

DC Member details required:

MEMBERS FROM OTHER UNIVERSITY/INSTITUTIONS (PREFERABLY WITHIN TAMIL NADU)

	MEMBER1
NAME	S.GEETHA
DESIGNATION	PROFESSOR
DEPARTMENT	COMPUTER SCIENCE AND ENGINEERING
NAME OF THE ORGANIZATION/INSTITUTION	VELLORE INSTITUTE OF TECHNOLOGY, CHENNAI CAMPUS
PLACE	CHENNAI
PINCODE	600127
MOBILE	9842550862
E-Mail	geethabaalan@gmail.com geetha.s@vit.ac.in
AREA OF SPECIALIZATION	MACHINE LEARNING, COMPUTER VISION, SECURITY
PUBLICATION(LAST 5 YEAR)	

List of Publications

Books

1. Balasubramanian, C., Geetha, S., *VANET: Routing Protocols and Applications*. United States - Lap Lambert Academic Publishing, 2020. (ISBN No. 978-620-0-49717-8)
2. Geetha, S., and Asnath Vicky Phamila. " Countering Cyber Attacks and Preserving the Integrity and Availability of Critical Systems." IGI Global, 2019. 1-300. Web. Feb 2019. doi: 10.4018/978-1-5225-8241-0. (ISBN: 9781522582410)
3. S.Justus, V.Hepsiba Mabel, S.Geetha. *Knowledge based Software Process Improvement*. United States - Lap Lambert Academic Publishing, 2016. (ISBN No. 978-3-659-97717-6)

Book Chapters

1. Balasubramanian C., Hemalatha J., Geetha S., "A comparative note on recent advances of signal/image processing techniques in healthcare", *Advances in*

Telemedicine for Health Monitoring – Technologies, Design and Applications, IET The Institution of Engineering & Technology, Edited by Tarik A. Rashid, Chinmay Chakraborty and Kym Fraser, London, United Kingdom, Pp. 55-76, Feb. 2019. doi: 10.4018/978-1-5225-8241-0.ch016. (ISBN: 978-1-78561-986-1 (hardback); ISBN 978-1-78561-987-8 (PDF)).

2. P.Punithavathi, S.Geetha, “Digital Healthcare Security Issues”, Countering Cyber Attacks and Preserving the Integrity and Availability of Critical Systems, IGI Global, Pennsylvania, USA. , pp. 290-306, Feb. 2019. doi: 10.4018/978-1-5225-8241-0.ch016. (ISBN: 9781522582410).
3. J Hemalatha, MK Kavitha Devi, S Geetha, “Performance Analysis of Image Denoising with Curvelet Transform in Detecting the Stego Noise”, Innovations in Computer Science and Engineering, Springer, Singapore, pp. 445 – 453, 2019. https://doi.org/10.1007/978-981-10-8201-6_50.
4. J Hemalatha, MK KavithaDevi, S Geetha, “A Comparative Review of Various Machine Learning Approaches for Improving the Performance of Stego Anomaly Detection”, Handbook of Research on Network Forensics and Analysis Techniques, IGI Global, Pennsylvania, USA. , 2018. pp . 351-372, doi: 10.4018/978-1-5225-4100-4.ch019. (ISBN: 9781522541004).
5. J Hemalatha, MK KavithaDevi, S Geetha, “A Recent Study on High Dimensional Features Used in Stego Image Anomaly Detection”, Applications of Security, Mobile, Analytic, and Cloud (SMAC) Technologies for Effective Information Processing and Management, IGI Global, Pennsylvania, USA. , 2018. pp . 49-66, doi: 10.4018/978-1-5225-4044-1.ch003. (ISBN: 9781522540441).
6. P.Punithavathi, S.Geetha, “Visual Cryptography for Securing Images in Cloud”, Combating Security Breaches and Criminal Activity in the Digital Sphere, IGI Global, Pennsylvania, USA. , Mar. 2016. doi:10.4018/978-1-5225-0193-0. (ISBN: 9781522501930).
7. S.Geetha, Siva S.Sivatha Sindhu, “Audio Stego Intrusion Detection System through Hybrid Neural Tree Model”, Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security, IGI Global, Pennsylvania, USA., 45-57, March 2016, doi:10.4018/978-1-5225-0105-3. ISBN No. 9781522501053.

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)**
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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 – Inderscience**, Vol. 15, No. 4, pp. 449-477, 2019. ISSN 1743-8195, DOI: 10.1504/IJBIDM.2018.10008307 **(Scopus Indexed)**
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21. P.Punithavathi, S.Geetha, Marimuthu Karuppiyah, 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)**

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(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
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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)

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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)
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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.

International Conferences

1. S.Geetha, L.Jani Anbarasi, Benson Edwin Raj, Aayush Gupta, Aarya, "AR Learning Platform for Mentally Differently Abled Children", IEEE, Seventh International Conference on Information Technology Trends (ITT) 2020, organized by HCT-Abu Dhabi Women's campus, Abu Dhabi, UAE, November 25-26, 2020. (Accepted for Publications)
2. Vasudevan S., Chauhan N., Sarobin V., Geetha S. , "Image-Based Recommendation Engine Using VGG Model", In: Hura G., Singh A., Siong Hoe L. (eds) Advances in Communication and Computational Technology. Lecture Notes in Electrical Engineering, vol 668, pp. 257-265, 2021. Springer, Singapore. https://doi.org/10.1007/978-981-15-5341-7_21
3. Latha R., Vetrivelan P., Geetha S., "Telemedicine Setup using Wireless Body Area Network over Cloud", in Elsevier Procedia, International Conference on Recent Trends in Advanced Computing 2019 – ICRTAC '19, Vol. 165, pp. 285-291, 2019. (DOI : <https://doi.org/10.1016/j.procs.2020.01.074>)
4. Sudharshan N, AVS Kasturi Karthik, JS Sandeep Kiran, S.Geetha, "Renewable Energy Based Smart Irrigation System", in Elsevier Procedia, International Conference on Recent Trends in Advanced Computing 2019 – ICRTAC '19, Vol. 165, pp. 615-623, 2019. (DOI : <https://doi.org/10.1016/j.procs.2020.01.074>)
5. P.Punithavathi, S.Geetha, "Disruptive smart mobile pedagogies for engineering education", in Science Direct Procedia Computer Science, 9th World Engineering Education Forum, Vol. 172, pp. 784-790, 2020. (DOI : <https://doi.org/10.1016/j.procs.2020.05.112>)
6. 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)

7. 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)
8. 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.
9. R. Geetha and S. Geetha, "Multi-Layered 'Odd-Even' Reversible Data Hiding", 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.
10. P. Punithavathi and S. Geetha, "Gaussian Random Projection based Linear Discriminant Analysis for Cancelable Biometric Recognition", 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.
11. Vaishnavi Nath Dornadula, S. Geetha, "Credit Card Fraud Detection using Machine Learning Algorithms", in Proceedings of the 2nd International Conference on Recent Trends in Advanced Computing, ICRTAC-CPS 2019, Elsevier Procedia, Vol. 165, pp. 631-641, organized by VIT, Chennai Campus, India, 11-12, November 2019.
12. Rajesh Kumar, Geetha S., "Malware Detection Modeling System", in Proceedings of the 1st IEEE International Conference on Recent Trends in Advanced Computing, ICRTAC-CPS 2018, organized by VIT, Chennai Campus, India, 10-11, September 2018.
13. 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

14. 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%)
15. 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
16. P. Punithavathi, S.Geetha, "Dynamic Sectored 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.
17. 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.
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21. 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)

22. 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.
23. S.Sirin Seema, M.Maheswari, S.Selvakumar, S.Geetha, "Reckoning Trust in E-Commerce 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.
24. 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.
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26. 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.