Name of the Faculty: Dr. Santhanam T, M.Sc. PGDCA Ph.D.

Designation: Associate Professor

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Specialization: Data Mining

ACHIEVEMENTS

- University 2nd rank in UG
- Masters with 1st class & distinction
- 1st rank in PGDCA

MEMBERSHIP

National

- Indian Linux User Group (ILUGC),Chennai.
- Free Software Foundation, Tamil Nadu(FSFTN).

PROJECTS

Title	Performance analysis of neutral networks for classification of noises in images
Duration	2011-2014
Funding Agency	
Amount Sanctioned (in Lakhs.)	110000

PUBLICATIONS

Journals (Total Journals: 45)

International

- Application of K-means and genetic algorithms for dimension reduction by integrating SVM for diabetes diagnosis, T Santhanam, MS Padmavathi, Procedia Computer Science, 47, (2015), 76-83,
- Feature Selection and Classification for Heart Disease Predication System, T.Santhanam,E.P.Ephzibah, European Journal of Scientific, Vol-121(2), (2014), 183-193,
- Heart Disease classification using PCA and Feed Forward Neural Networks, T.Santhanam,E.P.Ephzibah, Springer International Publishing, Vol-121(2), (2013), 90-99,
- Replica replacement algorithm for data Grid environment, K.Sashi,T.Santhanam, ARPN Journal of Engineering and Applied Sciences, Vol.8(2), (2013), 86-90,
- An efficient classification of fault detection through Compressed Tree (CT) Apriori based approach using ARC-BC classifier, R.Jeevarathinam,T.Santhanam, ARPN Journal of Engineering and Applied Sciences, Vol.8(1), (2013), 64-70,
- A Survery of Partition Based Clustering Algorithms in Data Mining:An Experimental Approach, T.Velmurugan,T.Santhanam, Information Technology Journal, Vol-10(3), (2011), 478-484,
- A Comparative Analysis between K-Medoids and Fuzzy C-Means Clustering Algorithms for Statistically Distributed Data Points, T.Velmurugan,T.Santhanam, Journal of Theoretical and Applied Information Technology, Vol-27(1), (2011), 19-30,
- Application of Neural Networks for Noise and Filter Classification to enhance the Image Quality, T.Santhanam,S.Radhika, International Journal of Computer Science, Vol-8(5), (2011), 314-317,
- Applicability of BPN and MLP neural networks for classification of noises present in different image formats, T.Santhanam,S.Radhika, International Journal of Computer Applications, Vol-26(5), (2011), 10-14,
- Probabilistic Neural Network – A Better Solution for Noise Classification, T.Santhanam,S.Radhika, Journal of Theoretical and Applied Information Technology, Vol-27(1), (2011), 39-42,
- Performance comparisonof random number Generation techniques to minimize the Redundancy for retrieval of database records, T.Santhanam,MeenakshiSundaram, Journal of Theoretical and Applied Information Technology, Vol-29(1), (2011), 47-54,
- Improved Biometric Recognition And Identification Of Human Iris Patterns Using Neural Networks, T.Santhanam,M.Gopikrishnan, Journal of Theoretical and Applied Information Technology, Vol-31(2), (2011), 134-139,
- A Trade-off Between Template Size Reduction and Computational accuracy In Iris Patterns Recognition using Neural Networks, T.Santhanam,M.Gopikrishnan, International Journal of Neural Networks and Applications, Vol-4(2), (2011), 137-142,
- Effect of Different Neural Networks On The Accuracy In Iris Patterns Recognition, T.Santhanam,M.Gopikrishnan, International Journal of Reviews in Computing, Vol-7(1), (2011), 22-28,

- Effect of Training Algorithms on the Accuracy in Iris Patterns Recognition using Neural Networks, T.Santhanam,M.Gopikrishnan, International Journal of Computer Science and Telecommunications, Vol-2(7), (2011), 10-16,
- A Comparison of Blood Donor Classification Data Mining Models, T.Santhanam,ShyamSundaram, Journal of Theoretical and Applied Information Technology, Vol-32(2), (2011), 98-101,
- Real-Time Blood Donor Management Using Dashboards Based on Data Mining Models, T.Santhanam,ShyamSundaram, International Journal of Computer Science, Vol-8(5), (2011), 159-163,
- FUZZY ARTMAP Neural Network Architecture for Weather Forecating, A.C.Subhajini,T.Santhanam, Journal of Theoretical and Applied Information Technology, Vol-34(1), (2011), 22-28,
- Computational Performance of GRNN in Weather Forecasting, A.C.Subhajini,T.Santhanam, Asian Journal of Information Technology, Vol-10(5), (2011), 165-169,
- An Efficient Weather Forecasting System using Radial Basis Function Neural Network, A.C.Subhajini,T.Santhanam, Journal of computer Science, Vol-7(7), (2011), 962-966,
- Computational Complexity between K-Means and K-medoids clustering algorithms for normal and uniform distributions of data points, T.Velmurugan,T.Santhanam, Journal of Computer Science, vol-6(3), (2010), 1549-3636,
- Performance Evaluation of K-Means and Fuzzy C-Means Clustering Algorithms of Statistical Distributions of Input Data Points, T.Velmurugan,T.Santhanam, European Journal of Scientific Research, Vol-46(3), (2010), 320-330,
- Clustering Mixed Data Points Using Fuzzy C-Means Clustering Algorithms for Performance Analysis, T.Velmurugan,T.Santhanam, International Journal on Computer Science and Engineering, Vol-2(10), (2010), 3100-3105,
- A Novel Approach to Classify Noises in Images using Artificial Neural Network, T.Santhanam,S.Radhika, Journal of Computer Science, Vol-6(5)(1), (2010), 506-510,
- A performance Analysis of Modified Mid-Square and Mid-Product Techniques to Minimize the Redundance for Retrieval of Database Records, T.Santhanam,MeenakshiSundaram, International Journal of Computer Science, Vol-6(4), (2010), 386-391,
- A Performance Analysis of Modified Mid-Product and Constant Multiplier Techniques to Minimize the Redundancy for Retrieval of Database Records, T.Santhanam,MeenakshiSundaram, European Journal of Scientific Research, Vol-42(4), (2010), 667-675,
- Neural Network Based Accurate Biometric Recodnition and Identification of Human Iris Patterns, T.Santhanam,M.Gopikrishnan, Journal of Computer Science, Vol-6(10), (2010), 1170-1173,
- Application of CART Algorithm in Blood Donors Classification, T.Santhanam,ShyamSundaram, Journal of ComputerScience, Vol-6(5), (2010), 548-552,

- An Intelligent Approach to Detect Hard and Soft Exudates Using Echo State Neural Network, C. Jayakumari,T. Santhanam, Information Technology Journal, Vol-7(2), (2008), 386-395,
- Robust Detection and Classification of Hemorrhages in Color Retinal Fundus, Images for Screening of Diabetic Retinopathy, C. Jayakumari,T. Santhanam, ACM International Journal, (2008),
- Domain Specific View for Face Perception, MaryMetilda,T. Santhanam, Information Technology Journal, Vol-7(1), (2008), 105-111,
- Solving Uncertainities using Black Box nature of Gaussian, MaryMetilda,T. Santhanam, International Journal of Algorithms, Vol-1(1), (2008),
- Enhanced Intentness Estimation in a Colloquy, M. Nachamai,T. Santhanam,M. Muthuraman, Information Technology Journal, Vol-7(2), (2008), 366-369,
- Fingerprint mimutiae filtering using ARTMAP, T. Santhanam,C.P.Sumathi,K.S.Easwarakumar, International Journal of Nerual Computing and Applications, Vol-1(16), (2007), 49-55,
- A Combination of Genetic Algorithm and ART Neural Network for Breast Cancer Diagnosis, A.Punitha,C.P.Sumathi,T.Santhanam, Asian Journal of Information Technology, Vol-6(1), (2007), 112-117,
- Feature Space Optimization in Breast Cancer Diagnosis using Linear Vector Quantization, A.Punitha,T.Santhanam, Information Technology Journal, Vol-6(8), (2007), 1258-1263,
- Correlated Rough Set Based Classificatory Decomposition for Breast Cancer Diagnosis Using Fuzzy ART Neural Network, A.Punitha,T.Santhanam, Asian Journal of Information Technology, Vol-6(12), (2007), 1212-1217,
- Retinal Blood Vessel Segmentation for the assessment of diabetic retinotheraphy using a Two-Dimensional Model, C. Jayakumari,T. Santhanam, Asian Journal of Information Technology, Vol-6(12), (2007), 1205-1211,
- Detection of Hard Exudates for Diabetic Retinopathy using Contextual Clusturing and Fuzzy Art Neural Network, C. Jayakumari,T. Santhanam, Asian Journal of Information Technology, Vol-6(8), (2007), 842-846,
- Facial Recognition using Curvilinear Feature Signature, MaryMetilda,T. Santhanam, Journal of Information Technology, Vol-6(10), (2007), 771-777,
- Facial Recognition using Curvilinear Shape descriptors, MaryMetilda,T. Santhanam, Asian Journal of Technology, Vol-6(10), (2007), 1064 -1070,
- Stressed/ Neutral speech Classification using Gaussian Support Vector Machine, T.Santhanam,Nachamai.M,Muthuraman.M,C.P.Sumathi, International Journal of soft computing, Vol-2(2), (2007), 355-338,
- Laughter Inquisition in Affect Recognition, M.Nachamai,T.Santhanam, Laughter Inquisition in Affect Recognition,
- International A Novel Approach for Keyword Detection fusing Neural Networks, M.Nachamai,T.Santhanam, Journal of Algorithm Computing and Mathematics,

- Fingerprint Matching using ARTMAP, C.P. Sumathi, T.Santhanam, K.S.Easwarakumar, International Journal of Uncertainityfuzziness and Knowledge,

SEMINARS/ WORKSHOPS/ CONFERENCE/ SYMPOSIUM

National

- Ridge Based Classification of Fingerprints using Fuzzy ARTMAP USING Neural Networks
- Frigerprints and their Biometric features
- A Systematic approach of cancer Diagnosis
- An Overview of Diabetic Retinal Screening System
- Biologically Inspired Approaches to face Detection
- Learning methods of Neural Networks : An overview
- A comparative and study of Support Vector Machines and Neural Networks
- Biologically inspired approaches for face detection
- An Overview of Diab etic Retinal Screening systems
- Design issues of Lip Reading
- Systematic Approach to Cancer Diagnosis
- A study on Learning Models of Neurl Networks
- Fingerprint Image Enhancement Techniques – a review

International

- An Empirical Comparison of Ensemble and Hybrid Classificatiobn, International Conference on Signal Processing, Image Processing and VLSI
- Representing a imkafe uysing Haar-Wavelet Transformation for Human parts dete4ction, Fourth IEEE International Conference on Information Communication & Embedded Systems
- A Surveyu of Techniques for Human Detection in static images ., The 2nd International conference on Conceptual Science, Engineering & Information Technology
- Implementation of Fuzzy C-Means Clustering Algorithm for Arbitrary Data Points, International Conference on Systematics, Cybernetics and infomatocs
- Study on Improved Biometric Recognition And Identification Of Human Iris Patterns Using Neural Networks, Proceedings of the International Conference on Mathematics and Computer Science
- Study on Template Size Reduction And Computational Accuracy in iris Patterns Recognition Using Neural Networks, International Conference on Sematic E-Business and Enterprise Computing

- An Automated Image Noise Identification Using Back Propagation Neural Network , Proceedings of the International Conference on Mathematics & Computer Science
- Minimizing Redundancy in the retrieval of records from question bank using Mid-Product method
- Minimizing Redundancy in the retrieval of records from question bank using Constant Multiplier Method
- Study on Neural Network Based Accurate Biometric Recognition and Identification of Human Iris Patterns
- feature selection strategies for breast cancer analysis
- classification of blood donors using data mining
- clustering of random data points using k-means and fuzzy-c means clustering algorithms
- A study on Contemporary approaches in Facial feature Extraction
- A practical Approach of K-Medoids Clustering Algorithm for Artificial data points
- A Ground Breaking Approach to Emotion Detection-A Connotation
- Minimizing Redundancy in the retrival of records from question bank using Mid-square method
- Performance Analysis of K-Means and K-Medoids Clustering Algorithms for a randomly generated data set
- A Study on existing Neural Network Models
- Robust Detection of Hermorrhages of Diabetic Retinopathy using Fuzzy Art
- , Overcoming hard scenarios in face Recognition
- , An innovative approach for laughter scrutiny in speech recognition
- cross talk Detection and speaker segregation in a meeting
- Data Mining Tools A Survey
- Data Mining of Medical Data Using Rough set theory
- Data mining in business-an overview
- clustering techniques in data mining-an overview
- role of filters in image enhancement-A survery
- A novel approach to select inputs to enhance on Current Trends in Computer Technology
- Error Resilient Video Transmission Over Wireless Networks

RESEARCH GUIDANCE

Ph.D Awarded	14

ADDITIONAL INFORMATION

PROFILE

- Dr.T.Santhanam, aged fifty three, has thirty one years of postgraduate teaching experience in Computer Science, which includes eighteen years of administrative experience . He was\is a member, board of studies, in several university and autonomous colleges, and designs the curriculum of undergraduate programmes. He is a Subject expert appointed by vice chancellor of the University of Madras for starting new courses in computer Science, setting up computer labs, and recruiting Assistant Professors for many colleges. Equipped with a Master's degree in Physics with distinction, a Postgraduate Diploma in Computer Applications with a first rank, and a doctorate in Computer Science, he is a visiting faculty to various professional institutions and IT companies as well as the Institute of the Chartered Accountants of India.

  It is customary to see him at several national/international conferences and training programmes, both as a participant and as resource person. He has been keenly involved in organizing training programmes for students and faculty members. His good rapport with the IT companies has been instrumental in on/off campus interviews, and has helped the post graduate students to get real time projects. He has also guided many such live projects. He was a coordinator /assistant coordinator for distance education programmes in various universities and also coordinates the placement activities of the department.

  Dr.T.Santhanam has authored / reviewed a commendable number of research papers in international / National journals (including impact factor and Scopus indexed) and also guides research scholars and reviewed books of leading publishers. He has written chapters in study materials for MCA program (IDE) of University of Madras. Fourteen of his research scholars have been awarded Ph.D in Computer Science. Currently he heads the Postgraduate and Research department of Computer Science at Dwaraka Doss Vaishnav College one of the premier institutions in Chennai ,for the last eighteen years. His research interests include Biometrics, Data mining, Image processing and neural networks.