

Faculty Profile of Dr. M. Punithavalli



Dr. M. Punithavalli
Professor & Head
Department of Computer Applications

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Research Area

- Machine Learning
- Software Engineering
- Cyber Security

Education & Career

Education

Ph.D.

Subject : Computer Science

Institution : Alagappa University

Affiliated University : Alagappa University

Year of Award : 2007

M.Phil.,

Subject : Computer Science

Institution : Sri Vasavi College, Erode

Affiliated University : Bharathiar University

Year of Award : 2000

M.Sc.,

Subject: Computer Science

Institution : Avinashilingam Institute for Home Science and Higher Education
for Women

Affiliated University : Avinashilingam Deemed University

Year of Award : 1994

B.Sc.,

Subject: Computer Science

Institution: Dr. G.R.Damodaran College of Science

Affiliated University: Bharathiar University

Year of Award: 1991

Career**At Bharathiar University (Reverse Order)**

Professor : April 2018 to Till Date

Associate Professor : April 2015 to May 2018

Past Experience

Dean: December 2013 to April 2015 at Sri Ramakrishna College of Arts and
Science for women, Coimbatore

Director, MCA : August 2011 to December 2013 at Sri Ramakrishna
Engineering College, Coimbatore

Director, MCA : September 2010 to August 2011 at Dr. SNS Rajalakshmi
College of Arts and Science, Coimbatore

Director, MCA : June 2007 to September 2010 at Sri Ramakrishna College of
Arts and Science for Women, Coimbatore

Assistant Professor & Head : July 2003 to June 2007 at Sri Ramakrishna College of Arts and Science for Women, Coimbatore
Lecturer & Head : November 2001 to June 2003 at Sri Ramakrishna College of Arts and Science for Women, Coimbatore
Lecturer : July 1995 to October 2001 at Sri Ramakrishna College of Arts and Science for Women, Coimbatore

Awards

Academic awards

Sl. No. : 1

Awarding agency : National Foundation for Entrepreneurship Development

Country : India

Purpose of award : Senior Woman Educator & Scholar Award

Date of Award : 08.03.2014

Membership

Membership in Professional Bodies

Sl. No. : 1

Organization : Computer Society of India

Type of Membership : Member

Period : Life time Member

Membership in Academic Bodies

Sl. No. : 1

Organization : Bharathiar University (Affiliated Colleges), Nirmala College, PSGR Krishnammal College for Women, NGM College, CMS College

Bharathiar University (University Department), Hindusthan College of Arts and Science , Dr. NGP College of Arts and Science, Dr. SNS Rajalakshmi College of Arts and Science

Type of Membership : Chairman / Member Board of Studies

Period : 2007, 2007, 2009, 2007, 2007, 2007, Since 2015, 2015, 2015, 2015

Sl. No. : 2

Organization : Anna University, Annamalai University, NGM College,
Bharathidhasan University, Avinashilingam University

Type of Membership : Chairman/ Member, Question Paper Setting Board

Period : 2008, 2016, 2016, 2018, 2019

Sl. No. : 3

Organization : Mother Teresa University, Dravidan University, Noorul Islam
University, Rayalaseema University, Jain University

Type of Membership : Examiner - Ph.D Viva Voce

Period : 2014, 2017, 2018, 2020, 2017

Sl. No. : 4

Organization : Ph.D Scholar's Selection- Bharathiar University

Type of Membership : Chairman/ Member Selection Committee

Period : Since 2008

Sl. No. : 5

Organization : Bharathiar University

Type of Membership : Chairman/ Member Experts committee

Period : Since 2007

Sl. No. : 6

Organization : Sri Ramakrishna College of Engineering

Type of Membership : Member Academic Council

Period : 2011

Visits

Collaborators

Others

Projects

Funded Projects (National Level)

- [Ongoing](#)
- [Completed-02](#)

Ongoing Projects List with necessary Information

1. University Grants Commission

Stress management tool

M. Punithavalli

University Grants Commission

2014-2016

Rs.1.7 Lakhs

2. RUSA 2.0 - BEICH

Ground water preservation against soil contamination using machine learning algorithms

M. Punithavalli

RUSA 2.0 - BEICH

2020

6.00 lakhs

Consultancy Projects

- [Ongoing](#)
- [Completed](#)

Ongoing Consultancy Project Informations

Completed Consultancy Project Informations

Research Guidance

- [Post Doc.](#)
- [Ph.D.](#)
- [M.Phil.](#)
- [M.Sc.](#)

Ongoing

Title

Name

Completed

Title

Name

Ongoing

K Chinnathambi

Title of the Thesis : Prediction of Groundwater Level and Groundwater Pollution using Datamining Technique.

Status:Ongoing

Nisha Varghese

Title of the Thesis : Design and Development of Neural Macine Reading Comprehension using Deeplearning Transformer Models

Status:Ongoing

Completed

Sl. No.: 1

Name of the candidate : Manju S

Title of the Thesis : Ideation Learning to enhance Intelligent Agent E - Brainstorming using Neural Network

Year : 2016

Sl. No.: 2

Name of the candidate : Balagi N V

Title of the Thesis : Design and development of an algorithm object detection based on machine learning and multiple resolution features

Year : 2016

Sl. No.: 3

Name of the candidate : K. Shanthi

Title of the Thesis : Effective approaches DSR routing in MANET

Year : 2016

Sl. No.: 4

Name of the candidate : Vijayalakshmi S

Title of the Thesis : Extended Techniques to enhanced DBSCAN algorithm using optimized nearest neighbor and pruning procedure

Year : 2015

Sl. No.: 5

Name of the candidate : Mary Shyla E

Title of the Thesis : Integrated Face Recognition System of Variant Facial Expression and Color

Year : 2015

Sl. No.: 6

Name of the candidate : Vijayalakshmi S

Title of the Thesis : Extended Techniques to enhanced DBSCAN algorithm using optimized nearest neighbor and pruning procedure

Year : 2015

Sl. No.: 7

Name of the candidate : Sathyavathy G

Title of the Thesis : Secure message transmission for image steganography in peer to peer routing

Year : 2014

Sl. No.: 8

Name of the candidate : Neela Megam C

Title of the Thesis : Enhanced ensemble prediction algorithm for detecting model in object oriented system using quality matrix

Year : 2014

Sl. No.: 9

Name of the candidate : Rani V, G

Title of the Thesis : Combined weight based on secured cluster head selection algorithm

Year :

Sl. No.: 10

Name of the candidate : Rosiline Jeetha B

Title of the Thesis : Approaches to partition medical data using enhanced algorithm

Year : 2013

Sl. No.: 11

Name of the candidate : Ravichandran R

Title of the Thesis : An investigation on improving process capability of defined level software companies in respect of effort and schedule deviations

Year : 2013

Sl. No.: 12

Name of the candidate : Maheswari K

Title of the Thesis : A packet loss replacement techniques for Secured data delivery in voice over internet protocol

Year : 2013

Sl. No.: 13

Name of the candidate : R.V Shiva Balan

Title of the Thesis : Web Service Rank Determination Using A Novel Integration Framework

Year : 2012

Sl. No.: 14

Name of the candidate : K. Ananda Kumar

Title of the Thesis : Investigation on cancer classification using neural network algorithm expression of very few genes

Year : 2012

Sl. No.: 15

Name of the candidate : Koamala Lakshmi

Title of the Thesis : Design and execution of skeleton tracking algorithm for 2D space representation

Year : 2012

Ongoing

Sample Data.

Completed

Sl. No.: 1

Name of the candidate : J. DIVYA BHARATHI

Title of the Thesis : Improved Resource Allocation Algorithms for Cloud

Year : 2017

Sl. No.: 2

Name of the candidate : V. AKILA

Title of the Thesis : Stress Level Analyzer using Fuzzy Rule Mining

Year : 2014

Sl. No.: 3

Name of the candidate : S.SARANYA

Title of the Thesis : An Efficient Centroid Selection Algorithm for K-mean Clustering

Year : 2009

Sl. No.: 4

Name of the candidate : A.ANITHA

Title of the Thesis : Media Crossing to Media Mining

Year : 2007

Sl. No.: 5

Name of the candidate : S. VIJAYALAKSHIMI

Title of the Thesis : Location based broadcast protocol for MANET using Data Mining Techniques

Year : 2003

Sl. No.: 6

Name of the candidate : E. NIRMALA RAJESWARI

Title of the Thesis : Content Based Image Classified and Retroviral using Data Clustering Techniques

Year : 2003

Ongoing

Sample Data.

Completed

Sl. No.: 1

Name of the candidate : DEEPAK R

Title of the Dissertation : PROJECT ACTIVITY FOR ORPHANAGE MENAGEMENT
SYSTEM PROJECT REPORT

Year : APRIL 2019

Sl. No.: 2

Name of the candidate : MIDHUNAMURALI C

Title of the Dissertation : FINGER PRINT (IMAGE) BASED ATM SECURITY

Year : APRIL 2019

Sl. No.: 3

Name of the candidate : PRIYANGA P

Title of the Dissertation : ONLINE ASSIGNMENT SUBMISSION MANAGEMENT

Year : APRIL 2019

Sl. No.: 4

Name of the candidate : T. KATHIRNATH

Title of the Dissertation : TEXTILE SHOP MANAGEMENT SYSTEM

Year : APRIL 2019

Sl. No.: 5

Name of the candidate : T. SATHYA

Title of the Dissertation : HOSPITAL WORK PROCESSING SYSTEM

Year : APRIL 2019

Sl. No.: 6

Name of the candidate : JEROME. J

Title of the Dissertation : GIF VIDEO CATEORZING BY USING MACHINE
LEARNING

Year : APRIL 2019

Sl. No.: 7

Name of the candidate : G.M.MALINI

Title of the Dissertation : DOEMART

Year : APRIL 2019

Research Publication

- [International](#)
- [National](#)
- [Patents](#)
- [Conference](#)
- [Books/Chapters](#)
- [Database](#)

2021

36. [Conceptual Review on Machine Learning Algorithms for Classification Techniques](#)

T.Mohana Priya, Dr. M. Punithavalli,

International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), 7(1), 215-222 (2021), UGC CARE

2020

35. [Groundwater Level Prediction Based On Rainfall And Ground Water Utilization](#)

K. Chinnathambi, M Punithavalli

International Journal of Advanced Science and Technology, 29(3), 11566 – 11575 (2020)

34. [Multi Biometric Authentication using Score Level Fusion and Non-Invertible Template Formation Technique](#)

P Gayathirii, M Punithavalliss

International Journal of Future Generation Communication and Networking, 13(3) (2020)

33. [Machine Learning Algorithm for Development of Enhanced Support Vector Machine Technique to predict stress](#)

Rajeshkanna R, T. Mohana Priya, Dr. M. Punithavalli, Dr. R. Rajesh Kanna
Global Journal of computer Science and Technology, 20(2), 63-72 (2020)

32. [Semantic Similarity Analysis on Knowledge Based and Prediction Based Models](#)
Nisha Varghese, M. Punithavalli
International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, 9(6), 477-481 (2020)
31. [Tiny Videos-based Cascade Boosting \(TCB\) Classifier on Human Action Recognition](#)
R. Amsaveni, M. Punithavalli
International Journal of Advanced Science and Technology, 29(6), 427-433 (2020)
30. [Groundwater Level Prediction Based On Rainfall And Ground Water Utilization](#)
K. Chinnathambi, M. Punithavalli
International Journal of Advanced Science and Technology, 29(3), 11566 – 11575 (2020)
29. [An effectual stochastic logitboost based discriminate filter for cloud traceability and analysis](#)
K. Kavitha, M. Punithavalli
Solid State Technology, 0038-111X, vol.63. 6 (2020)
28. [Efficient Network Threat Detection and Classification Method using SVM+NB Algorithm on Cloud Computing](#)
K. Kavitha, M. Punithavalli
International Journal of Advanced Research in Engineering and Technology (IJARET), 11(11), 1852-1871 (2020)
27. [Bounded memory based frequent pattern growth approach with deep neural network and decision tree for road accident prediction](#)
N Arun Prasath, M Punithavalli
Indian Journal of Computer Science and Engineering (IJCSE), 11(5), 2020
26. [Optimising prediction in overlapping and non-overlapping regions](#)
B.V. Sumana, M Punithavalli
International Journal of Natural Computing Research (IJNCR), 9(1) (2020)
25. [Machine Learning Algorithm for Development of Enhanced Vector Machine Technique to predict Stress](#)

2019

24. [An Efficient Data Mining Techniques - Multi Objective KNN Algorithm to Predict Breast Cancer](#)

T.Mohana Priya M.Punithavalli

International Journal of Recent Technology and Engineering (IJRTE)

ISSN: 2277-3878, 8(28) (2019)

23. Improved Support Vector Machine (I-SVM) Machine Learning Model to Predict Stress Data

T.Mohana Priya, Dr. M. Punithavalli,

Journal of Management Research and Analysis (JMRA), 169-174, 1(1), 2019

ISSN No:2394-2762(UGC CARE)

22. [Impact on Brain due to Alcoholism using Improved Fuzzy C-Regression based Alcohol Detection](#)

S. Gayathri and Dr. M .Punithavalli

International Journal of Innovative Technology and Exploring Engineering

9(2) (2019)

21. [Alcohol Expectancy Prediction Using Fuzzy C-Regression Based Structural Brain Imaging](#)

S. Gayathri, M. Punithavalli, Chaitanya

Journal of Intelligent Engineering & Systems, 12(5) (2019)

20. [Impact in brain due to alcohol -note](#)

S.Gayathri , Dr. M. Punithavalli

International journal of scientific & technology research 8(11) (2019)

19. [Prediction of Road Accident Locations in Road Accident Database by Mining Spatio-Temporal Association Rules](#)

Arun Prasath N and M. Punithavalli

ARPN Journal of Engineering and Applied Science 14(12) (2019)

18. [Card Fraud Reduction Technology in Biometric Fingerprint Security Using Data Mining Algorithms](#)

P. Gayathiri, M. Punithavalli

- International Journal of Engineering and Advanced Technology, 1321-1325, 8 (6), (2019)
17. [Partial Fingerprint Recognition of Feature Extraction and Improving Accelerated KAZE Feature Matching Algorithm'](#) authored
P. Gayathiri, M. Punithavalli
International Journal of Innovative Technology and Exploring Engineering, 8(10), 3685-3690 (2019)
16. [A Survey on Data Mining Algorithm for Brain Disorder](#)
Gayathri S, Dr. M. Punithavalli
International Journal Of Research In Advent Technology, 6(7), 1371-1375 (2018)
15. [A Review On Road Accident Detection using Data Mining Techniques](#)
N. Arun Prasath and M. Punithavalli
International Journal of Advanced Research in Computer Science, 9(2) (2018)
14. [Improved Resource Allocation Algorithms for Cloud](#)
J. Divyabharathi, Dr.M.Punithavalli
International Journal of Computer Science and Mobile Applications, 6(1), 58-66, (2018)
13. [Artificial Recharge of Groundwater Using Data Mining Techniques: A Conceptual Survey](#)
K. Chinnathambi, Dr. M. Punithavalli
IPASJ International Journal of Computer Science (IJCS), 6(2) (2018)
12. [A Review: Machine Learning Algorithms for Analysis of Smartphone Addiction](#)
V Chaitanya , Dr. M. Punithavalli, S , Gayathri
International Journal of Research in Advent Technology, 6(12) (2018)
11. [A Survey on Energy Aware Resource Allocation in a Cloud](#)
J. Divyabharathi, Dr.M. Punithavalli
International Journal of Advanced Research in Computer and Communication Engineering, 6(8), (2017)

10. [Geo IP Detection of Credit Card Fraud Using K-Nearest Neighbor Algorithm](#)

P. Gayathiri, M. Punithavalli

International Journal of computer Science and Mobile Applications, 5(11) 22-28, (2017)

9. [Speech Recognition System for Different Kannada Dialects](#)

Hemakumar G, Punithavalli M, Thippeswamy K

International Journal of Scientific Research in Computer Science, Engineering and Information Technology, 2(5), 80-88, (2017)

8. [Large Vocabulary in Continuous Speech Recognition Using HMM and Normal Fit](#)

G Hemakumar, M Punithavalli Thippeswamy

International Journal of Computer Trends and technology (IJCTT), 42 (2016)

7. [Forward Weighted Firefly for Feature Selection in health Care Dataset](#)

Vydehi. S. Punithavalli.M

Imperial Journal of inter Disciplinary Research, 2(5), 2016

6. [Feature Selection Using Forward Weighted Genetic Algorithm](#)

Vydehi. S. Punithavalli.M

International Journal of Innovations in Engineering and Technology, 7(3), 267-270 (2016)

5. [Clustering Uncertain Gene Dataset using KLSE \(Kullback-Leibler & Shannon Entropy to improve Cluster quality](#)

Vydehi.S, Punithavalli.M

International Journal of applied Engineering Research, 4(11), (2015)

4. Similarity based clustering Techniques in uncertain dataset – A literature survey

Vydehi.S, Punithavalli.M

International Journal of Advanced Engineering Research & Technology, 3(8) (2015)

3. [Adaptive Particle Swarm Optimization based QoS Aware Scheduling Routing Protocol \(APSO-QSRP\) for Heterogeneous Mobile Ad hoc Networks](#)

M.Mohanraj and Dr.M.Punithavalli

International Journal of Applied Engineering Research, 115(5), 18-24 (2015)
<https://www.researchgate.net/publication/282271608>

2. [Neural Network- based ideation learning for intelligent agents: e-brainstorming with privacy preferences](#)

S.Manju Dr. M. Punithavalli

International Journal on Computational Vision and Robotics, 5(3), 231-253 (2015)

1. [Strategic Media Access Control and QoS Aware Scheduling based Routing Protocol \(SMAC-SBRP\) for Heterogeneous Mobile Ad Hoc Networks](#)

M.Mohanraj , M.Punithavalli

International Journal of Computer Applications (0975 – 8887) 115(5) (2015)

2021

Sl.No. Title

Author Name:

Journal Name:

2020

Accordion content 2.

Patents

Books Edited in Year Wise

Chapters Edited in Year Wise

Alumini Reflections: