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Total years of experience:32,

Number of PhD completed:17,

Number of PhD students registered:4.

ANNEXURE - 1

Publications in International Journal Papers:

1. GopalaKrishnan, K., Vanathi,.P.T., S.Sridhar raja,M.Nancy,S.Seeni roja Parveene, “Image classification using deep learning algorithm”, Journal of International Pharamaceutical research, ISSN:1674-0440, April 2019,Pgno 577 to 590
2. GopalaKrishnan, K., Vanathi, Dr.P.T., An Efficient Texture Classification Algorithm using Integrated Discrete Wavelet Transform and Local Binary Pattern features, *Cognitive Systems Research* (2018),doi: <https://doi.org/10.1016/j.cogsys.2018.07.015>
3. C.M.Preethi, P.T.Vanathi, “Attribute selection using binary flower pollination algorithm with greedy crossover and ‘one to all’ initialization”, *Electronics Letters* ,The Institution of Engineering and Technology, **Volume 52, Issue 21**, 13 October 2016, p. 1757 – 1759 **DOI: 10.1049/el.2016.2324** , **Print ISSN 0013-5194, Online ISSN 1350-911X**
4. Wrapper based Feature Selection using Binary Flower Pollination Algorithm Meiyalahan Preethi*; Ponnusamy Thangapandian Vanathi**, Asian journal of research in social science and humanities, Vol. 6, No. 10, October 2016, pp. 39-51. ISSN 2249-7315 A Journal Indexed in Indian Citation Index DOI NUMBER: 10.5958/2249-7315.2016.00996.5 Category:Science and Technology
5. V Gnanaprakash, Fabric Defect Identification Using Back Propagation Neural Networks **Journal of VLSI Design and Signal Processing** ,Vol 3, No 2,3 (2017) ISSN : 0976 - 1357 (Online)0976 - 1527 (print Publisher: Springer Verlag

6. K.Gopalakrishnan, P.T.Vanathi & R.Abinaya, "Texture classification using Shearlet Transform Energy features" Journal of Communication in Computer and Information Science, ISSN 1865-093, CSI 2016, Vol. CCIS679, PP.3-13, December 2016.
7. Geetha .N, Vanathi P.T. "Cross Domain ranking with RankNet", Perspectivas em Ciencia da Informacao, v.22, sp.5, p1. , Nov./ Dec. 2017
8. K.Gopala Krishan,Dr.P.T.Vanathi,Ms.Abinaya,"Texture classification using Shearlet Transform Energy features, Journal of Communication in Computer and Information Science, Vol.No.: CCIS679, Page No.:3-13-,2016, Anneure-II listed by Annauniversity.
9. Logeshkumar S & Vanathi P.T, 'Modelling and Simulation of MEMS based sensors for Microbotics', Asian journal of research in social science and humanities, ISSN: 2249-7315. Vol. 6, No. 6, June 2016, pp. 1485-1498 (Publication in Anna University Updated List of Journals).
10. Logeshkumar S & Vanathi P.T, 'Modelling and Simulation of Low Power Polymer Micro-heater for MEMS Gas Sensor Applications', Asian journal of research in social science and humanities, ISSN: 2249-7315. Vol. 6, No. 7, July 2016, pp. 144-151 (Publication in Anna University Updated List of Journals).
11. P.T.Vanathi and D.Sugumar," EEG Signal Separation using Improved EEMD-Fast IVA Algorithm" Asian Journal of Research in Social Sciences and Humanities, , vol.7, No.3, pp.1230-1243, March, 2017.
12. Amsaveni, A & Vanathi, PT ,"Reversible Data Hiding Based on Radon and Integer Lifting Wavelet Transform", Journal of Microelectronics, Electronic Components and Materials, Vol. 47, No. 2(2017), 90 – 98.
13. Amsaveni, A & Vanathi, PT 2015, 'A comprehensive study on image steganography and steganalysis techniques', International Journal of Information and Communication Technology,vol.7,no.4/5,pp. 406-424, ISSN: 1741-8070 (**Annexure-II**). DOI: 10.1504/IJICT.2015.070300.
14. Amsaveni, A & Vanathi, PT 2015, 'An Efficient Reversible Data Hiding Approach for Color Images Based on Gaussian Weighted Prediction Error Expansion And Genetic Algorithm', International Journal of Advanced Intelligence Paradigms, vol. 7, no. 2, pp. 156-171, ISSN: 1755-0394 (**Annexure-II**).DOI: 10.1504/IJAIP.2015.070769.
15. Latha,Dr P.T.Vanathi , "Design of Digital Filters for Multi-standard Transceivers", "International Journal on Electrical Engineering and Informatics (IJEI)" Volume 7, Issue 3, September2015. ISSN: 2085-6830.SJIF=4.332.Indonesia. Indexed by: Thomson Reuters, Google Scholar,**SCL**

ANNEXURE - 2

Publications in National journals

1. M.Santhanalakshmi, Dr P.T.Vanathi ,“A low power Gm-C low pass filter for mobile Applications” Journal of Scientific and Industrial Research, Vol 69 October 2010, PP 750-755
2. M.Santhanalakshmi, Dr P.T.Vanathi , “Design of Biomedical Opamp” Journal of computer science Vol. 5, No. 1 Nov-Dec-2010, PP 63—69.
3. M.Santhanalakshmi, Dr P.T.Vanathi , “A Novel Class AB Operational Amplifier for Mobile Applications” National Journal of Technology, Vol. 7, No. 2 June 2011, PP 45-52
4. Geetha, S., Poonthalir, G. and Vanathi, P.T. “An Improved k-means algorithm for Capacitated Clustering Problem”, INFOCOMP, Journal of Computer Science, Vol. 8, No. 4, 2009.
5. Geetha, S., Poonthalir, G. and Vanathi, P.T. “A Hybrid Particle Swarm Optimization using Genetic Operators for Capacitated Vehicle Routing Problem”, Journal of Advances in Information Technology, Vol. 1, No. 4, 2010.
6. Geetha, S., Poonthalir, G. and Vanathi, P.T. “Metaheuristic algorithms for Vehicle Routing Problem with Stochastic Demands”, Journal of Computer Science, Vol. 7, No. 4, pp. 533-542, 2010. (SNIP: 0.020; SJR: 0.071)’
7. M.Sumathi, (2008) “A study on reconfiguration of wavelength routed optical networks”, Sonalesa, vol. 1(2), pp. 25-27.
8. V.R.Vijaykumar, P.T.Vanathi, and P.Kanagasabapathy, “Performance Analysis of Various Adaptive Filtering Algorithms for Noise Cancellation in Speech Signals” National Journal of Technology, No.1, Vol.1, pp 79-85, March 2005.
9. V.R.Vijaykumar, P.T.Vanathi, and P.Kanagasabapathy, “An Efficient Method for the Removal of Salt and Pepper Noise in Digital Images by Weighted Median Type Filter” National Journal of Technology, Vol 2 pp 45-52, June 2007
10. P.Ramanathan and Dr.P.T.Vanathi (December 2009), “Novel Decomposition Algorithm for Power Delay Optimization in Wallace and Carry Save Multipliers”, National Journal of Technology, Published by PSG College of Technology, Vol.5, No.4, pp. 92-100.

11. P.Ramanathan and Dr.P.T.Vanathi (January 2010), "A novel logarithmic prefix adder with minimized power delay product", Journal of Scientific and Industrial Research, NISCAIR publications, Vol.69, No.1 pp.17-20.
12. P.Ramanathan, Dr.P.T.Vanathi, S.Geetha, S.Kanimozhi and G.Sindhu Ganga (May – June 2010), Hybrid Parallel Prefix adder for High Performance Computing ", Karpagam Journal of Computer Science, Published by Karpagam University, Vol.4, No.4, pp 1684-1691.
13. A.Vasuki, K.Kavitha, P.T.Vanathi," Robust error protection using Turbo coded OFDM for JPEG2000 bit streams", National journal of technology, Vol 6, No 4, pp 82-91, December 2009. ISSN:0973-1334.
14. P.Malathi, Dr.P.T.Vanathi, "Optimized multiuser resource allocation scheme for OFDM-MIMO systems using GA & OGA" accepted for publication in the special IETE issue on Next generation networks , 2008
15. P.Malathi and D.Binu (2015), "Multi Model based Biometric Image Retrieval for Enhancing Security" Indian journal of Science and Technology, Dec-2015, Vol. 8(35).
16. M.Sumathi, Dr.P.T.Vanathi, "Reconfiguration of Virtual Topology with Constrained based Routing" National Journal of Technology, Vol.2 No:3 , September 2006.
17. R.Vidyapriya and Dr.P.T.Vanathi, "Energy Efficient Adaptive Routing for Wireless Sensor Networks" National Journal of Technology, Vol.2 No:4 , December 2006.
18. S.Hema Chitra, Dr.P.T.Vanathi, B.Maheswaran, "Real Time And Bandwidth Sharing Arbitration Algorithms For SoC Bus Communications", National Journal of Technology, ISSN-0973-1334, Volume:4, No:1, March 2008.

ANNEXURE - 3

Publications in International Conferences

1. K.Gopala Krishan,Dr.P.T.Vanathi," Texture Classification using Multiresolution Transforms" ,IEEE International Conference on Intelligent Systems and Control (ISCO 15), Karpagam College of Engineering, Coimbatore, Vol.No.: 1, Page No.:1329-1333, Date: 09/01/2015

2. K.Gopala Krishan,Dr.P.T.Vanathi,” Texture Classification By Wavelet Packet Spectrum”, International Conference on Interdisciplinary Engineering and Sustainable Management Sciences (ICIESMS 2015).
3. K.Gopala Krishan,Dr.P.T.Vanathi,”Performance Analysis of Texture Classification Techniques using Shearlet transform”,.IEEE International Conference on Wireless Communication Signal processing & Networking (WiSPNET’16), SSN College of Engineering, Chennai – 2016
4. K.Gopala Krishan,Dr.P.T.Vanathi,” An Unique Approach For texture Classification Using Dense Micro Block Difference Features”, IEEE International Conference on Innovation in Information Embedded and Communication Systems (ICIIECS). – 2017
5. K.Gopala Krishan,Dr.P.T.Vanathi ,;Texture Classification using Adaptive Equalized Shear let Transform Features” ,IEEE International Conference on Innovation in Information Embedded and Communication Systems (ICIIECS). – 2017.
6. Sreeja reddy , Vanathi P.T.“Identification of Diseases in Leaves using Machine Vision” International Conference on Electrical, Electronics,Computer Science, Management and Mechanical Engineering (ICE2CSM2E), Hyderabad, 12.02.2017
7. Amsaveni, A &Vanathi, PT 2013, ‘High Capacity Multiple Reversible Watermarking on Medical Images’, Proceedings of the International Conference on Intelligent and Efficient Electrical Systems (ICIEES’13), PSG College of Technology, Coimbatore.
8. Amsaveni, A, Vanathi, PT & Shrihari, P 2015, ‘Reversible Data hiding based on DWT and Slantlet Transform’, Proceedings of the 2nd IEEE International Conference on Knowledge Collaboration in Engineering, Kathir college of Engineering, Coimbatore.