

Dr.Mahalingam College of Engineering and Technology, Pollachi-642 003

Department of Information Technology

Papers Published in International Journals by Faculty Members

- 1) Vijaykumar V.R., Elango S., Raja Sekar S., Ramakrishnan S., “Implementation of $2^n - 2^k - 1$ Modulo Adder Based RFID Mutual Authentication Protocol”, IEEE Transactions on Industrial Electronics, A Publication of **IEEE Industrial Electronics Society**, Vol.65, No.1, pp.no. 626 – 635, ISSN. 0278-0046, (DOI: 10.1109/TIE.2017.2711864), January 2018.
- 2) S.Ramakrishnan and S.Selvan, “SVD Based Modeling for Image Texture Classification Using Wavelet Transformation”, IEEE Transactions on Image Processing, A Publication of **IEEE Signal Processing Society**, Vol.16, No.11, pp.2688-2696, November 2007.
- 3) Shervan Fekri-Ershad and Ramakrishnan S., ‘Cervical cancer diagnosis based on modified uniform local ternary patterns and feed forward multilayer network optimized by genetic algorithm’, Computers in Biology and Medicine- **Elsevier**, <https://doi.org/10.1016/j.combiomed.2022.105392> , Vol.144, March 2022.
- 4) Meenachi L., and Ramakrishnan S., ‘Metaheuristic Search based Feature Selection Methods for Classification of Cancer’, Pattern Recognition-**Elsevier**, Vol. 119, DOI: <https://doi.org/10.1016/j.patcog.2021.108079>, June 2021.
- 5) Nithya S., and Ramakrishnan S., ‘Wavelet domain directional binary pattern using majority principle for texture classification’, Physica A: Statistical Mechanics and its Applications- **Elsevier**, (DOI:10.1016/j.physa.2019.123575), November 2019.
- 6) R.Menaha., and Jayanthi., ‘A hybrid model for finding abbreviation–definition pairs from biomedical abstracts using heuristics-based sequence labeling and perceptron linear classifier’, Expert Systems with Applications- **Elsevier**, (DOI: <https://doi.org/10.1016/j.eswa.2020.114049>), September 2020.
- 7) C.Arunkumar and S.Ramakrishnan, “Attribute Selection using fuzzy roughset based customized similarity measure for lung cancer microarray gene expression data”, Future Computing and Informatics Journal- **Elsevier**, Vol. 03, No. 1, pp.131-142, February 2018.
- 8) Meenachi L., and Ramakrishnan S., ‘Random Global and Local Optimal Search Algorithm Based Subset Generation for Diagnosis of Cancer’, Current Medical Imaging, **Bentham Science**, (DOI: 10.2174/1573405614666180720152838), Vol.16, No.3, pp.249-261, March 2020.
- 9) Aarti Amod Agarkar, Md. Zair Hussain, J. Thimmia Raja, Anandakumar Haldorai, S. Selvakanmani and M. Thangamani, “Analysis of taskable mobile IoT sensing systems for

coverage and throughput”, **Springer**-International Journal of System Assurance Engineering and Management, DOI: <https://doi.org/10.1007/s13198-023-01872-w> , February 2023. Indexing: Scopus.

- 10) Sathiyamurthi P., and Ramakrishnan S., ‘Speech Encryption Using Hybrid-Hyper Chaotic System and Binary Masking Technique’, Multimedia Tools and Applications- **Springer**, <https://doi.org/10.1007/s11042-021-11757-4>, Vol.81, pp: 6331-6349, January 2022.
- 11) S.Suganyadevi, V.Seethalakshmi and K.Balasamy, ‘A Review on deep learning in medical image analysis’, International Journal of Multimedia Information Retrieval- **Springer**, <https://doi.org/10.1007/s13735-021-00218-1>, September 2021.
- 12) K.Balasamy, N.Krishnaraj and K.Vijayalakshmi, ‘An Adaptive Neuro-Fuzzy Based Region Selection and Authenticating Medical Image through Watermarking for Secure Communication’, Wireless Personal Communications- **Springer**, ISSN: 0929-6212, <https://doi.org/10.1007/s11277-021-09031-9>, September 2021.
- 13) Meenachi L., and Ramakrishnan S., ‘Differential Evolution and ACO based Global Optimal Feature Selection with Fuzzy Rough Set for Cancer Data Classification’, International Journal of Soft Computing- **Springer**, (DOI: <https://doi.org/10.1007/s00500-020-05070-9>), Vol.24, No.24, pp:18463-18475, December 2020.
- 14) Ramprasath J and Seethalakshmi V., ‘Improved Network Monitoring Using Software-Defined Networking for DDoS Detection and Mitigation Evaluation’, Wireless Personal Communications- **Springer**, Vol.116, No.3, pp.2743- 2757, January 2021.
- 15) Balasamy K and Suganyadevi S., ‘A fuzzy based ROI selection for encryption and watermarking in medical image using DWT and SVD’, Multimedia Tools and Applications- **Springer**, (DOI: <https://doi.org/10.1007/s11042-020-09981-5>), October 2020.
- 16) Nithya S., and Ramakrishnan S., ‘Wavelet domain majority coupled binary pattern: a new descriptor for texture classification’, Pattern Analysis and Applications- **Springer**, (DOI: [10.1007/s10044-020-00907-3](https://doi.org/10.1007/s10044-020-00907-3)), September 2020.
- 17) Sathiyamurthi P., and Ramakrishnan S., ‘Speech encryption algorithm using FFT and 3D-Lorenz–logistic chaotic map’, Multimedia Tools and Applications- **Springer**, (DOI: [10.1007/s11042-020-08729-5](https://doi.org/10.1007/s11042-020-08729-5)), Vol.2020, No.79, pp.17817-17835, February 2020.
- 18) Ramakrishnan S., and Muthanantha Murugavel AS., ‘Epileptic seizure detection using fuzzy-rules-based sub-band specific features and layered multi-class SVM’, International Journal of Pattern Analysis and Applications - **Springer**, Vol.22, No.3, pp.1161-1176, August 2019.

- 19) Gopalakrishnan T., and Ramakrishnan S., 'Image Encryption using Hyper-Chaotic Map for Permutation and Diffusion by Multiple Hyper-Chaotic Maps', *Wireless Personal Communications- Springer*, (<https://doi.org/10.1007/s11277-019-06573-x>), Online First, 24 May 2019.
- 20) N. Krishnaraj., S. Smys., 'A Multihoming ACO-MDV Routing for Maximum Power Efficiency in an IoT Environment', *Wireless Personal Communications- Springer*, (<https://doi.org/10.1007/s11277-019-06562-0>), Online First, 15 May 2019.
- 21) Ramakrishnan S., and Nithya S. 'Local Line Directional Neighborhood Pattern for Texture Classification', *EURASIP Journal on Image and Video Processing- Springer*, (DOI: 10.1186/s13640-018-0347-x), Vol.2018, No.125, pp.1-16, November 2018.
- 22) Arunkumar Chinnaswamy, Ramakrishnan Srinivasan, Sooraj M.Poolakkaparambil, "Rough Set Based Variable Tolerance Attribute Selection on High-Dimensional Microarray Imbalanced Data", *Data Enabled Discovery and Applications- Springer*, <https://doi.org/10.1007/s41688-018-0019-0>, May 2018.
- 23) S.Ramakrishnan, A.S.Muthanantha Murugavel, "Epileptic seizure detection using fuzzy-rules-based sub-band specific features and layered multi-class SVM", *Pattern Analysis and Applications- Springer*, <https://doi.org/10.1007/s10044-018-0691-6>, March 2018.
- 24) S. Ponni@Sathya., Ramakrishnan S., "Fibonacci Based Key Frame Selection and Scrambling for Video Watermarking in DWT-SVD Domain" *Wireless Personal Communication -Springer*, ISSN: 0929-6212 (Print) 1572-834X (Online) DOI.org/10.1007/s11277-018-5252-1(Early Publication), January 2018.
- 25) Sathiyamurthi P., Ramakrishnan S., "Speech encryption using chaotic shift keying for secured speech communication", *EURASIP Journal on Audio, Speech, and Music Processing- Springer*, ISSN: 1687-4722 (DOI 10.1186/s13636-017-0118-0), September 2017.
- 26) S.Ramakrishnan and S.Devaraju, "Attack's Feature Selection-Based Network Intrusion Detection System Using Fuzzy Control Language", *International Journal of Fuzzy Systems, Springer*, ISSN 1562-2479, Vol. 19, No. 2, pp.316-328, (DOI: 10.1007/s40815-016-0160-6), April 2017.
- 27) A.S.Muthanantha Murugavel and S.Ramakrishnan, "Hierarchical multi-class SVM with ELM kernel for epileptic EEG signal classification", *International Journal of Medical & Biological Engineering & Computing, Springer*, (DOI: 10.1007/s11517-015-1351-2), Vol.54, No.1, pp.149-161, January 2016.

- 28) S.Ramakrishnan and IbrahiemM.M.ElEmary, “Speech Emotion Recognition Approaches in Human Computer Interaction”, Telecommunication Systems, **Springer**, Vol.52, No.3, pp.1467-1478, (DOI 10.1007/s11235-011-9624-z), March 2013.
- 29) S.Ramakrishnan, and IbrahiemM.M.ElEmary, “Classification Brain MR Images through a Fuzzy Multiwavelets Based GMM and Probabilistic Neural Networks”, Telecommunication Systems, **Springer**, Vol.46, No.3, pp.245-252, March 2011.
- 30) S.Ramakrishnan and IbrahiemM.M.ElEmary, “Comparative Study between Traditional and Modified Probabilistic Neural Networks”, Telecommunication Systems, **Springer**, Vol.40, No.1-2, pp.67-74, February 2009.
- 31) S.Ramakrishnan and S.Selvan, “Multiwavelet Domain Singular Value Features for Image Texture Classification”, Journal of Zhejiang University SCIENCE –A, **Springer**, Vol. 8, No. 4, pp.538-549, April 2007.
- 32) A. Meenakshi, A. P. Janani, S. Devi Mahalakshmi and S. Vanitha Sivagami, “A novel image recognition using Fuzzy C-Means and content-based fabric image retrieval”, Taylor & Francis-The Imaging Science Journal, Vol. 71, No. 5, pp.395–407, DOI: <https://doi.org/10.1080/13682199.2023.2183316> , ISSN: 1368-2199, March 2023.
- 33) Ramprasath J., and Seethalakshmi V., ‘Secure access of resources in software-defined networks using dynamic access control list’, International Journal of Communication Systems-**Wiley**, Vol.34, No.1, pp.1- 12, November 2020.
- 34) Ms.R.Menaha and Dr.V.E.Jayanthi., ‘Mining the web to discover acronym definitions based on sequence labeling and iterative query expansion model’, Journal of concurrency and computation: Practice and Experince- **Wiley**, DOI: <https://doi.org/10.1002/cpe.6291>, March 2021.
- 35) S.Ramakrishnan and S.Selvan, “Image Texture Classification Using Wavelet Based Curve Fitting and Probabilistic Neural Network”, International Journal of Imaging Systems and Technology, A Publication of **Wiley** InderScience, Vol.17, No.4, pp. 266 – 275, December 2007.
- 36) U Venkatesh kumar., and S.Ramakrishnan., ‘Detection of spectrum hole from n-number of primary users using machine learning algorithms’, The Journal of Engineering- **IET**, (DOI: 10.1049/joe.2019.0024), Vol.2020, No.5,pp.175-188, May 2020.
- 37) Ponni alias Sathya S., and Ramakrishnan S., ‘Non-redundant frame identification and keyframe selection in DWT-PCA domain for authentication of Video’, Image Processing- **IET**, (DOI:10.1049/iet-ipr.2019.0341), Vol.14, No.2, pp.366-375, February 2020.

- 38) Arunkumar C., Ramakrishnan S., ‘Prediction of Cancer using Customized Fuzzy Rough Machine Learning Approaches’, IET Healthcare Technology Letters- **IET**, (DOI: 10.1049/htl.2018.5055), e-First, October 2018.
- 39) Ramakrishnan S., and Nithya S, ‘Two Improved Extension of Local Binary Pattern Descriptors using Wavelet Transform for Texture Classification’, IET Image Processing Journal-**IET**, (DOI: 10.1049/iet-ipr.2018.5410), Vol. 02, No.11, pp. 2002- 2010, July 2018.
- 40) Meenachi L, Ramakrishnan S, “Evolutionary sequential genetic search technique based cancer classification using fuzzy rough nearest neighbor classifier”, Healthcare Technology Letters-**IET**, Vol.5, No.4, pp.no. 130-135, 24 July 2018.
- 41) A. Meenakshi, A. P. Janani, S. Devi Mahalakshmi and S. Vanitha Sivagami, “A novel image recognition using Fuzzy C-Means and content-based fabric image retrieval”, Taylor & Francis- The Imaging Science Journal, Vol. 71, No. 5, pp.395–407, DOI: <https://doi.org/10.1080/13682199.2023.2183316> , ISSN: 1368-2199, March 2023.
- 42) S. V. Evangelin Sonia, R. Nedunchezian, S. Ramakrishnan & K. E.Kannammal, “An empirical evaluation of benchmark machine learning classifiers for risk prediction of cardiovascular disease in diabetic males”, International Journal of Healthcare Management, Taylor & Francis, **CRC Press**, DOI: <https://doi.org/10.1080/20479700.2023.2170006> , January 2023.
- 43) J. Ramprasath, N. Krishnaraj, V. Seethalakshmi, APS, "Mitigation Services on SDN for Distributed Denial of Service and Denial of Service Attacks using Machine Learning Techniques", IETE Journal of Research, Taylor & Francis, **CRC Press**, DOI: <https://doi.org/10.1080/03772063.2022.2142163>, November 2022.
- 44) K. Balasamy and D. Shamia., ‘Feature Extraction-based Medical Image Watermarking Using Fuzzy-based Median Filter’, IETE Journal of Research, Taylor & Francis, **CRC Press**, DOI: 10.1080/03772063.2021.1893231, March 2021.
- 45) Ramakrishnan S., and Ponni alias Sathya S., ‘Video Copyright Protection Using Chaotic Maps and Singular Value Decomposition in Wavelet Domain’, IETE Journal of Research, Taylor & Francis, **CRC Press**, (DOI: 10.1080/03772063.2018.1496801), Vol.66, No.3, pp.290- 302, 7 June 2020.
- 46) T.Gopalakrishnan and S.Ramakrishnan, “Chaotic Image Encryption with Hash Keying as Key Generator”, IETE Journal of Research, Taylor & Francis, **CRC Press**, ISSN: 0377-2063, (DOI:10.1080/03772063.2016.1251855), Page No. 172-187, April 2017.

- 47) S.Devaraju and S.Ramakrishnan, "Detection of Attacks for IDS using Association Rule Mining Algorithm", IETE Journal of Research, Published by Taylor & Francis, **CRC Press**, (DOI:10.1080/03772063.2015.1034197), Vol.61, No.6, pp. 624-633, November 2015.
- 48) G. PRIYA VARSHINI, K. ANITHA KUMARI, "Enhancing software effort prediction using convolutional neural networks with dynamic feature selection: unravelling the impact of environmental factors", Journal of Environmental Protection and Ecology , **Scibulcom**, Vol. 24, Issue No 4, 1390–1400 (2023).
- 49) S.K.Ashok, S.Ponni alais Sathya, "A fuzzy model to predict the mechanical characteristics of friction stir welded joints of aluminum alloy AA2014-T6", **Cambridge University Press - The Aeronautical Journal**, DOI: <https://doi.org/10.1017/aer.2022.90>, December 2022.
- 50) Priya Varshini A G, Anitha Kumari K and Vijayakumar Varadarajan, 'Estimating Software Development Efforts Using a Random Forest-Based Stacked Ensemble Approach', **MDPI Electronics**, Vol.10, No.10, DOI: <https://doi.org/10.3390/electronics10101195>, May 2021.
- 51) Venkateshkumar U., and Ramakrishnan S., 'Detection of spectrum hole from n-number of primary users using Gencluster algorithm', Intelligent Automation and Soft Computing- **TSI Press**, (DOI: 10.32604/iasc.2020.010116), Vol.26, No.4, pp.817- 830, October 2020.
- 52) Sathiyamurthi P., and Ramakrishnan S., 'Testing and Analysis of Chen Chaotic Mapping for Speech Cryptography," Journal of Testing and Evaluation- **American Society for Testing Materials**, Vol. 47, No. 4, pp. 3028-3040, July 2019.
- 53) A.B.Arockia Christopher., and A. B. A. Anderson., 'Analysis of flight delays in aviation system using different classification algorithms and feature selection methods', The Aeronautical Journal- **Cambridge University Press**, Vol. 123, No. 1267, pp.1415-1436, September 2019.
- 54) S.Ramakrishnan and S.Selvan, "Image Texture Classification Using Wavelet Packet Transform and Probabilistic Neural Network", Intelligent Data Analysis - An International Journal, A Publication of **IOS Press**, Vol. 11, No.6, pp. 691- 705, December 2007.
- 55) S.Devimeena and D. Venkatesh, "Design and Implementation of a Beam Forming Network for a Phased Array Antenna", Defence Science Journal-**DRDO**, Volume 65, Number 1, Page No.46-52, DOI:10.14429/dsj.65. 6940, February 2015.
- 56) IbrahiemM.M.ElEmary and S.Ramakrishnan, "A Critical Review of Statistical Modeling of Digital Images", IAENG International Journal of Computer Science Published by **International Association of Engineers Hong Kong**, Vol.37, Issue.01, pp.99-109, March 2010.
- 57) S.Ramakrishnan and S.Selvan, "Multiwavelet Based Modeling for Image Texture Classification", AMSE Periodicals- (Advances in Modelling- Series B: Signal Processing and

- Pattern Recognition), A Publication of **Association for the Advancement of Modelling and Simulation Techniques in Enterprises**, Vol.50 , Issue 04, pp. 64-79, September 2007.
- 58) S.Ramakrishnan and S.Selvan, “Wavelet Based Modeling of Singular Values for Image Texture Classification”, International Journal of Machine GRAPHICS &VISION, A Publication of **Institute of Computer Science of the Polish Academy of Sciences**, Vol. 15, No. 2, pp.211-225, June 2007.
- 59) S.Ramakrishnan and S.Selvan, “Wavelet Transform Based Impulsive Noise Removal: A Smart Non-Linear Filtering Approach”, Proc. of SPIE, Smart Materials, Structures, and Systems, A Publication of **International Society of Optical Engineering**, Vol. 5062, pp.517-523, Oct 2003.
- 60) Mrs.L. D. Sujithra Devi, Mrs. A. Praveena, Mrs. B.Reena, Mrs. G.Anandhi and Mrs. M.Sowmya., ‘Mobile Ad-hoc Networks: A Survey on multipath routing protocols’, Journal of University of Shanghai for Science and Technology, Vol. 24,No.1,pp.244-252, January 2022.
- 61) Dr.S.Ponni alias sathya, Dr.S.Ramakrishnan and Dr.S.Nithya, ‘A Guide tour on security techniques for multimedia data’, Journal of Education: Rabindrabharati University, Vol: 23, No.12, October 2021.
- 62) A.B.Arockia Christopher, M.Balakrishnan, A.S.Muthanantha Murugavel and J.Ramprasath, ‘Biological system Administrations for Compelling Utilize of Information Driven Modeling’, Journal of Education: Rabindrabharati University, Vol:23, No.12, October 2021.
- 63) M.Balakrishnan, A.B.Arockia Christopher, A.S.Muthanantha Murugavel and J.Ramprasath, ‘Prediction of data analysis using machine learning Techniques’, International Journal of Aquatic Science, Vol.12, No.03, PP: 2755 – 2762, September 2021.
- 64) Shunmughavel V., and Arockia Christopher A B., ‘A survey on the Rise of Social BOT detection techniques and Research Challenges’, Mukta Shabd Journal, Vol.9, No.12, pp.159- 164, December 2020.
- 65) Priyavarshini A G, Anitha kumari K, ‘Predictive analytics approaches for software effort estimation: A review’, Indian Journal of Science and Technology, Vol.13, No.21, pp.2094- 2103, June 2020.
- 66) Sathish Kumar G, Ramya R, Dinesh P S, Prabha Devi D and Janani A P, ‘Data Analytics for Web Structure Mining in Business Website’, International Journal of Scientific & Technology Research, Vol.1, No.1, pp.366-368, February 2020.
- 67) Balakrishnan M., Arockia Christopher A.B., and Dr.Vellingiri J ‘Different applications of IoT based Smart Monitoring Devices for Agriculture’, International journal of Advanced Technology in Engineering and Science, Vol.7, Issue.12, Page.1-7 December 2019.

- 68) Dr.J.Vellingiri, Balakrishnan M., and Arockia Christopher A.B., 'Performance assessment of feature extraction and classification algorithm using opinion mining', International Journal of Advanced Science and Technology, Vol.28, No.11, pp.440-453, October 2019.
- 69) A.B.Arockia Christopher, M.Balakrishnan, A.P.Janani, "An Effective different data mining algorithms for Prediction of warning level in Aircraft Accident Dataset", International Journal of Advance Research in Science and Engineering, Vol. 06, No. 11, pp.141-150, ISSN.No.2319-8354, November 2017.
- 70) Mohammad J. Arif, Ramakrishnan S, Ibrahiem M. M. El Emary,Hassan A. Alsuraihi and Muthanantha Murugavel A S, "Classification of Epileptic EEG Signals using Wavelet-EMD-Domain Features and Improved Multi-class SVM", Journal of Engineering Technology, Vol. 6, pp.no. 423-440, ISSN 0747-9964, Special Issue on Technology Innovations and Applications, October 2017.
- 71) M.Balakrishnan, A.B.Arockia Christopher, "An Effective E-Learning Services using Different Web Service Component Interface", International Journal of Advance Research in Science and Engineering, Vol. 06, No. 10, pp.1078-1088, ISSN.No.2319-8354, October 2017.
- 72) S.Ramakrishnan and S.Ponni@Sathya, "Survey of Digital Video Watermarking Techniques and Its Applications" Engineering Science, Volume 1, No. 1, Page No.22-27, DOI: 10.11648/j.es.20160101.14. January 2017.
- 73) S.Ramakrishnan and Mr.C.Arunkumar, "A comparative study of hybrid feature selection methods using correlation coefficient for microarray data", Journal of Network and Innovative Computing, Dynamic Publishers, Inc., USA, ISSN 2160-2174, Volume 4 , Page No. 164-174, May 2016.
- 74) C.Arunkumar and S.Ramakrishnan, "Modified Fuzzy Rough Quick Reduct Algorithm for feature selection in microarray cancer data", Asian Journal of Information Technology, Medwell Journals, Volume - 15, Issue - 2, Page No. 199-210, DOI: 10.3923/ajit.2016.199.210, April 2016.
- 75) T.Gopalakrishnan and S.Ramakrishnan, "Image Encryption in Block-Wise with Multiple Chaotic Maps for Permutation and Diffusion", ICTACT Journal on Image and Video Processing, Vol.6, No.3, pp. 1220-1227, Feb 2016.
- 76) R.Menaha and V.E. Jayanthi, "Improving Query Expansion of Acronyms in Web Search Engine Using Words Meaning" International Open journal for Engineering Research, Vol.1, Issue: 4, Page No. 176-181, April 2015.

- 77) S.Devaraju and S.Ramakrishnan, "Performance Comparison For Intrusion Detection System Using Neural Network With KDD Dataset", ICTACT Journal on Soft Computing, Vol.4, No.3, pp. 743-752, April 2014.
- 78) P. Ramprakash, M. Sakthivadivel, N. Krishnaraj, J. Ramprasath, "Host-based Intrusion Detection System using Sequence of System Calls", International Journal of Engineering and Management Research, Volume-4, Issue-2, ISSN No.: 2250-0758, Page No. 241-247, April 2014.
- 79) S.Devaraju and S.Ramakrishnan, "Performance Comparison of Intrusion Detection System Using Various Techniques – A Review", ICTACT Journal on Communication Technology, Vol.4, No.3, pp.802-812, September 2013.
- 80) R.Menaha, G.Anupriya, "Semantic Similarity Measurement between Words using Swd& Snippets", International Journal of Computer Applications (0975 – 8887), Volume 1, Number 1, Page No.31-35, June 2013.
- 81) M.Sakthivadivel, M.RathinaPriya, N.Krisnaraj, E.Prabhakar, "A Novel Artificial Intelligent System for Milk Conservation Using Wireless Sensor Networks", Bonfring International Journal of Networking Technologies and Applications, ISSN 2279-0152 , Volume - 1, Number - 1, Page No. 7-13, 2012.
- 82) S.Ramakrishnan and IbrahiemM.M.ElEmary, "Paramount Importance of Security in Wireless Sensor Networks", Science Series Data Report, Vol. 4, No. 2, pp. 20-34, February 2012.
- 83) S.Ramakrishnan, T.Gopalakrishnan and K.Balasamy, "A Wavelet Based Hybrid SVD Algorithm for Digital Image Watermarking", International Journal on Signal and Image Processing, Vol.2, No.3, pp. 157-174, (DOI : 10.5121/sipij.2011.2313), September 2011.
- 84) S.Ramakrishnan and IbrahiemM.M.ElEmary, "Estimation Techniques for Statistical Model Parameters of Digital Images", Scientific Bulletin Series: Electronics and Computer Science, Published by University of Pitesti, Vol.10, Issue.01, pp.18-24, July 2010.
- 85) IbrahiemM.M.ElEmary and S.Ramakrishnan, "On the Application of Various Probabilistic Neural Networks in Solving Different Pattern Classification Problems", World Applied Sciences Journal, A Publication of IDOSI, Vol.4, No.6, pp.772-780, December 2008.
- 86) S.Ramakrishnan and S.Selvan, "Classification of Soil Texture Based on Wavelet Domain Singular Values", International Journal of Tomography & Statistics, Indian Society for Development and Environment Research, Vol. 9, No. S08, pp.33-50, Summer 2008.
- 87) S.Ramakrishnan and S.Selvan, "Classification of Brain Tissues Using Multiwavelet Transformation and Probabilistic Neural Network", International Journal of Simulation: Systems,

Science & Technology, A publication of the United Kingdom Simulation Society, Vol.7, No.9, pp.9-25, December 2006.

- 88) S.Ramakrishnan and S.Selvan, "A New Statistical Model Based on Wavelet Domain Singular Value Decomposition for Image Texture Classification", International Journal on Graphics, Vision and Image Processing, A Publication of International Congress for Global Science and Technology, Vol.6, No.3, pp.15-22, December 2006.

Papers Published in International Journals by Faculty Members along with Students

- 89) Jeevanantham, Maria A Rexana, G.Saravana Theepiga and T.Nandhini, 'An Integrated Architecture for Security and Key Management Based on Blockchain', QUADERNS Journal, Vol.11, No.5, pp. 275-284, May 2023.
- 90) A.S.Muthanatha Murugavel, B.Manovikash and K.Kaviya, 'Alzheimer's disease detection using Bat Algorithm', International Journal of Innovative Research in Technology, Vol.9, No.2, pp.1217-1224, July 2022.
- 91) K. Saranya, M. Navaneetha, P. Pozhil Mathi and K. Janani, 'Image based Biometric Authentication for Blockchain Integrated VANETs', International Journal of Advanced Research in Science, Communication and Technology, DOI: 10.48175/IJARSCT-5827, Vol.2, No.2, pp.323-332, July 2022.
- 92) K. Saranya, R. Namitha and R.K. Roshni Anjana, 'Dynamic Performance Estimation Routing Model in VANET', International Journal of Advanced Research in Science, Communication and Technology, DOI:10.48175/IJARSCT-5826, Vol.2, No.2, pp.316-322, July 2022.
- 93) A.S.Muthanatha Murugavel, M.Hemakarhika, R.Reena Rethiga and R.Tharini, 'Distracted Driver Detection and Alert System using Deep Learning', International Journal of Innovative Research in Technology, Vol.9, No.2, pp.751-755, July 2022.
- 94) Vishnukirthik R, Manoj Kumar NR, Jayaram M and A. B. Arockia Christopher, 'DeepPill: Web Framework for Automatic Pill Recognition and Recommendation System using Deep Learning Techniques', International Journal of Advanced Research in Science, Communication and Technology, DOI 10.48175/568, Vol.2, No.1, pp.548-555, July 2022.
- 95) P. Rajeswari, J. Ben Darius, I. ImranKhan and V.Paranjothi, 'Detecting Wireless Steganography with Wavelet Analysis', International Journal of Advances in Engineering and Management, Vol. 4, No.6, pp. 1488-1493, June 2022.
- 96) Danush vikram R, K.S.Sudhishna, N.Gokulswaruban and Lingeshranj M, 'AI to Detect Social Media Users' Depression Polarity Score and Diagnose using Auto Curative Therapy',

International Journal of Innovative Research In Technology, Vol.8, No.12, pp.1646-1649, May 2022.

- 97) Nandhakumar C, Shanthosh N, Kumaresan M and Prasanth M, 'Fake Opinions on Online Products Detection using Random Forest Classifier', International Journal for Science and advanced Research in Technology, DOI: 10.48175/IJARST-5661, Vol.2, No.1, pp.167-170, May 2022.
- 98) Swathi B, Athira P, Monicka M and Sathiyamurthi P, 'Health chain security using Blockchain Technology', International Journal for Science and advanced Research in Technology, Vol.8, No.5, pp.1230-1234, May 2022.
- 99) Dr.P.Sathiyamurthi, Mownesh S S, Suriyavardhan G and Nagaraja S, 'Speech Encryption using Rossler Attractor and Gingerbread Man Chaotic Maps', Journal of Chengdu University, Vol.26, No.8, ISSN No. 1671-9727, August 2021.
- 100) E Pravin, S. Navaneethan, K. Karthick Raja and S. Ponni @ Sathya, 'Audio Steganography', International Journal of Research in Engineering, Science and Management, Vol.4, No.5, pp.91-95, May 2021.
- 101) B. Giri Prasath, N. Kishore Kumar, M. Praveen and A.P.Janani, 'Intelligent Customer Chatbot', International Journal of Research in Engineering, Science and Management, Vol.4, No.5, pp.129-133, May 2021.
- 102) P.Sathiyamurthi, Abinaya S, Nivedha S and Kirubha P, 'Electronic Electoral system using Blockchain Technology', International Journal of Research in Engineering, Science and Management, Vol.4, No.5, pp.379-383, May 2021
- 103) Kowsalya K, Bala Soundharya S, Thejasri J and Dr.S.Nithya, 'A New Combined Angular, Radial and Diagonal Difference Binary Pattern for Texture Classification', International Journal of Research in Engineering, Science and Management, Vol.4, No.5, pp.89-93, May 2021.
- 104) Dr.A.S.Muthanatha Murugavel, Jeevitha P, Rajana R and Danushree R M, 'Credit Card Fraud Detection Using Machine Learning Algorithms', International Journal of Research in Engineering, Science and Management, Vol.4, No.5, pp.80-84, May 2021
- 105) Jayasri P, Atchaya A, Sanfeeya Parveen M and Ramprasath J., 'Intrusion Detection System in Software Defined Networks using Machine Learning Approach', International Journal of Advanced Engineering Research and Science, Vol.8, No.4, pp.135-142, April 2021.
- 106) Sathiyamurthi P, Mohamed Jassim.M and Suman.M., 'A Novel Approach for Speech Encryption using Lorentz and Tent Chaotic map', South Asian Journal of Evaluation in Practice- Sambodhi, Vol.43, No.3, pp.249- 256, January 2021.

- 107) P.Sathiyamurthi, T.Thirisith, J.Kamaleshwaran and K.Tamil selvan, 'Chaotic Random Number Generation using Gauss and Standard Chaotic Maps for Secured Audio and Speech Communication', International Journal of Advanced Science and Technology, Vol.29, No.10, pp. 8144-8152, June 2020.
- 108) Ramprasath J, Ponmanikandan V, Rakunanthan K S, Santhosh Kumar M 'An ecosystem for vulnerable traffic analysis and mitigation services in software defined networking', International research Journal of Engineering and Technology, Vol.7, No.6, June 2020.
- 109) Balakrishnan M, Preethi V, Bhuvaneshwari M and Gayathri P., 'Three time password authentication in cloud environment', International Journal of Information and Computational Science, Vol.10, No.5, May 2020.
- 110) Nantha kumar C.V, Vigneshwar S J, Nireesh S and Dr.A.B.Arockia Christopher., 'Effective use of data driven modeling in ecosystem services using machine learning', International Journal of Research in Engineering , Science and Management, Vol.3, No.5, pp.265-270, May 2020.
- 111) Tamil Kanmani K, Nithyashri S, Piruthika M and Ms.R.Menaha., 'Web based acronym expansion disambiguation using word2vec and doc2vec modelling' , International Journal of Research in Engineering , Science and Management, Vol.3, No.5, May 2020.
- 112) S.Ramakrishnan,M.Sasipriya, R.Saranya, M.Priyanka, "Block Image Encryption Using Wavelet", International Research Journal of Engineering and Technology (IRJET), Volume 4,Issue 1,Page No.1156-1159,e-ISSN: 2395 -0056, p-ISSN: 2395-0072, January 2017.
- 113) S.Ramakrishnan, R.RagaRakshitha, V.Gayathiri, P.Kalaiyarasi," Neural Network Based Image Encryption AndAuthentication Using Chaotic Maps", International Journal of Current Trends in Engineering & Research (IJCTER) Volume 3,Issue 1,Page No.29-37,e-ISSN 2455–1392, January 2017.
- 114) A.S.Muthanantha Murugavel, M.Karthikaiselvi, S.Swetha, S.DivyaPrabha,"Detection of Epileptic Seizure Signals Using FuzzyRules Based On Selected Features", International Journal of Current Trends in Engineering & Research (IJCTER), Volume 3,Issue 1,Page No.22-28, e-ISSN 2455–1392, January 2017.
- 115) S.Nithya, N. Madhuvarshini, V. Nivetha, E. Indira," Iris Recognition Using Modified Local Line Directional Pattern", International Journal of Computer Applications Technology and Research, Volume 6, Issue 1,Page No.56-60, ISSN:-2319–8656, January 2017.
- 116) R.Menaha, R.Dhanaranjani, T.Rajalakshmi, R.Yogarubini, "Student Feedback Mining System Using Sentiment Analysis", International Journal of Computer Applications Technology and ResearchVolume 6,Issue 1,Page No.51-55, ISSN:-2319–8656, January 2017.

- 117) K.Balasamy, S.Priyanka, N.Kavya and A.AbinayaShruthi, "Robust image watermarking using SVD and Differential Evolution in DWT Domain", International Research Journal of Engineering and Technology (IRJET), Volume 4, Issue 1, Page No.1071-1074, e-ISSN: 2395 -0056, p-ISSN: 2395-0072, January 2017.
- 118) K.Balasamy, C.V.Swarnalakshmi and M.Arthisri, "Prevention of Geometric Attacks using Image watermarking Technique", International Journal of Applied Science & Engineering Technology, Volume 5, Issue 1, Page No.521-527, January 2017.
- 119) E.Prabhakar, R.Parkavi, N.Sandhiya, M.Ambika, "Public Opinion Mining For Government Scheme Advertisement", International Journal of Information Research and Review, Volume: 03, Issue: 04, Page No.2112-2114, April 2016.
- 120) P.Sathiyamurthi, T.SasiPrabha, K.R.Vani Sri, V.Vanitha, S.Vinitha, "Speech Encryption Based On Multi Stage Permutation Using Multiple Chaotic System", International Journal of Computing and Technology Volme:03, Issue:03, ISSN: 2348-6090, Page No.137-141, March 2016.
- 121) R.Menaha, M.Barkavi, P.GuhaPrashanthini, R.Narmadha, "A web based approach: Acronym Definition Extraction", International Research Journal of Engineering and Technology (IRJET), Volume: 03, Issue: 21, e-ISSN: 2395 -0056, p-ISSN: 2395-0072, Page No.1199-1206, February 2016.
- 122) P.Sathiyamurthi, S.Ramakrishnan, S.Sharmila, B.Sandhiya, "A Survey on Complex Secret Key Generation Method Based on Manifold Chaotic Mapping Scheme for Speech Encryption", International Journal of Innovative Research in Computer and Communication Engineering, ISSN (Online): 2320-9801, ISSN (Print): 2320-9798, Volume - 4, Issue - 2, Page No.1136-1139, February 2016.
- 123) P.Ramprakash, S.Saravanakumar, M.Veeraprakash, S.VivinPrasanth, M.YasirAsarudheen, "Customized Learning Path Using Moodle", International Journal For Technological Research In Engineering, ISSN (Online): 2347 – 4718, Volume - 3, Issue - 6, Page No. 1084-1087, February 2016.
- 124) A.S.Muthanantha Murugavel, D. Akshaya, S.Anitha, M.Manjureka, T.Mohanapriya, "Multiclass Support Vector Machine with New Kernel for EEG Classification", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395 -0056, Volume – 3, Issue – 1, Page No.1192-1197, January 2016.
- 125) N.Nandhini, S.Poongothai, M.Priya, R.Priyadharsini, N.Premalatha, "Analyzing the Effect of Preprocessing in Class Imbalanced Data", International Journal of Novel Research in Computer

Science and Software Engineering- Novelty Journals, ISSN 2394-7314, Volume - 3, Issue - 1, Page No. 27-33, January-April 2016.

- 126) E.Prabhakar, G.Pavithra, R.Sangeetha, G.Revathy, "Mining Better Advertisement Tool For Government Schemes", International Journal For Technological Research In Engineering, ISSN (Online): 2347 – 4718, Volume - 3, Issue - 5, Page No.1023-1026, January 2016.
- 127) K.Saranya, AG.Shanmathi, N.Suchitra, S.Ramakrishnan, "Symmetric Encryption Scheme Using Logistic Map", International Journal of Computer Science Trends and Technology (IJCST), ISSN: 2347-8578, Volume – 4, Issue - 1, Page No.23-28, January - February 2016.
- 128) J. Ramprasath, S. Ramakrishnan, P. SaravanaPerumal, M. Sivaprakasam, Vishnuraj, U. Manokaran, "Secure Network Implementation using VLAN and ACL", International Journal of Advanced Engineering Research and Science (IJAERS), ISSN: 2349-6495 , Volume - 3, Issue - 1 , Page No.47-50, January 2016.
- 129) J.Dhyaneswaran, R.Priyanka, M.ShanmugaPriya, K.Shriharini, J.Vaishali, "Enhancement of Image Retrieval using Color and Shape Features," International Journal of Engineering Trends and Technology (IJETT), ISSN: 2231-5381, Volume - 31, Number – 4, Page No.223-227, January 2016.
- 130) L.Meenachi, S.Ramakrishnan, M.Arunithi, R.Karthiga, S.Karthika, " Diagnosis of Cancer using Fuzzy Rough Set Theory", International Research Journal of Engineering And Technology (IRJET), e-ISSN: 2395 -0056, Volume – 3, Issue – 1, Page No.1203-1208, January 2016.
- 131) L. Meenachi, S. Ramakrishnan, R. Nivetha, R. Pavithra, S. Vasuki, S. VeenaPriyaDarsini, "Feature Selection for Cancer Classification using Relative Decision Entropy", International Journal of Advanced Engineering Research and Science (IJAERS), ISSN: 2349-6495, Volume - 3, Issue - 1, Page No.8-11, January 2016.
- 132) N.Krishnaraj, B. GokulaPriya, M.Priyanka, P.Kiruthika, "Participation of Bluetooth LE Machines into IoT World", International Journal of Electrical and Electronics Research, ISSN 2348-6988 (Online), Volume - 4, Issue - 1, Page No.17-20, January - March 2016.
- 133) T.Sumathi, B.Gayathri, K.GowthamaPriya, C. Kokilavani, "Consistent Access of Internet in Vehicular Networks", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395 -0056, Volume – 3, Issue – 1, Page No.1305-1309, January 2016.
- 134) K.Balasamy, M.DivyaDharshini, S.Gayathri, M.MownaGeetha, "Image Authentication System Using Fused Watermarking Technique", International Journal of Innovative Research in Computer and Communication Engineering, ISSN (Online): 2320-9801, ISSN (Print): 2320-9798, Volume - 4, Issue - 1, Page No.189-193, January 2016.

- 135) Lesa Ann Thomas, S.Ponni @ Sathya, S.Ramakrishnan, “Novel Video Watermarking Technique using Scene Change Detection with DWT”, International Journal of Innovations in Engineering and Technology (IJET), ISSN: 2319 – 1058, Volume 6, Issue 2, Page No. 85-91, December 2015.
- 136) S.Nithya, S. Ramakrishnan, G.Brindha, B.S.Ashwini, S.Gowthami, N.Karunambikai, “Direction and Neighbourhood Based LBP for Image Retrieval using Texture”, International Journal of Innovations in Engineering and Technology (IJET), ISSN: 2319 – 1058, Volume – 6, Issue - 2, Page No.274-281, December 2015.
- 137) M.Pavithra , N.Praseetha , P.Vaisali , N.Krishnaraj, “Minimize Energy Cost in Internet of Things Using Quadratic Algorithm”, International Journal of Novel Research in Computer Science and Software Engineering – Novelty Journals, ISSN 2394-7314, Volume - 2, Issue - 3, Page No. 58-64, September-December 2015.
- 138) S.Ponni@Sathya, S.Ramakrishnan, V.Roopa, A.Sonia, “Effective Video Watermarking Technique Using Binary Tree Structure with Feature Point Extraction”, International Journal of Engineering Trends and Technology (IJETT), ISSN: 2231-5381, Volume - 30 , Number – 7, Page No.374-378, December 2015.
- 139) K.Balasamy, G.Ishwarya, M.Mahalakshmi, “Watermarking Scheme for Image Content Authentication”, International Journal of Advances In Computer Science and Cloud Computing, ISSN: 2321-4058, Volume 3, Issue- 1, Page No. 15-19, May 2015.
- 140) S.Ramakrishnan, T.Gopalakrishnan, R.Karthiga, “A Novel Chaos Based Image Encryption in Hybrid Domain”, International Journal of Applied Engineering Research, Volume No.20, Page No.19027-32, April 2015.
- 141) M.Priya, S.Suganya, R.Ellakkiya, R.Menaha, “An Efficient Approach for Improving Query Expansion of Acronyms using Abbreviations”, International Science Press, IJCEST, 5[1], ISSN: 2229-3086, Page No. 5-9, June 2014.
- 142) A.S.Muthanantha Murugavel, S.Ramakrishnan, B.M.Dhamodharan, K.DeepakManavalan, “Multimodal System To Predict Epileptic Seizures Using Machine Learning Technique”, International Journal of Soft Computing and Artificial Intelligence, Volume 2, Issue – 1, ISSN – 2321-404X, Page No. 67-72, May 2014.
- 143) T.Gopalakrishnan, S.Ramakrishnan, M.Balakumar, “Image Encryption using Chaos and Parity Based Pixel Modification in Permutation”, Proceedings of International Journal of Computer Applications (IJCA) (0975 – 8887), Page No.30-35, May 2014.

- 144) B.Geethanjali, S.Vaishnavi, S.Nithya, S.Ramakrishnan, “Multi-tiered Approach for Content Based Image Retrieval using SVM Classifier”, International Journal of Advanced Computational Engineering and Networking, Volume – 2, Issue – 4, ISSN – 2320-2106, Page No. 73-76, April 2014.
- 145) S.Ponni@Sathya, S.Arjun, V.Magendran, “Selective Pixel Based Efficient Video Watermarking Using Dual Singular Value Decomposition In The Discrete Wavelet Transform Domain”, Research Journal of Computer Systems Engineering - RJCSE , Volume 4, Page No.720-725, ISSN: 2230-8563; e-ISSN-2230-8571, June 2013.