

Government Arts college (Autonomous), Coimbatore –18
Performance - Teacher Appraisal Report

i) General Information

- a) Name : **Dr.P.SUMATHI**
- b) Address (Residential) : No: A-1107, Central Park,
Sathy Main Road, Saravanampatti
Coimbatore-641035.
- c) Designation : Associate Professor
- d) Department : Information Technology
- e) Date of Birth : 02-05-1974
- f) Area of Specialization : Distributed Computing and Data Mining



A) Academic Qualifications

Examination passed	Board / university	Subject	Year	Division grade/merit etc.,
High School	Board of Secondary Education	Tamil, English, Maths, Science, History, Geography	1989	I Class with Distinction
Higher Secondary	Board of Higher Secondary Education	Maths, Physics, Chemistry, Biology	1991	I Class with Distinction
Bachelor's Degree	BSc., Bharadhidasan University, Trichy	Physics	1994	I Class with Distinction
Master's Degree	MCA., Bharathiar University, Coimbatore	Computer Applications	1997	I Class with Distinction
	MA., Bharathiar University, Coimbatore	Yoga for Human Excellence	2022	I Class with Distinction
Research Degree	M.Phil., Mother Teresa Women's University, Kodaikanal	Computer Science	2004	Awarded
	PhD, Bharathiar University, Coimbatore	Computer Science	2010	Awarded

Others (Degrees, Diplomas) Certificates etc. Account Test For Executive Officer	Government of Tamilnadu - May 2012	Departmental Exam Reg. No: 041158 7th Aug 2012 Published	2012	Passed
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ii) Research Experience & Training

Research stage	Title of thesis	University where the work was carried out.
M.Phil	Software Cost Estimation Adopting Fuzzy Methods	Mother Teresa Women's University, Kodaikanal
Ph.D	Advanced Reservation and Scheduling in Grid Environment For e-Governance Applications	Bharathiar University, Coimbatore
No. of Publications	Refer Appendix - A	
Research guidance (give the names of students guided successfully)	Refer Appendix - B	
Training (please specify)	Refer Appendix - C	

B) Research Projects carried out

S. No.	Title of the Project	Name of the Funding Agency	Duration	Remarks
1	Early Prediction of Human Diseases Using Machine Learning Techniques Based on Medical Data	UGC Mini Project (F: MRP-4897/14 (SERO/UGC) dated March 2014	2 yrs	Completed

C) Seminars, Conferences, Symposia Workshops etc. attended

Name of the Seminars / Conferences / Symposia / Workshops etc	Name of the Sponsoring Agency	Place and Date
Refer Appendix - D		

iii) Teaching Experience

Courses Taught	Name of University/ College/Institution	Duration	
		Period of employment From - To	Years of Experience
U.G., and PG.,	Sengunthar Arts and Science College, Tiruchengode	15.07.1997 to 31.05.1997	9.5 months
U.G., and PG.,	PSG College of Arts and Science, Coimbatore.	12.06.1998 to 25.02.2011	12 years 9 months
U.G.,	Chikkanna Government Arts College, Tirupur.	26.02.2011 to 08.08.2012	1 year 6 months
U.G., and PG.,	Govt.Arts College, Coimbatore	08.08.2012 to till date	11 years

Total Teaching Experience (in years and months) :

a)	Under-graduate	25 years
b)	Post-graduate	24 years
c)	Research	20 years

viii) Innovations/ Contributions in Teaching

a) Design of Curriculum :	Designed syllabus for B.Sc(CS), BSc(IT), BCA., MSc(SS) and M.C.A., Courses.
b) Teaching methods :	Lecturing, educational quiz, group discussions, seminars. Teaching through A/V aids, Industrial visits and training.
c) Laboratory experiments :	Experiments based on problems solving ability in accordance with the syllabus, Questionnaires and conducting viva-voce.
d) Evaluation methods :	Tests, seminars, problem solving experiments, Paper presentation, Attentiveness of the student is periodically watched, Problem solving Exercises, Projects.
e) Preparation of resource material including books, reading materials, laboratory manuals etc.:	1. Mainly prescribed text books 2. Consultation with senior professors 3. Journals and magazines 4. Internet, Magazines, News papers

f) Remedial Teaching / Student Counseling (academic) :	Special coaching classes, Identifying students' problems, helping them in Solving problems & parental counseling.
g) Any other :	---

X) Extension Work/ Community Service

A) Please give a short account of your contribution to:

- i) Community work such as values of National integration, secularism, Democracy, socialism, humanism, Peace, scientific temper, flood or Drought relief, small family norms etc., : Creating awareness about the basic values, Interpersonal skills, social skills and Prosocial behaviour among students and members in the community.
- ii) National Literacy Mission : Creating awareness about the importance and value of literacy.
- b) Positions held/Leadership role with Extension Work and National Service Scheme (NSS) or (NCC) or any other similar activity. : Resource person for training the school teachers

B) Positions held / leadership role played in organizations linked with Extension Work National Service Scheme (NSS), or NCC or any other similar activity

C. Participation in Corporate Life

Please give a short account your contribution to:

a) College/ University / Institution	Helping the Principal, HOD in the Departmental activities, Maintaining Discipline in the campus Motivating the Students to join all the extracurricular activities.
b) Co-curricular Activities	Helping the students to actualize their potentials, Directing them to participate in various programmes, Job fairs conducted by other colleges and Universities.
c) Enrichment of Campus Life (Hostels, sports, games, cultural activities)	Helping/Assisting /Guiding the Principal, HOD, Colleagues and students to enrich the campus life. Encouraging the students to participate in various Literary events.
d) Students Welfare and Discipline	Periodical/ informal counseling to the students, Their Parents and family members in the Guidance and Counseling Cell. Member- Board of studies, Syllabus framing, External and
e) Membership / Participation in Bodies	Member- Board of studies, Syllabus framing, External and Internal examiner in theory. DC member in Doctoral Committee, University nominee/subject expert in Board of Studies of different

f) Professional Organization of Teachers	---
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D.(a) Membership of Professional Bodies, Societies, Editorship of Journals etc.

Refer Appendix - E

E. Any other information: Nil



**Signature of the Teacher
(Dr.P.Sumathi)**

APPENDIX – A

C. Research Experience & Training **Research Publications**

S.No	Journal of Publication	Name of the Article	Authors	Year of Publication
1	The international Journal of Data Warehousing and Mining	An Intuitionistic Fuzzy C-Means Clustering Algorithm with Point Symmetry Distance Measure	Dr.P.Sumathi Dr.V.Kathiresan	November 2014
2	International Journal of Modern Trends in Engineering and Research	A Hybrid Model For Medical Data Using Machine Learning Approaches	Dr.P.Sumathi Dr.V.Kathiresan	February 2016
3	The International Journal of Science & Technology	A Novel Method for Prediction of Human Diseases Using Machine Learning Algorithms	Dr.P.Sumathi Dr.V.Kathiresan	March 2016
4	Journal on Theoretical and Applied Information Technology	A New Fuzzy C Means Clustering Algorithm Based On Constrained Dynamic Time Warping Distance Measure	Dr.P.Sumathi Dr.V.Kathiresan	Sep 2014
5	International Journal of Data Mining and Knowledge Engineering	The Centroid Initialization for K-Means Clustering Algorithm based on T-Score Ranking Method	Dr.P.Sumathi Dr.V.Kathiresan	Oct 2011
6	International Journal of Computer Science and Mobile Computing	An Approach to Emerging Classification Method for Large data Set in Clustering	Dr.P.Sumathi Dr.V.Kathiresan	Jan 2014
7	International Journal of Scientific research and Management	A Fuzzy Clustering Ensemble Approach for Categorical Data	Dr.P.Sumathi Dr.V.Kathiresan	2013
8	International Journal of Engineering and Computer Science	Recommendation Diversity using Optimization Techniques and Ranking Method	Dr.P.Sumathi Dr.V.Kathiresan	2013
9	Journal of Computer Information Systems	An Efficient Methodology for Large Dimensional Data Set of K Means Clustering Algorithm in Data Mining”, International	Dr.P.Sumathi Dr.V.Kathiresan	Jan 2013
10	HELIX: Thomson Reuters (Web of Science-ESCI)	Customer Behavior Predictive Modeling for Online Shopping Using Tuned Decision Tree Method	Dr. P.Sumathi T.Arunkumar D.Kalaivani,	September 2017
11	International Journal of Recent Innovation in Engineering and Research	Implementing Decision Tree Cross Validation Method to Analyse and Optimize the Shopping Fashion of Web-based Consumers	D.Kalaivani, P.Sumathi and T.Arunkumar	August 2017
12	International Journal of Advance Engineering and Research Development	Advanced Prophetic Decision Tree Model for Consumer Behavior prediction	D.Kalaivani, P.Sumathi and T.Arunkumar	August 2017
13	International Journal of System Assurance Engineering and Management Springer	Factor based prediction model for customer behavior Analysis	D.Kalaivani and P.Sumathi	JULY 2018
14	International Organization of Scientific research - Journal Computer Engineering	A Pragmatic Analysis of implementing Multi-Variate Decision Tree Algorithm for Super vised Classification of Online Customers	D.Kalaivani and P.Sumathi	
15	International Journal of web based communities, Scopus Indexed, Inderscience	Multi Process Predictive Modeling for Predictive Modeling Analysis	D.Kalaivani, P.Sumathi and T.Arunkumar	March 2018
16	International Journal of Engineering Research and Technology	A State-of-the-Art Literature Survey on Energy / Power Constraint Quality of Service Enabled Routing for Wireless Sensor Communication Networks	D.Antony Arul Raj and Dr.P.Sumathi	10, Oct 2013

17	Wireless Sensor Network	Enhanced Energy Efficient Multipath Routing Protocol for Wireless Sensor Communication Networks Using Cuckoo Search Algorithm	D.Antony Arul Raj and Dr.P.Sumathi	Apr 2014
18	International Journal of Innovative Research in Computer and Communication Engineering	A Brief Study on Bio - Organism Behavior Inspired Computing Techniques and Its Applications	D.Antony Arul Raj and Dr.P.Sumathi	Oct 2016
19	Imperial Journal of Interdisciplinary Research	A Review on Security Issues in Wireless Sensor Networks using Bio-inspired Computing	D.Antony Arul Raj and Dr.P.Sumathi	Mar 2017
20	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	An Outlook Investigation on Wireless Sensor Communication Network Routing Algorithm using Nature – Inspired Computing	D.Antony Arul Raj and Dr.P.Sumathi	Mar 2017
21	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	A Study on Multipath Based Routing in Wireless Sensor Communication Networks	D.Antony Arul Raj and Dr.P.Sumathi	Mar 2018
22	International Journal of Research in Applied Science and Engineering Technology	Analysis on Energy Efficiency Flat Routing Protocols for Wireless Sensor Communication Network	D.Antony Arul Raj and Dr.P.Sumathi	Apr 2018
23	International Journal for Research in Applied Science & Engineering Technology	A Modern QoS- based Routing protocols for WSCN: A Survey	D.Antony Arul Raj and Dr.P.Sumathi	Apr 2018
24	Journal of Advanced Research in Dynamical and Control Systems	Genome-Enabled Prediction of Genetic Values Using Fuzzy Neural Network	T.S.Umamaheswari and Dr. P. Sumathi	2017
25	Cluster Computing -The Journal of Networks, Software Tools and Applications (Publisher-Springer)	Enhanced Firefly Algorithm (EFA) based gene selection and Adaptive Neuro Neutrosophic Inference System (ANNIS) prediction model for detection of circulating tumor cells (CTCs) in breast cancer analysis	T.S.Umamaheswari and Dr. P. Sumathi	2018
26	International Journal of Innovative Knowledge Concepts	Review of gene selection and prediction using data mining methods	T.S.Umamaheswari and Dr. P. Sumathi	2018
27	International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)	Analysis of IPv6 Stateless Address Auto configuration in Campus Network Environment	P. Sumathi, Saroj Patel, A. Prabhakaran	Feb 2015
28	International Journal of Advanced Networking & Applications (IJANA)	An Experimental of IPv6 Address Assignment for Global Unicast Address Using NS-3	P. Sumathi, Saroj Patel, A. Prabhakaran	Dec 2015.
29	International Journal of Research in Engineering and Social Sciences	Performance Comparison of NDP and SeND Protocol using Real Time Test Bed	P. Sumathi, Saroj Patel, A. Prabhakaran	Dec 2017
30	International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications [IJARIDEA]	A Survey on IPv6 Secure Link Local Communication Models, Techniques and Tools	P. Sumathi, Saroj Patel, A. Prabhakaran	Dec 2017.
31	International Journal of Research in Engineering and Technology	Analytical Survey of Active Intrusion Detection Techniques in Mobile Ad hoc Networks	R.M.Chamundeeswari and P.Sumathi	May 2014
32	International Journal of Scientific & Engineering Research	Efficient Detection Of Intrusion Using Inner And Outer Boundary Models With Transductive Learning Concept In Mobile Adhoc Network	R.M.Chamundeeswari and P.Sumathi	June 2014
33	International Journal of Theoretical and Applied Information Technology	An Effective Scheduling Of Multiple Source Nodes In MANET Using Dempster-Shafter Hypothesis	R.M.Chamundeeswari and P.Sumathi	December 2014
34	International Journal of Computer Application	A study on IDS Mechanism in MANET”, International Journal of Computer Application	R.M.Chamundeeswari and P.Sumathi	August 2014
35	International Journal of	Performance Study Of Intrusion Detection	R.M.Chamundeeswari	April 2015

	Engineering and Technology	Techniques in Mobile Ad Hoc Networks	and P.Sumathi	
36	International Journal of Scientific Research and Management (IJSRM)	Secure Routing protocols and Intrusion Detection Protocols in MANET	R.M.Chamundeeswari and P.Sumathi	September 2017
37	Ad Hoc & Sensor Wireless Networks	An Effective Intrusion Detection Intrusion Detection Model for Dynamic Topological Channel Behavior Using Dense Node Behavior	R.M.Chamundeeswari and P.Sumathi	2017
38	ARPN Journal of Science and Technology	An Effective Method to Preprocess the Data in Web Usage Mining	B.UmaMaheswari and Dr.P.Sumathi	Mar 2013
39	International Journal of Advanced Studies in Computer Science and Engineering	Novel Web Usage Mining using Modified Expectation Maximization Clustering	B.UmaMaheswari and Dr.P.Sumathi	Apr 2015
40	International Journal Of Applied Engineering Research	Prediction Of Web Users Interest On Buying Behavior For E-Commerce Solutions	B.UmaMaheswari and Dr.P.Sumathi	Sep 2015
41	International Journal of Advanced Research in Computer Science and Software Engineering	TSVM Approach for Classification of the Behavior Profiles of Customers in Ecommerce	B.UmaMaheswari and Dr.P.Sumathi	Nov 2015
42	International Journal of Advance Research in Computer Science and Management Studies	Machine Learning Algorithms for Classification of Web Users in E-Commerce Portals	B.UmaMaheswari and Dr.P.Sumathi	Nov 2015
43	International Journal of Science and Research	A Comparative Study of Rule Mining Based Web Usage Mining Algorithms	B.UmaMaheswari and Dr.P.Sumathi	Nov 2015
44	International Journal of Innovative Research in Computer and Communication Engineering	A Survey on Web Usage Mining Preprocessing	B.UmaMaheswari and Dr.P.Sumathi	Nov 2015
45	International Journal of Emerging Research In Management And Technology	A Comparative Study Of KNN And EvABCDClassification Method For Customer Behavior	B.UmaMaheswari and Dr.P.Sumathi	Dec 2015
46	Sylwan,, SCI	Identifying Viewer Interest On E-Commerce Portals Using Browse Patterns	B.UmaMaheswari and Dr.P.Sumathi	Oct 2016
47	The SIJ Transactions on Compute Science Engineering & its Applications (CSEA)	Text Mining Interpreting Knowledge Discovery From Biomed Articles	K.Prabavathy and Dr. P.Sumathi	May-June 2013
48	International Journal of Research in Computer and Communication Technology	Information Retrieval Navigation System for Knowledge Discovery From Biomed Articles	K.Prabavathy and Dr. P.Sumathi	July 2013
49	Research Journal of Applied Sciences, Engineering and Technology Scopus Indexed	Dictionary and Gene Ontology Based Similarity for Named Entity Relationship Protein-Protein Interaction Prediction from Biotext Corpus	K.Prabavathy and Dr. P.Sumathi	December 2014
50	International Journal of Emerging Engineering Research and Technology	Knowledge Discovery System (KDS) for Named Entity Recognition	K.Prabavathy and Dr. P.Sumathi	February 2015
51	International Journal of Applied Engineering Research Scopus Indexed	Interpretation of Knowledge Discovery System on formulation of Gene Disease Relationship	K.Prabavathy and Dr. P.Sumathi	2015
52	International Journal of Applied Engineering Research (IJAER)	An approach for Microarray Gene Ranking and Classification using Hybrid Extreme Learning Machine Algorithm	T.Revathi, Dr.P.Sumathi	2014
53	Journal Of Theoretical And Applied Information Technology (JATIT)	A Novel Microarray Gene Ranking And Classification Using Extreme Learning Machine Algorithm	T.Revathi, Dr.P.Sumathi	2014
54	International Journal of Engineering and Advanced Technology (IJEAT)	An Overview of Data Mining Classification Methods in Aortic Stenosis Prediction	T.Revathi, Dr.P.Sumathi	August 2014
55	International Journal of Emerging Technologies in Computational and Applied Sciences (IJTCAS),	Fuzzy C-Means Clustering for Alzheimer Disease Detection from Human Brain MRI	T.Revathi, Dr.P.Sumathi	2014
56	International Journal of Advanced	A Successive Feature Selection Algorithm	T.Revathi,	February 2014

	Research in Computer and Communication Engineering (IJARCCE)	for Gene Ranking	Dr.P.Sumathi	
57	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJREEICE)	Microarray Analysis using Fuzzy C means Clustering Algorithm	T.Revathi, Dr.P.Sumathi	January 2014
58	International Journal of Scientific and Engineering Research (IJSER)	A Survey on Data Mining using Clustering Techniques	T.Revathi, Dr.P.Sumathi	January 2013
59	International Journal of Soft Computing and Engineering (IJSCE)	Distributed Data Mining based on Random Projection with Optimal Communication	T.Revathi, Dr.P.Sumathi	January 2013
60	International Journal of Engineering Research & Technology (IJERT)	Information Retrieval By Analyzing Hyperlinks Web Structure Mining	Rajdeepa, B. and DR. P. Sumathi	2013
61	International Journal of Scientific and Engineering Research (IJSER)	Web Mining and Its Methods	Rajdeepa, B. and DR. P. Sumathi	2013
62	International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)	An Analysis of Web Mining and its types besides Comparison of Link Mining Algorithms in addition to its specifications	Rajdeepa, B. and DR. P. Sumathi	2014
63	International Journal of Applied Engineering Research (IAER)	Best Web Site Structure for Users based on Particle Swarm Optimization Approach	Rajdeepa, B. and DR. P. Sumathi	2014
64	International Journal of Computer Science and Mobile Computing (IJCSMC)	Efficient Mining Web Navigation Pattern using an Efficient Graph Traverse Algorithm	Rajdeepa, B. and DR. P. Sumathi	2014
65	Journal of Theoretical and Applied Information Technology (JATIT)	Web Structure Mining for Users Based on a Hybrid GA/PSO Approach	Rajdeepa, B. and DR. P. Sumathi	2014
66	International Journal of Computer Applications	Novel Pre-Processing Technique for Web Log Mining by Removing Global Noise, Cookies and Web Robots	P.Nithya and Dr.P.Sumathi	2012
67	International Journal of Computer Technology and Applications	A survey on Web Usage Mining :Theory and Applications”, ISSN:2229-6093	P.Nithya and Dr.P.Sumathi	2012
68	Journal of Theoretical and Applied Information Technology	Novel Modified FPCM for Web Log Mining by Removing Global Noise and Web Robots	P.Nithya and Dr.P.Sumathi	2015
69	International Journal of Emerging Technologies in Computational and Applied Science	An Effective Web User Analysis and Clustering using FPCM Algorithm	P.Nithya and Dr.P.Sumathi	2014
70	ARPN Journal of Science and Technology	An Effective Web Usage Analysis using Fuzzy Clustering	P.Nithya and Dr.P.Sumathi	2014
71	International Journal of Emerging Trends and Technology in Computer Science	Pollution Monitoring using Energy efficient routing in Wireless Sensor Networks	R.A.Roseline , Dr.M.Devapriya and Dr.P.Sumathi	2012
72	International Journal of Scientific Research Publications(IJSRP),	Solar Power for Wireless Sensor Networks in Environment monitoring Applications-A Review	R.A.Roseline and Dr.P.Sumathi	2012
73	International Journal of Information Technology	A Review on Clustering Techniques for efficient routing in Wireless Sensor Networks	R.A.Roseline and Dr.P.Sumathi	2012
74	Global Journal of Computer Science and Technology	Energy Efficient Routing Protocols and Algorithms for Wireless Sensor Networks	R.A.Roseline and Dr.P.Sumathi	December 2011
75	International Journal of Advanced Smart Sensor Networks	Fire Monitoring and Extinguishing Algorithm using Wireless Sensor and Actor Networks	R.A.Roseline and Dr.P.Sumathi	Oct 2012
76	International Journal of Application or Innovation and Engineering and Management	Pollution Monitoring using Sensors and Wireless Sensor Networks: A Survey. (Funded by UGC).	R.A.Roseline and Dr.P.Sumathi	August 2012
77	IJEST	Intrusion Detection Using Kernelized Support Vector Machine with Levenberg-	V.Jaiganesh, Dr.P.Sumathi	March 2012

		Marquardt Learning		
78	IJCSIS	A Survey on Building Intrusion Detection System Using Data Mining Framework	V.Jaiganesh, Dr.P.Sumathi	March 2012.
79	ICTACT Journal on Soft Computing	Fast Hierarchical Relevance Vector Machine towards Network Intrusion Detection System	V.Jaiganesh, Dr.P.Sumathi	
80	JATIT	An Efficient Intrusion Detection using Fast Hierarchical Relevance Vector Machine	V.Jaiganesh, Dr.P.Sumathi	April 2014.
81	IJCA	An Efficient Algorithm for Network Intrusion Detection System	V.Jaiganesh, Dr.P.Sumathi	March 2014
82	IJCTA	Classification Algorithms in Intrusion Detection System: A Survey	V.Jaiganesh, Dr.P.Sumathi	Sep-Oct 2013
83	IJCA	A Competent Intrusion Detection Using Relevance Vector Machine	V.Jaiganesh, Dr.P.Sumathi	July 2013.
84	IJCET,	An Efficient Intrusion Detection Using Relevance Vector Machine	V.Jaiganesh, Dr.P.Sumathi	Jan-Feb 2013
85	IJARCCCE	Intrusion Detection Systems: A Survey and Analysis of Classification Techniques	V.Jaiganesh, Dr.P.Sumathi	April 2013.
86	International Journal of Innovative Research In Computer And Communication Engineering (IJRCCE)	An Analysis and Review of Spam Detection Techniques in Various Forms	R. Priya and Dr. P. Sumathi	January 2016
87	International Journal of Computer Trends and Technology	An Overview of identity Deception approaches and its effects	Preensta Ebenazer. M and Sumathi. P	Jul 2015
88	International Journal of innovative research in computer and communication engineering	An upgraded Identity deception technique based on non-verbal behavior using PSO approach	Preensta Ebenazer. M and Sumathi. P	Nov 2015
89	International Journal of Computer Science & Engineering Technology	Social Networking Services Deception Detection: A Survey	S.Karthikeyan and Dr.P.Sumathi	Nov.2016
90	International Journal of Innovative Research in Computer and Communication Engineering	An Analysis on Different Data Aggregation Techniques in Wireless Sensor Networks	N.Divya and Dr.P.Sumathi	December 2015
91	International Journal of Life science and Pharma Reviews SCIE	Closed Sequential Pattern Mining in Biological Data	S. Jawahar and Dr. P. Sumathi	Feb 2020
92	International Journal of Scientific Research in Computing	Mining Interesting and Frequent Contiguous Sequential Patterns in Large DNA Sequence Datasets	S. Jawahar and Dr. P. Sumathi	July 2019
93	International Journal of Life science and Pharma Reviews SCIE	Efficiently Mining Closed Sequence Patterns in DNA Without Candidate Generation	S. Jawahar and Dr. P. Sumathi	Feb 2020
94	Journal of Web Engineering SCOPUS	An Efficient K-mer counting and indexing method using Bloom filter for Biological DNA Sequences	S. Jawahar and Dr. P. Sumathi	May 2019
95	International Journal of Research in Engineering, IT and Social Sciences UGC	A new method for detecting Fuzzy Tandem Repeats (FTR) using Levenshtein Distance for Biological data	S. Jawahar and Dr. P. Sumathi	February 2019
96	International journal of Engineering and Technology (UAE) SCOPUS	Fast and accurate identification of Short Tandem Repeats (STRs) using hash function in DNA sequences	S. Jawahar and Dr. P. Sumathi	December 2018
97	International Journal of Management, IT and Engineering. UGC	The Risk Of Breast Cancer Associated With Brca1 And Brca2 Gene Genetic Mutation: A Review	S. Jawahar and Dr. P. Sumathi	August 2018
98	International Journal of Pure and Applied Mathematics	An Efficient Contiguous Pattern Mining technique to predict mutations in breast cancer for DNA data sequences	S. Jawahar and Dr. P. Sumathi	July 2018
99	International Journal of Research in Engineering, IT and Social Sciences	A Survey on Sequential Generator Mining Algorithms	S. Jawahar and Dr. P. Sumathi	December 2017
100	International Journal of	Secured And Memory Concerned Data	D PRADEEPA	

	Engineering Research & Technology (IJERT)	Handling Management In Cloud Environment: A Survey	Dr P SUMATHI	2017
101	International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE)	Efficient Multi-User And Multi-Keyword Ranked Search Scheme For Encrypted Cloud Data	D PRADEEPA Dr P SUMATHI	2020
102	International Journal of Future Generation Communication and Networking	Efficient Indexing Method for Multi-Keyword Ranked Search for Encrypted Cloud Data Using E-TFIDF	D PRADEEPA Dr P SUMATHI	2020
103	International Journal of Innovative Research in Advanced Engineering (IJIRAE)	Adaptive Secure And Dynamic Encrypted Cloud Data Using Elliptic Curve Cryptography	D PRADEEPA Dr P SUMATHI	2021
104	Turkish Journal of Computer and Mathematics Education (TURCOMAT)	Efficient multi keyword search and retrieve encrypted cloud data using IDDFS and FPgrowth algorithm	D PRADEEPA Dr P SUMATHI	2021
105	Gradiva Review Journal	Efficient encrypted hybrid secured multi-keyword Ranked search (EHMRS) for encrypted cloud data	D PRADEEPA Dr P SUMATHI	2023
106	International Journal of Computer Engineering and Applications. UGC	Survey on The Integration of Cloud Computing With Internet of Things: Research Issues, Challenges, Platforms And Applications For Smart Cities	R. Kavitha and Dr. P.Sumathi	July 2018
107	Journal of Applied Science and Computations. UGC	Efficient Smart City Garbage Collection Methodology Using Moth Flame Optimization	R. Kavitha and Dr. P.Sumathi	August 2018,
108	Journal of Applied Science and Computations	IoT Based Garbage Methane Gas Detection System	R. Kavitha and Dr. P.Sumathi	October 2021
109	Indian Journal of Natural Sciences. SCIE	Cloud-Based Smart Garbage Collection System Using IoT	R. Kavitha and Dr. P. Sumathi	December 2021
110	Design Engineering SCOPUS	Virtual Access: Virtual Authentication in Public Cloud for Secure Access Control	R. Kavitha and Dr. P. Sumathi	April 2021
111	International Research Journal of Multidisciplinary Science & Technology	Security Enhancement in Cloud Computing Using Cipher Block Chain	R. Kavitha and Dr. P.Sumathi	November 2022
112	Neuroquantology SCOPUS	Optimal Route Generation for Garbage Collection Using Modified Dijkstra Algorithm	R. Kavitha and Dr .P.Sumathi	November 2022
113	International Research Journal of Multidisciplinary Science & Technology	Darp Delay Aware Routing Protocol for Garbage Vehicular Delay Tolerant Network	R. Kavitha and Dr. P.Sumathi	November 2022
114	International Journal of Applied Engineering Research	Hybridized Soft Computing Approaches Based Data Mining Techniques For Protein Dataset	A. Revathi And Dr.P.Sumathi	2016
115	International Journal of Linguistics and Computational Applications (IJLCA)	An Efficient Way of Finding Optimal Path using Protein Data Set: Ant Colony Optimization with Rough Set Theory for Feature Selection	A. Revathi And Dr.P.Sumathi	April – June 2017
116	International Journal of Innovative Research in Science, Engineering and Technology	Comparative Analysis of Protein Datasets using Firefly Algorithm with Rough Set Based Attribute Reduction(FA_RSAR)	A. Revathi And Dr.P.Sumathi	October 2017.
117	International Journal of Innovative Research in Computer Science & Technology (IJRCST)	Finding Accuracy in Feature Selection Using Firefly Algorithm with Rough Set theory	A. Revathi And Dr.P.Sumathi	November-2017.
118	Journal of Advanced Research in Dynamical & Control Systems, Vol. 10, Issue 06, pp. 204-212. (SCOPUS Indexed)	Neural Trained XG Boosting Classifier for Feature Engineering in Bioinformatics Data Analysis	A. Revathi And Dr.P.Sumathi	2018
119	Journal of Emerging Technologies and Innovative Research. (UGC Indexed)	Gradient Descent Logit Boost Classification Technique for Diagnosing Cancer Diseases Accurately	A. Revathi And Dr.P.Sumathi	2019
120	Intelligent Computing and	Discovering the Androgen Transition and	A. Revathi And	2019

	Innovation on Data Science, Lecture Notes in Networks and Systems	Prognostic Cardiovascular Disease by Hybrid Techniques in Datamining	Dr.P.Sumathi	
121	SYLWAN Journal (ISSN: 0039-7660). (Science Citation Indexed)	Insolent Insurrection of Predicting Androgen the Cardiovascular by Embedding in Data Mining Techniques	A. Revathi And Dr.P.Sumathi	2019
122	International Journal of Advanced Information Science and Technology(IJARSE)	Survey of Cloud Security and Privacy Preservation	K.Arumugam And Dr.P.Sumathi	August 2014
123	International Journal of Advance Research in Science and Engineering (IJAIST)	Overview of Security issues in Cloud computing	K.Arumugam And Dr.P.Sumathi	Sep'2014
124	International Journal of Engineering & Technology (IJET- UAE), Scopus Indexed	Scalable and Enhanced Key-Aggregate Cryptosystem in Cloud-based intelligent Health Monitoring System	K.Arumugam And Dr.P.Sumathi	2018
125	International journal of Engineering Technology & Management Sciences [IJETMS]	A Scalable Decentralized Accessing of Health Care Data with Improved Privacy over Cloud Health Monitoring System	K.Arumugam And Dr.P.Sumathi	July, 2018
126	SYLWAN Journal, (SCI/UGC)	An attack resistant decentralized privacy-preserving access control protocol for SE-KAC based E-Healthcare system in cloud has reviewed	K.Arumugam And Dr.P.Sumathi	2019
127	IJRAR - International Journal of Research and Analytical Reviews (IJRAR) IJRAR	Data Mining Approach to Improve Prediction of Students Performance Using Information Theory	N,Megala And Dr.P.Sumathi	October 2018
128	Journal of Computer Science, New York, USA	Constructing a Grid Simulation for E-Governance Applications using GridSim	P.Sumathi and Dr.M.Punithavalli	2008
129	CiiT International Journal of Networking and Communication Engineering, Coimbatore	The Hybrid Architecture for the Secure Exchange of Data in E-Governance Applications	P.Sumathi and Dr.M.Punithavalli	2009
130	Journal of Convergence Information Technology	Efficient Advance Reservation Algorithm for the Exchange of Data in E-Governance Applications	P.Sumathi and Dr.M.Punithavalli	2008
131	International Journal of Computer Science and System Analysis, Serial Publications, New Delhi	Secure Protocol for Efficient Data Exchange in Grid	P.Sumathi and Dr.M.Punithavalli	January-June 2008
132	i-manager's Journal on Software Engineering, i-manager publications,	Efficient Scheduling Algorithm for the Exchange of Data in Grid Environment	P.Sumathi and Dr.M.Punithavalli	January-March'09
133	International Journal of Innovative Research In Computer And Communication Engineering (IJRCCE)	An Analysis and Review of Spam Detection Techniques in Various Forms	R. Priya and Dr. P. Sumathi	January 2016
134	International Journal of Innovative Research in Computer and Communication Engineering	An Analysis on Different Data Aggregation Techniques in Wireless Sensor Networks	N.Divya and Dr.P.Sumathi	December 2015
135	International Journal of Computer Trends and Technology	An Overview of identity Deception approaches and its effects	Preensta Ebenazer. M and Sumathi. P	Jul 2015
136	International Journal of innovative research in computer and communication engineering	An upgraded Identity deception technique based on non-verbal behavior using PSO approach	Preensta Ebenazer. M and Sumathi. P	Nov 2015
137	International Journal of Computer Science & Engineering Technology	Social Networking Services Deception Detection: A Survey	S.Karthikeyan and Dr.P.Sumathi	Nov.2016
138	IJRAR - International Journal of Research and Analytical Reviews (IJRAR) IJRAR	Data Mining Approach to Improve Prediction of Students Performance Using Information Theory	N,Megala And Dr.P.Sumathi	October 2018

List of Papers Published in Conference proceedings

1. V.Jaiganesh, Dr.P.Sumathi, National Conference on NITAC- 2914 held at Bannari Amman Institute of Technology, Sathyamangalam, "Intrusion Detection System Using Machine Learning Algorithm", 14.03.2014 and 15.03.20014.
2. V.Jaiganesh, Dr.P.Sumathi, IEEE International conference on ICICES held at SA Engineering College, Chennai, "An Analysis of Intrusion Detection system using Back Propagation Neural Networks", ISBN: 978-1-4673-5786-9, 21 - 22.02.2013.
3. V.Jaiganesh, Dr.P.Sumathi, International conference on ICRTCT held at DR NGP Arts and Science College, Coimbatore, "Comparative Analysis of Classification Techniques for Intrusion Detection: A survey", 30-31.01.2013.
4. R.A.Roseline and P.Sumathi, "A Decentralised Routing Algorithm for Time Critical Applications using Wireless Sensor Networks", Advances in Computing and Information Technology, Springer, pp.125-133.
5. R.A.Roseline and P.Sumathi, "Enhanced Fire Monitoring and Extinguishing Routing Algorithm using Clustering in Wireless Sensor and Actor Networks", Accepted in International Institute of Engineers Conference 2014, Singapore .
6. Kathiresan, V. and Sumathi P., "A Proposed Methodology for prediction of Health diseases using Machine Learning Algorithms" held on 9th of January 2014 at PSGR Krishnammal College for women, Coimbatore.
7. Kathiresan, V. and Sumathi P., "A Study on Initialization Algorithms for KMeans Clustering Algorithms in Data Mining" held on 15th of February 2013 at RVS College of Arts & Science, Coimbatore.
8. Rajdeepa, B. and Sumathi, P., 2014, Personalizing user search with auto feedback by an enhanced Algorithm, Proceedings of the 6th International Conference on Transition from inertia to Implementation, Adaikalamatha College, 13th September 2014.
9. Rajdeepa, B., and Sumathi, P., 2015, Healthy Diet System Using Two Decision Tree Algorithm ID3 and C4.5, Proceedings of the Conference on Innovation in computational Intelligent Techniques, Anna University, Regional Centre, Coimbatore, 20th and 21st February 2015.
10. T.Revathi and Dr.P.Sumathi, Facial Expression Recognition Using Data Mining Techniques, NationalConference at Bannari Amman Institute of Technology, 19th February 2015, Sathyamangalam.
11. T.Revathi and Dr.P.Sumathi, Lung Cancer Prediction System Using Data Mining Techniques, International conference at GRD College Of Arts & Science, Coimbatore, 20th February 2015.
12. T.Revathi and Dr.P.Sumathi, A Survey On Multimedia Data Mining, National Conference at Anna University Regional Center, Coimbatore, 21st February 2015.
13. T.Revathi and Dr.P.Sumathi, A Comparative study on K means and Fuzzy C means Algorithm for Breast Cancer Anlysis, National Conference on Issues and Trends in Advanced Computing at Bannari Amman Institute of Technology, Sathyamangalam, 14th March 2014.
14. T.Revathi and Dr.P.Sumathi, Page Ranking Algorithm, National level Conference on Innovative Information Technology at AJK College of Arts and Science, Coimbatore, 5th Feb 2014.

15. T.Revathi and Dr.P.Sumathi, Micro Array Analysis using Kmeans Clustering Algorithm, National seminar on data mining applications in genomics and proteomics at Bharathiar University, Coimbatore, 24th January 2014.
16. T.Revathi and Dr.P.Sumathi, A Survey on Web Content Mining Techniques, National Level Conference on Computational Intelligence-2013 at Sri Ramakrishna Mission Vidyalaya College of Arts & Science, Coimbatore, 27th February 2013.
17. A. Revathi and P. Sumathi, “An Efficient Feature Selection using Fiefly Optimization Approach with Protein Data Set” in the International Conference on Compting Intelligence and Applications-2K17” held at Dr. SNS Rajalakshmi College of Arts and Science, Coimbatore on 29th July 2017.
18. A. Revathi and P. Sumathi, “Neural Trained XGBoosting Classifier for Feature Engineering in Bioinformatics Data” in the International Conference at Christ University, Bengaluru, held from 2nd – 3rd March 2018 and published in JARDCS.
19. K.Prabavathy and P.Sumathi, “Adaptive Information System for Knowledge Discovery from Biomed Articles (AIS Search Engine)”, IEEE Sponsored International Conference on Knowledge Collaboration in Engineering, Coimbatore, 2014.
20. B.UmaMaheswari and Dr.P.Sumathi, Presented a paper on “A Web Usage Mining Using Expectation Maximization Clustering”, at IEEE 8th International Conference on Intelligent Systems and Control, Jan 2014 held at Karpagam College of Engineering Coimbatore.
21. B.UmaMaheswari and Dr.P.Sumathi, “A New Clustering and Preprocessing for Web Log Mining”, IEEE Sponsored International Conference on World Congress on Computing and Communication Technologies, IEEE XPLORE, Mar 2014, ISBN: 978-1-4799-2876-7.
22. B.UmaMaheswari and Dr.P.Sumathi, Presented a paper on “An Efficient Clustering Algorithm Using Modified EM”, at National Level Conference on Recent Advancement in Information and Computer Technology, Mar 2015 held at VLB Janakiammal College of Arts & Science, Coimbatore.
23. B.UmaMaheswari and Dr.P.Sumathi, Presented a paper on “A Survey on User Profiles of Customers in e-Commerce Website”, National Level Conference on Research Issues on Big Data, Sep 2015 held at Rathinam College of Arts & Science, Coimbatore.
24. B.UmaMaheswari and Dr.P.Sumathi, Presented a paper on “An Approach to Classification of Users’ Profile” at National Level Conference on Recent Trends in Computer Technology, Sep 2015 held at Kodaikanal Christian College, Kodaikanal.
25. R.M.Chamundeeswari and P.Sumathi, SecondInternationalConference(CAIT2013) on “Computer Application and Information Technology” paper Presented on “Survey on various Strategies of Intrusion Detection Mechanism in MANET” held on 17thDecember 2013 at Hindustan College of Arts and Science, Coimbatore.
26. R.M.Chamundeeswari and P.Sumathi, First International Conference on Trends in Technology (TITCON’14) paper presented on “Analytical Survey of Active Intrusion Detection Techniques in Mobile AdhocNetwork” held on April 8⁹th2014 at AVS Engineering College, Salem.
27. R.M.Chamundeeswari and P.Sumathi, Fifth National Conference on “Computer Communication and Informatics - NCCCI 2014”paper presented on “Survey of Various attacks and Secure Routing Mechanism in MANET” held on 27thFebruary 2014 at RVS College of Arts &Science Coimbatore.

28. R.M.Chamundeeswari and P.Sumathi, National Conference (CACOMM-14) on “Emerging Trends in Computer Application and Communication” paper presented on “Intrusion Detection and Secure Routing Protocol based on AODV over IPV6” held on 7th March 2014 at Nehru College of Management, Coimbatore.
29. D.Kalaivani, P.Sumathi and T.Arunkumar, “Customer Behaviour Predictive Modeling for Online Shopping Using Tuned Decision Tree Method”, in the International Conference on Cognitive Science and Artificial Intelligence on 06th July 2017 at Sree Vidyanikethan Engineering College, Tirupati, Andhra Pradesh.
30. D.Kalaivani, P.Sumathi and T.Arunkumar, “Application of Open Source Data Mining Tools for Optimized Data Visualization and Prediction” in the International Conference on Computing Intelligence and Applications on 29th July 2017 at Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore.
31. D.Kalaivani and P.Sumathi, “A Pragmatic Analysis of implementing Multi-Variate Decision Tree Algorithm for Supervised Classification of Online Customers”, in the International Conference on Next Generation Computing Technologies (ICNGCT-2017) 12th October 2017 at Sankara College of Science and Commerce, Coimbatore, Tamilnadu.
32. S. Jawahar And Dr. P. Sumathi , “The Closed Sequence Patterns For DNA Data Without Candidate Generation”, Proc. of the International Conference on Bioscience and Bioinformatics (ICBB 2017, Bharathiar University December 2017, pp. 163.
33. S. Jawahar And Dr. P. Sumathi, “Efficiently Mining Closed Sequential Patterns in Biological Data”, Proc. of the 3rd International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS 16), Karpagam College of Engineering, May 2016.
34. Preensta Ebenazer. M and Sumathi. P, “An Investigation on identity Deception approaches and its impact”, in the National Conference on Emerging Computer Technology at Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore on 22 Sept 2015.
35. D.Antony Arul Raj and Dr.P.Sumathi, “Classical Routing protocols for WSN” , National Conference on Recent Advancement in Information and Computer Technology, March 2015.
36. D.Antony Arul Raj and Dr.P.Sumathi, “ Open issues in Routing Techniques in Ad-hoc Wireless Sensor Networks”, National Conference on Research Issues in Big Data-Sep 2015.
37. D.Antony Arul Raj and Dr.P.Sumathi, “A State Art Survey on Flat Routing Protocols in Wireless Sensor Technologies”, National Conference on Recent Trends in Computer Technology, Sep-2015.
38. D.Antony Arul Raj and Dr.P.Sumathi, “A Review on Fuzzy Based Routing in Wireless Networks” , National Conference on Recent Advancement in Information and Computer Technology, March 2016.
39. D.Antony Arul Raj and Dr.P.Sumathi, “ A Review on Wireless Sensor Network Routing Algorithm using Bio inspired Computing”, International Conference on Innovative Trends in Computer Science and Applications. Jan 2017.
40. D.Antony Arul Raj and Dr.P.Sumathi, “ Analysis on Computational Intelligence Routing”, National Conference on Recent Advancement in Information and Computer Technology, Feb 2017.
41. D.Antony Arul Raj and Dr.P.Sumathi, “Hybrid Algorithms for Wireless Sensor Networks”, National Conference on Emerging Trends in Soft Computing, March 2018.

42. K.Arumugam and Dr.P.Sumathi, “Enabling Cross-site Interaction in Social Networks Fuzzy Based Random Forest Algorithm” in the National Conference on Mining, InterNetworking and Data Security (MINDS 2014) at Department of Computer Science and Engineering, Alagappa University, Karaikudi on 27th – 28th March’2014.
43. K.Arumugam and Dr.P.Sumathi, “Overview of Security issues in Cloud Computing” in the International Conference on Emerging Trends in Science and Cutting Edge Technology, (ICETSCET-2014) at AR Research Publication Team, New Delhi on 28th September 2014.
44. K.Arumugam and Dr.P.Sumathi, “A Scalable Decentralized Accessing of Health Care Data with Improved Privacy over Cloud Health Monitoring System” in the International Conference on Advances in Electronics and Computer Systems, (ICA ECS – 2015) at International Society for Scientific Research and Development (ISSRD), Bangalore, Karnataka on 06th –07th June 2015.
45. K.Arumugam and Dr.P.Sumathi, “Collision Resistance Proxy Re-Signature for Improved Security in Cloud Data Storage” in the National Conference on ‘Emerging Computer Technology’, (NCECT – 2015) at Department of Computer Studies, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore on 22nd September 2015.
46. K.Arumugam, Dr.P.Sumathi and R.Predeepa, “Security Issues in Cloud Data Storage: A Survey” in the 5th International Conference on Contemporary Issues in Agriculture, Engineering, Management, Information Technology & Life Sciences at Nehru College of Management, Coimbatore, India and Post Graduate Institute of Agricultural University of Peradeniya, Srilanka on 11th - 15th May 2017.
47. K.Arumugam and Dr.P.Sumathi, “Secure and QoS Guaranteed selection Resources for storing Health care Information of Cloud Users” in the International Conference on Computation Methodologies and Communication (IEEE - ICCMC 2017) at Surya Engineering College, Erode on 18th -19th July’2017.

APPENDIX-B

a) Research Guidance

M.Phil., Computer Science

S.No.	Name of the Scholar	Name of the University	Broad field	Year	FT/PT	Reg no.
1.	Stanley Sherin	Bharathiar	Data Mining	2008	FT	2006R789
2.	SeethaLakshmi.M	Bharathiar	Data Mining	2009	FT	2009R417
3.	Saranya.N.T	Bharathiar	Networking	2010	FT	2009R416
4.	Kanimozhi.N	Bharathiar	Data Mining	2011	PT	2011PR276
5.	Devaki.O	Bharathiar	Data Mining	2011	PT	2011PR274
6.	Suhasini.V	Bharathiar	Data Mining	2012	PT	2012PR348
7.	M. Preensta Ebenazer	Bharathiar	Data Mining	2016	FT	2014R456
8.	Divya.N	Bharathiar	Data Mining	2016	FT	2013PR244
9.	Priya.R	Bharathiar	Data Mining	2016	FT	2013PR243
10.	S.Karthikeyan	Bharathiar	Data Mining	2017	FT	2015R439
11.	N.Megala	Bharathiar	Data Mining	2017	FT	2017R0411

PhD., Computer Science

S.No	Name of the Scholar	University	Broad field	Year	FT/PT	Reg no.
1.	V.Jaiganesh	Manonmaniam	Data Mining	2011	PT	7706
2.	R.A.Roseline	Bharathiar	Sensor Networks	2011	PT	
3.	P.Nithya	Manonmaniam	Networking	2011	PT	7704
4.	V.Kathiresan	Bharathiar	Data Mining	2012	PT	
5.	B.Rajdeepa	Bharathiar	Data Mining	2012	PT	
6.	T.Revathi	Manonmaniam	Data Mining	2011	PT	5745
7.	V.Prabhavathy	Manonmaniam	Data Mining	2011	PT	7705
8.	B.Umamaheswari	Bharathiar	Data Mining	2012	PT	
9.	D.Antony Arul Raj	Bharathiar	Data Mining	2012	PT	18735/ B1 / 2011
10.	R.M.Chamudeeswari	Bharathiar	Networking	2012	PT	18735 / B1 / 2011
11.	K.Arumugam	Bharathiar	Network security	2013	FT	B1/277/2013
12.	S.Jawahar	Bharathiar	Data Mining	Sep 2014	PT	21327 / B1 / 2014
13.	D.Pradeepa	Bharathiar	Data Mining	Sep 2014	PT	21327 / B1 / 2014
14.	A.Revathi	Bharathiar	Data Mining	July 2014	PT	Ph.D-CB-JUL2014-0663
15.	S.Kalaivani	Bharathiar	Data Mining	July 2014	PT	Ph.D-CB-JUL2013-0441
16.	T.S.Umamaheswari	Bharathiar	Data Mining	July 2012	PT	Ph.D-CB-JUL2012-0688
17.	R.Kavitha	Bharathiar	Network security	July 2017	FT	11737/ B1 /2017
18.	V.Manju	Bharathiar	Networking	Sep 2022	PT	22PNOV 1087/2022
19.	S.Karpagadeepa	Bharathiar	Networking	Sep 2023	PT	----

b). PhD/M.Phil Awarded

Sl.No	Name of the PhD/M.Phil (PT/FT) scholar	Name of the University	Title of the thesis	Year of registration of the scholar	Year of award of PhD
M.Phil					
1.	Stanley Sherin	Bharathiar	Implementation of aprioriall algorithm in ecommerce environments	2008	Completed
2.	SeethaLakshmi.M	Bharathiar	Classification of conflicting information in the web pages using clustering algorithm	2009	Completed
3.	Saranya.N.T	Bharathiar	Content based image retrieval using r+ tree algorithm	2010	Completed
4.	Kanimozhi.N	Bharathiar	Efficient algorithm for mining high utility itemsets from transactional database	2011	Completed
5.	Devaki.O	Bharathiar	Rough set reduct algorithm for medical domain based feature selection	2011	Completed
6.	Suhasini.V	Bharathiar	Exceptional behavior identification on causal association for heart disease treatment	2012	Completed
7.	M. Preensta Ebenazer	Bharathiar	An enhanced identity deception detection based on non-verbal behavior using particle swarm optimization approach	2016	Completed
8.	Divya.N	Bharathiar	Efficient clustering technique for wireless sensor networks in the presence of collusion attacks	2016	Completed
9.	Priya.R	Bharathiar	An analysis and review of spam detection and authentication techniques in various forms	2016	Completed
10.	S.Karthikeyan	Bharathiar	Identity deception based detection and prevention system in social networks	2017	Completed
11.	N.Megala	Bharathiar	Feature selection technique to enhance prediction in datamining	2017	Completed
PhD					
1.	V.Jaiganesh	Manonmaniam	Investigation on machine learning algorithms for network intrusion detection system	2011	Completed
2.	R.A.Roseline	Bharathiar	Environment monitoring using energy efficient routing algorithms in wireless sensor and actor networks	2011	Completed
3.	P.Nithya	Manonmaniam	Discovery of web usage patterns from web logs using fuzzy clustering approach	2011	Completed
4.	V.Kathiresan	Bharathiar	Design and development of a new methodology For fuzzy based data clustering of high dimensional data	2012	Completed
5.	B.Rajdeepa	Bharathiar	A novel framework for optimized web based on Soft computing techniques	2012	Completed
6.	T.Revathi	Manonmaniam	A new hybrid algorithm for gene classification with multiclass	2011	Completed

			microarray data		
7.	V.Prabhavathy	Manonmaniam	Design and development of information retrieval system from biotext corpus	2011	Completed
8.	B.Umamaheswari	Bharathiar	Design and development of web personalization to improve buying behavior of users' in E-commerce portals	2012	Completed
9.	D.Antony Arul Raj	Bharathiar	Design and development of energy saving routing protocols for wireless sensor networks	2012	Completed
10.	R.M.Chamudeeswari	Bharathiar	Investigation on transductive learning, scheduling and predictive techniques for intrusion detection in manet	2012	Completed
11.	K.Arumugam	Bharathiar	Design and development of scalable and Efficient security algorithms for cloud based healthcare system	2013	Completed
12	S.Jawahar	Bharathiar	An empirical approach to mine contiguous patterns and tandem repeats using data mining techniques in dna sequences	Sep 2014	Completed
13	D.Pradeepa	Bharathiar	An efficient and secure multi-keyword ranked search scheme over encrypted cloud data	Sep 2014	Submitted
14	A.Revathi	Bharathiar	A typical exploration of lipidemic architecture cardio vascular disease on focal data sets using data mining techniques	July 2014	Completed
15	S.Kalaivani	Bharathiar	A machine learning framework to predict online buying behavior of the customers using business intelligence	July 2014	Completed
16	T.S.Umamaheswari	Bharathiar	Design and development of machine learning algorithms for prediction of genetic values	July 2012	Completed
17	R.Kavitha	Bharathiar	Solid waste administration using iot with public cloud environment for smart cities	July 2017	Completed
18	V.Manju	Bharathiar	-----	Sep 2022	Pursuing
19	S.Karpagadeepa	Bharathiar	-----	Sep 2023	Pursuing

APPENDIX – C

Training

- Attended 24 days **Orientation Course** organized by the UGC- Academic Staff College, University of Madras in association with Tamil Nadu State Council for Higher Education, Chennai from 4th May 2011 to 2nd June 2011.
- Attended eight days training program on “**Certificate in .NET Programming**” conducted by ICT Academy of Tamil Nadu between 29th May 2010 and 5th June 2010 held at PSG College of Technology.
- Attended State level Faculty Development Programme on “**J2EE and Best practices in Application Development**” conducted by ICT Academy, in Bharathiar University, Coimbatore on 16th and 17th of September 2009.

APPENDIX – D

Seminars, Conferences, Symposia Workshops etc., Attended:

- Attended National level seminar on “**Recent Trends in Information Technology**” conducted by Sri Ramakrishna Mission Vidyalaya College of Arts and Science on 23rd March 2009.
- Attended International workshop on “**Research Methods & Techniques**” conducted by the Avinashilingam Deemed University, Coimbatore on 18th and 19th of July 2008.
- Attended “**E-Content Training Programme**” conducted by the UGC-CEC New Delhi from 4th April to 27th April 2006.
- Attended **Orientation Programme** on teaching techniques methodology held on 21/07/01 at PSG College of Arts & Science.
- Attended National Level Seminar on “**Network and Information Security**” conducted by the P.S.G.R Krishnammal college for Women held on 8th January 2007.

S No.	Name of the Event	Date	Institution	Topic
1	Workshop	7 th -11 th Aug 2017	Sri Ramakrishna Women’s College Coimbatore	Cloud infrastructure and service
2	Workshop	15 th &16 th Feb 2017	PSG Arts and Science, Coimbatore	Introduction to Big Data analytics with R
3	Workshop	1 st & 2 nd Feb 2018	Bharathiar University Coimbatore	Data Analytics and R
4	Workshop	21 st &22 nd Feb 2018	Government Arts College Coimbatore	Python Programming

S.No	Name of the Conference/Seminar	Sponsoring Agency	Place & Date
1.	Cloud infrastructure and service	SRWC	Sri Ramakrishna Women’s College Coimbatore 7 th -11 th Aug 2017
2.	Introduction to Big Data analytics with R	PSG CAS	PSG Arts and Science, Coimbatore 15 th &16 th Feb 2017
3.	Data Analytics and R	BU	Bharathiar University Coimbatore 1 st & 2 nd Feb 2018
4.	Python Programming	UGC	Government Arts College Coimbatore 21 st &22 nd Feb 2018
5.	IoT	KEC	Kongu Engineering College 5 th July 2019
6	Online LIVE FDP on Cloud Technology	AICTE Training and Learning (ATAL) Academy	02-11-2020 to 06-11-2020 (5 days)
7	Online Live FDP on Introduction to Big Data Analytics	ICT Academy	26 Apr 2021 to 30 Apr 2021

S.No	Name of the Event	Date	Institution	Topic
1	Faculty Development Program	10/06/2020 Wednesday 11:00 AM	Dr. SNS Rajaakshmi College of Arts and Science - Coimbatore	“Building Right Attitude in Students towards Growth”
2	Faculty Development Program	02/06/2020 – 06/06/2020	Government Arts College for Women, Salem - 8	“Moodle Learning Management System”
3	Faculty Development Program	12/06/2020	Pioneer College of Arts and Science - Coimbatore	“Design And Development of Online course Through Moodle Platform”
4	Faculty Development Program	10/06/2020 – 12/06/2020	Namakkal Kavingnar Ramalingam Government Arts College for Women – Namakkal -637001	“R : Basics to Analytics”
5	Webinar	02/07/2020	Loyola College of Arts and Science - Namakkal	“Cloud Computing and its Challenges”
6	Faculty Development Program	10/06/2020 – 30/06/2020	KGISL Institute of Technology - Coimbatore	“Cloud Computing”
7	Webinar	04/07/2020	Sri Jayendra Saraswathy Maha Vidyalaya College of Arts and Science – Coimbatore - 641005	“Introduction to Azure Cloud Technology”
8	Online Faculty Development Webinar	04/06/2020	Hindusthan College of Arts and Science – Coimbatore - 641028	“Learning Management System : MOODLE”
9	Faculty Development Program	08/06/202 – 14/06/2020	Shree Mallikarjun & Shri. Chetan Manju Desai College, Canacona	“Institutional benchmarking of best practice”
10	Webinar	29/06/2020	Government Arts College - Coimbatore - 18	“IOT and Cloud for Smart System and Application”
11	Webinar	4/06/2020	Government Arts College - Coimbatore - 18	“Online Teaching Etiquette”
12	Webinar	30/06/2020	Francis Xavier Engineering College - Tirnelveli	“Energy Efficiency in Wireless Sensor Network”
13	Webinar	04/07/2020	CMS College of Science and Commerce - Coimbatore	“Data Science”
14	One Day E-Symposium	17/06/2020	Christ Deemed to University – Bangalore	“ha Trends in Computing”
15	Faculty Development Program	12/06/2020	Chikkanna Government Arts College, Tirupur -02	“Moodle: A Quick Tour”
16	Webinar	20/06/2020	Sri Vinayaga College of Arts and Science	“Software Development Life Cycle”
17	Faculty Development Program	21/07/2020 - 23/07/2020	Vikas Group of Institution – Krishna District – A.P - India	“Machine Learning with Dimensionality Reduction”
18	The Knowledge Enrichment Program	18/07/2020	Dr. SNS Rajalakshmi College of Arts and Science - Coimbatore	“What’s the Big Data”
19	Webinar	09/07/2020	Dr. SNS Rajalakshmi College of Arts and Science - Coimbatore	“An Extensive Overview of Digital Image Inpainting”
20	Webinar	24/06/2020	Dr. SNS Rajalakshmi College of Arts and Science - Coimbatore	“Impact of Covid – 19 on Information Technology”
21	Webinar	02/07/2020 – 24/07/2020	Panimalar Institute of Technology – Chennai -600123	“Hands – on Workshop on Android App Development”
22	Faculty Development Program	13/07/2020 – 17/07/2020	NITTE Education Trust N.M.A.M. Institute of Technology - Karnataka	“ Mobile App Development and Artificial Intelligence with MIT App Inventor”
23	Faculty Development Program	17/06/2020- 25/06/2020	Sree Narayana Guru College – Coimbatore - 641105	“Learning Pedagogy on Teaching and Assessment Tools”

24	E-Quiz	07/07/2020-11/07/2020	Government Arts College - Coimbatore - 18	“The E-Quiz on “E-Connections””
25	Webinar	28/07/2020	Coimbatore Institute of Technology - Coimbatore – 641014	“Cloud and DevOps”
26	National Level Webinar	20/06/2020	Arignar Anna Institute of Science and Technology, Arignar Anna Institute of Management Studies and Computer Applications – Chennai - 602117	“Cloud Computing Technology”
27	Faculty Development Program	06/07/2020–10/07/2020	Periyar Government Arts College – Cuddalore - 1	“Digital Tools For conducting Virtual Classes”
27	Unlock Webinar Series	18/07/2020-20/07/2020	K.S. Rangasamy College of Technology – Tiruchengode – 637215	“Data Science and Machine Learning”
28	30 Hours skill certificate Course	01/02/2021	Bharathiar University – Coimbatore - 641046	“Programming Skill Development Using R and Python”
29	Webinar	22/06/2020	Arignar Anna Government Arts College Cheyyar - 604407	“Plagiarism In Research”
30	Webinar	29/06/2020 & 30/06/2020	Angappa College of Arts and Science – Coimbatore -105	“Machine Learning”

APPENDIX – E

Membership of Professional Bodies, Societies, Editorship of Journals etc.

S.No	Name of the Professionals/Learned bodies/Societies
1	Serving as a Member of Board of Studies, Dr.SNS College of Arts and Science, Coimbatore.
2	Serving as a Member of Board of Studies, Hindustan College of Arts and Science, Coimbatore.
3	Serving as a Member of Board of Studies, Dr.NGP College of Arts and Science, Coimbatore.
4	Member of Board of Studies, GAC, Coimbatore.
5	Serving as a Member of Board of Studies, GVG Arts and Science College, Udumalpet.
6	Served as a Member of Academic council, PSG College of Arts & Science, Coimbatore.
7	Served as a Member of Board of Studies, Sri Saraswathy Thiagaraja college, Coimbatore.
8	Served as a Member of Board of Studies, Krishnammal College for Women, Coimbatore.
9	Served as Chairperson of Board of Studies, PSG College of Arts & Science, Coimbatore.
10	Served as a coordinator of CEC-UGC, Delhi for Econtent Development, PSG College of Arts & Science, Coimbatore.
11	Served as Member of Typewriting Exemption Committee, PSG College of Arts & Science, Coimbatore.
12	Member of International Association of Computer Science and Information Technology, Singapore.
13	Member of International Association of Engineers, Canada.
14	Member of Computer Society of India, Coimbatore.