised by Syed Ammal Engineering College, Ramanathapuram, India, May 14-16, 2015.
18. S.Geetha, Siva S.Sivatha Sindhu, "A Current Survey on Intrusion Detection Systems for Wireless Sensor Networks", in Proceedings of Bilingual International Conference on Information

Technology and Library Science, pp. 108-120, organised by DRDO, New Delhi, 19-21, February 2015.