


<h1>Faculty</h1>	<p>Dr.Shanthi.M Professor and HoD Department of Information Science and Engineering East Point College of Engineering & Technology</p>
	<p>Profile*</p> <p>Dr. Shanthi.M, Professor and HoD of ISE Dept, has a Ph.D. in Computer Science and Engineering M.Tech degree in Information Technology, B.E in Computer Science and Engineering. Specialization in Bioinformatics and Medical Image Processing. Passionate teacher and leader with 26 years of experience in Academic and Administrative roles. 2 years of industry experience working with PSLV project. Received 10L research fund from VGST and AICTE. Nearly 27 publications a Book chapter published, Published More than 7 Books for Academic fields. Conducted and participated in more than 80 +Workshops and Seminars. Participated in various International and National Conferences. Got best paper award in international conference, Gujarat. 2012, best researcher award 2022. Offering 28 years of experience in teaching and interaction across various industries.</p>
	<p>Publications</p> <p>Books</p> <ul style="list-style-type: none"> ● Shanthi (2022). Emerging Role of Artificial Intelligence and Internet of Things on Healthcare Management in COVID-19 Pandemic Situation. Cognitive Computing and Intelligent IoT. ICETCE 2022. ● Communications in Computer and Information Science, vol 1591. Springer, Cham. https://doi.org/10.1007/978-3-031-07012-9_11 (Scopus, Springer Book Series) <p>Journals</p> <ol style="list-style-type: none"> 1. Shanthi M, (2023), Intelligent optimal feature selection-based hybrid variational autoencoder and block recurrent transformer network for accurate emotion recognition model using EEG signals, Image and Video Processing https://doi.org/10.1007/s11760-023-02702-z(Springer) 2. Shanthi M, (2023), Hybrid feature integration model and adaptive transformer approach for emotion recognition with EEG signals, COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING https://doi.org/10.1080/10255842.2023.2252551(Taylor & Francis) 3. Shanthi M, (2023). A framework for blended sub feature engineering for chronic disease prediction using in-memory computing. Intelligence Artificial, Vol. 36, No. 6, pp. 953-957. https://doi.org/10.18280/ria.360617 (Scopus Q3) 4. Shanthi M(2022) “Firefly Competitive Swarm Optimization Based Hierarchical Attention Network for Lung Cancer Detection” , International Journal of Image and Graphics,DOI : https://doi.org/10.1142/S0219467823500171 5. Shanthi M(2022),A Survey analysis for the detection of canine diseases among domestic mammals using image texture pattern extraction methods” , European Journal of Molecular & Clinical Medicine. 6. Shanthi M (2022), Categorization of Veterinary data using Multivariable Linear Regression, International Journal of Advanced Research in Science, Communication and Technology (IJARSCT),DOI: DOI: 10.48175/568 7. Shanthi M, (2021) “Prediction of Accuracy in Emergency Health Records using Hybrid Machine Learning Model”, Journal of Pharmaceutical Research International, 33(58A), pp. 206-212. doi: 10.9734/jpri/2021/v33i58A34107. (Web of Science,ESCI) 8. Shanthi M(2021) “Nodule segmentation of lung CT image for medical applications” Global Transitions Proceedings DOI: https://doi.org/10.1016/j.gltp.2021.01.011 9. Shanthi M(2021),A Survey on Machine Learning Approach for Canine Disease Detection Algorithm, International Journal of Advanced Trends in Computer Science

	<p>and Engineering, DOI: https://doi.org/10.30534/ijatcse/2021/55102202</p> <p>10. Shanthi M (2021), An Efficient Mechanism for Brain Activity Recognition using Deep Neural Network, International Journal of Advanced Trends in Computer Science and Engineering, DOI: https://doi.org/10.30534/ijatcse/2020/269942020</p> <p>11. Shanthi M (2020) “Data Ingestion using a Novel Method: H-Stream Framework,” International Journal of Recent Technology and Engineering (IJRTE), vol. 8, no. 5. Blue Eyes Intelligence Engineering and Sciences Engineering and Sciences Publication - BEIESP, pp. 1945–1949, Jan. 30, 2020. doi: 10.35940/ijrte.e6045.018520. (Elseiver Mendeley, Publons)</p> <p>12. Shanthi M, “Cardiac Monitoring –A Health Application Based on Sensors”IJICS, 520ISSN NO:0972-1347</p> <p>13. Shanthi M “ An effective Approach to find Feasible and Possible Paths between Topologies using Software Defined Networks”, IJDCST @ May-June-2018, Issue- V-6, I-6, SW-10 ISSN-2320-7884</p> <p>14. Shanthi M, “Smart Plant Watering Patrollers”, International Journal of Innovative Research in Electrical, Electronics, Instruments and Control Engineering(IJIREEICE), Volume 7, Issue 3, March 2019. Impact Factor: 6.441, ISSN-2321-5526.</p> <p>15. Shanthi M, “A Comparative study of different segmentation techniques for brain tumour detection”, IJST, vol9(46), DOI:10.17485/106495, December 2016 ISSN-0974-5645</p> <p>16. Dr.Shanthi M, “A Practical Approach for parallel Image Processing”, IOSR Journal of Computer Engineering, 18, Issue 2, March-April , 2016, 82-92</p> <p>17. Dr.Shanthi M, “Machine learning approach for unstructured data using Hive” IJER, 4 (special 4), 790-991,20 May 2016</p> <p>18. Shanthi M, “Computational Method for Reconstruction of Gene Regulatory Network Using Microarray Data”, IJRCCE,ISSN: 2320-9798, vol.2 Special Issue 5, October 2014.</p> <p>19. Shanthi M, “A New Approach For an Improved Multiple Brain Lesion Segmentation“, IJRCCE,ISSN: 2320-9798, vol.2 Special Issue 5, October 2014</p> <p>20. Shanthi M, “Statistical Inference and Reconstruction of Gene Regulatory Network from Observational Expression Profile“, IJRCCE,ISSN: 2320-9798, vol.2 Special Issue 5, October 2014</p> <p>21. Shanthi M “Reconstruction of Gene Regulatory Network to Identify Prognostic Molecular Markers of the Reactive Stroma of Breast and Prostate Cancer Using Information Theoretic Approach“, IJRCCE,ISSN: 2320-9798, vol. 2 Special Issue 5, October 2014</p> <p>22. Shanthi M, “A Multiclass Tumor Classification by Using SVM Classifiers”, American International Journal of Research in Science, Technologies, Engineering & Mathematics(AIJRSTEM), june-August,2013,pp:103-108 (Scopus Indexed)</p> <p>23. Shanthi M and Dr. Neha M, “Analysis of Brain tumor using neural network based PCA and clustering”, International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), Jan-March 2014. (Scopus Indexed).</p> <p>24. Shanthi M, “Knowledge Discovery Process in the Image-Segmentation Data”,International Journal of Knowledge Engineering, Vol. 3, Issue 2, 2012, pp. 188-192, November 06, 2012.</p> <p>25. Shanthi M, “A Comparative Study of Different Segmentation Techniques for Brain Tumour Detection”, International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), March-May 2013 pp. 192-197. (Scopus Indexed)</p> <p>26. Shanthi M, “A Modified Histogram-Thresholding Method for Brain Tumour Detection and Extraction from MRI images. European Journal of Scientific Research, Vol. 108 No 4 August, 2013 pp.515-526 (Scopus Indexed)</p> <p>27. Shanthi M, “Knowledge Discovery in Image-Segmentation Data Set Using Decision Tree Classifiers”, on International Journal of Current Research, Vol.4, Issue, 09,pp.135-140, September, 2012.</p> <p>Magazines</p> <p>☒</p>
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	<p>Conferences</p> <ol style="list-style-type: none"> 1. Advance IPR training on 23th and 24th Feb 2023, KS IT in association with KSCST 2. Shanthi. M, "Computer Aided Detection System for lung Cancer Using Computer tomography Scans", AIP Conference Proceedings 1952, Volume 1952, Issue 1, 2018 3. Shanthi. M, "Comparison and Evaluation of Segmentation Techniques for Brain MRI Using Gold Standard", ICAICT-2016, MVJ College of Engineering 25.08.2016 4. Shanthi. M, "Machine learning approach for unstructured data using Hive", International conference on convergent and innovative technology, 20-21 May 2016. 5. Shanthi. M, "Computational Method for Reconstruction of Gene Regulatory Network Using Microarray Data", SACAIM 2014, Mangalore 14th-15th October 2014 6. Shanthi. M, "New Approach for an Improved Multiple Brain Leison Segmentation", SACAIM 2014, Mangalore 14th-15th October 2014 7. Shanthi. M, "Statistical Inference and Reconstruction of Gene Regulatory Network from Observational Expression Profile", SACAIM 2014, Mangalore 14th-15th October 2014 8. Shanthi. M, "Reconstruction of Gene Regulatory Network to Identify Prognostic Molecular Markers of Reactive Stroma of Breast and Prostate Cancer Using Information Theortic Approach", SACAIM 2014, Mangalore 14th-15th October 2014 9. Shanthi. M, "An Effective automated method for detection of Grids in DNA Microarray", CSI-2013 on 13th-15th December 2013, Visakhapatnam. Advances in Intelligent Systems and Computing, Vol 249, 2014, pp 445-453, Springer 10. Shanthi. M, "A Comparative Study of Different Classifiers on Image-Segmentation Data", ICMIT-2013, Chennai March 15th and 16th 2013. 11. Shanthi. M, "Improvement of Traditional K-Means Algorithm through the Regulation of Distance Metric Parameters",ISCO-2013, Karpagam University, Coimbatore. IEEE Xplore, ISBN:978-1-4673-4359-6, pp: 393-398. 12. Shanthi. M, "Knowledge Discovery in Image-Segmentation Data", ICM2ET-2012 Gujarat, Nov 17th and 18th 2012 13. Workshop on Tools on Neural Networks on 19th march 2011 , conducted by R&D centre of VISVA 14. Workshop on Matlab ver 7.8 April 12th-21st April 2011, conducted by R&D centre of VISVA. 15. Shanthi. M, "DNA Microarray and its fabrication techniques", National Conference on Knowledge extraction and retrieval and Data Mining, in Atria Institute of Technology,KSIR-09, Dept of ISE, on 9th and 10th October 2009. 16. Work on Information Security, conducted by M.S.Ramaiah Institute of Technology, Dept of ISE, 07th and 08th April, 2006 17. Linux in a Nutshell Workshop conducted in CMR on 26th and 27th March 2004 18. Workshop on .Net conducted by Microsoft in IISC, Bangalore 2002 <p>Achievements / Awards / Recognitions</p> <ul style="list-style-type: none"> ● Got best paper award in International conference, Gujarat. 2012, best researcher award 2022 ● Guest of Honor, keynote speaker for internation Conference 2022-2024
	<ul style="list-style-type: none"> ● BoE, CSE/ISE VTU 2021-2022 ● BOE, CSE/ISE NITTE 2022-2023 ● Board Member for MCA in the year 2005 – 2006 ● Paper Set for VTU from 2009 till date ● Deputy Chief Superintendent (DCS)for VTU Exam for the year 2009 December session and ● 2010-2012 ,Dec-Jan 2015-2016 ● DCS internal from 2010 , 2014, 2019 & 2020 ● NBA accredited ISE department ● NAAC A++(Criteria 3 coordinator, Institution level) ● IPR Cell coordinator ● R&D Member

	<ul style="list-style-type: none">● Anti sexual harassment committee , chairperson● Anti Ragging committee Member● Editor for Department and institutional news letter and magazine● Chief Superintendent for VTU exam May-Aug 2018, Dec 2018-Feb 2019● Member in IAENG INTERNATIONAL ASSOCIATION OF ENGINEERS, CSI, ISTE● Research Supervisor, VTU.● Reviewer/Editor for the following Journals:<ol style="list-style-type: none">1. Journal of Computer Science Engineering and Software Testing2. Journal of Data Mining and Management3. Journal of Digital Integrated Circuits in Electrical Devices4. Journal of Medical Imaging and Health Informatics● Research Grands:<ol style="list-style-type: none">a. VGST Grant for 5 Lakh(2017-18): Project Title “Health Monitoring System”b. AICTE-PRERANA Scheme: Rs.4,43,333 (2019-2020)● 80+ FDP, SDP, Webinar, seminar Organized● 50 projects guided for UG an PG
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