

Dr.M.RAMASWAMI

Professor,

Department of Computer Applications

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Madurai Kamaraj University

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<https://vidwan.inflibnet.ac.in/profile/301677>



1. Personal Details

Date of Birth & Age : 14-02-1966 & 56 Years
Gender & Marital Status : Male & Married
Community : BC
Nationality : Indian
Place of Birth : Pollachi

2. Educational Qualifications

2.1. Academic

Degree/ Examination	Name of the Exam	University/ Institute	Year of Passing	Percentage/ Grade	Main Subject
Under Graduate	B.Sc	Bharathiar University	1986	First	Mathematics
Post Graduate	M.Sc	Bharathiar University	1988	First	Mathematics
Post Graduate Diploma	PGDCA	Bharathiar University	1989	First	Computer Applications
Post Graduate	M.C.A	Madurai Kamaraj University	1998	First	Computer Applications

2.2. Research

Degree	Name of the University	Title of the Thesis	Date of Submission	Date of Award
PhD	Madurai Kamaraj University	Students Performance Prediction Models : A Data Mining Approach	25-03-2010	20-09- 2010
MPhil	Manonmaniam Sundaranar University	Design of Stack Filter using Genetic Algorithms	21-05-2003	May 2003

3. Post-Doctoral/ Research Associate / Industrial Experience

Name of the University / Institute / Industry	Period of Work	Nature of Work

4. Professional Experience

No	Name of the University / Institution	Position Held	From (Date)	To (Date)

5. Teaching

No	Year	Semester	Course Code	Course Title	Hours per Week
1	2022-23	I	MCA-I Year	Advanced Database Management Systems	3 + 3
	2022-23	I	MCA-I Year	Advanced Database Management Systems	6

6. Design/Development of New Curricula and Courses

No	Description	Organization for which it was Developed	Level (PG/UG)
1	Introduction of new program- M.Phil Computer Science - 2003	Directorate of Distance Education	M.Phil
2	Design and Development of Diploma in Computer Applications (DCA)	Directorate of Distance Education	UG
3	Design and Development of Bachelor of Computer Applications (BCA)	Directorate of Distance Education	UG
4	Development of new Curricular for M.Sc Data Science	Periyar University	PG
5	Development of new Curricular for B.Voc(VR and AR)	Periyar University	UG

7. Creation of ICT Mediated Teaching-Learning Pedagogy

7.1. SWAYAM / MOOCs

No	Description	Organization for which it was Developed	Level (PG/UG)

7.2. E-Contents

No	Description	Organization for which it was Developed	Level (PG/UG)

7.3. Development of other ICT Mediated Teaching-Learning Pedagogy

No	Description	Organization for which it was Developed	Level (PG/UG)
1	Developed ICT based Content for Data Mining	Dept. of Computer Applications, Madurai Kamaraj University, Madurai	PG
2	Developed ICT based Content for Operating System	Computer Centre, Madurai Kamaraj University, Madurai	PG
3	Developed ICT based Content for Relational Database Management Systems	Dept. of Computer Applications, Madurai Kamaraj University, Madurai	PG
4	Developed ICT based Content for Advanced Database Management Systems	Dept. of Computer Applications, Madurai Kamaraj University, Madurai	PG
5	Developed ICT based Content for Soft Computing	Dept. of Computer Applications, Madurai Kamaraj University, Madurai	PG
6	Developed ICT based Content for Artificial Intelligence and Neural Network	Dept. of Computer Applications, Madurai Kamaraj University, Madurai	PG

8. Research Specialization / Field of Research

- Data Mining
- Networks
- IoT
- Human Computer Interaction (HCI)

9. Research Publications

Type	International	National
Papers Published in UGC-CARE Listed Journals	24	
Papers in Refereed Journals (Not mentioned above)	17	
Books Published		1
Books Edited		
Contributions to Book Chapters		4
Editor of Conference/Seminar Proceedings		
Papers Published in Conference/Seminar Proceedings	4	4
Papers Presented in Conferences/Seminars	20	10
Conference/Seminar/Workshop Attended		
Deposits in CCDC, PDB, etc.		

10. Citation Metrics

Cumulative Impact Factor (Recent Annual JCR)	
Total Citations (Scopus/Web of Science)	645
h-Index (Scopus/Web of Science)	8
g-Index (Scopus/Web of Science)	
i10 Index (Scopus/Web of Science)	8

11. Details of Patents

1. Girija. M, Manickam. P, Ramaswami. M.,(2022), An Embedded Prime LightWeight Block Cipher for Smart Devices, Application No.: 202241027248 A, Date of filing of Application :11/05/2022, Publication Date: 17/06/2022

12. Research Guidance/Supervision

Degree / Programme	Completed	Submitted	Ongoing
PhD (Full-time)	1		1
PhD (Part-time)	7		4
MPhil Research Project (Full-time)	19		-
MPhil Research Project (Part-time)	49		-
MSc /MCA Projects/Dissertation			
MSc Internships/Summer or Winter Projects			

13. Funded Research Projects

13.1. Ongoing

No	Title of the Project	Funding Agency	Period / Duration	Total Grants Sanctioned (Rs)
1	Design, Development and Deployment of Student's Performance based Prediction Models for the enhancement of Academic Achievement of Higher Secondary Students (Ref: F-No. 41-1353/2012(SR) dated 30-07-2012)	UGC	2012-2014	2.00 Lakhs
2	Centre of Excellence in Computational Intelligence and Data Analytics (F-No.55/RUSA/MKU/2021-2022)	RUSA	2021-2023	40.00 Lakhs

13.2 Completed

No	Title of the Project	Funding Agency	Duration and Month & Year of Completion	Total Grants Received (Rs)	No of Papers out of Project
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1	Design, Development and Deployment of Student's Performance based Prediction Models for the enhancement of Academic Achievement of Higher Secondary Students (Ref: F-No. 41-1353/2012(SR) dated 30-07-2012)	UGC	2012-2014	2.00 Lakhs	2
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14. Reviewer in Journals

Name of the Journal	Publisher	No of Papers Reviewed
International Journal of Computational Intelligence and Informatics	Periyar University	12

15. Research Collaborations

Name of the Collaborator	Institute	Collaboration Details

16. Countries Visited

Name of the Country	Period	Purpose

17. Honours / Awards / Recognitions

Name of the Honours / Awards / Recognition	Awarding Agency	International / National / State / Institute Level
Best Associate Professor Award	PEARL Foundation-2016	National

18. Conferences / Seminars / Workshops Organized

Level	Conference Title	Date(s)	Place	Role Played	Funding
Workshop	Research Methodology in Computer Science	16-12-2016	Madurai Kamaraj University	Organizing secretary	UGC-CDC

19. Invited Lectures / Resource Person

No	Institute / Organizer	Name of the Conference / Seminar / Workshop	International / National / State / Institute Level	Date(s)
1	Govt. Arts College,	Employment Opportunities in	Institute Level	10-12-2016

	Melur	IT Enabled Service -Carrier Counselling Cell		
2	CPA College, Bodinayakanur	Job Opportunities for Undergraduate Students in IT Industry - State Level Intercollegiate Meet(BOOT'12)	State Level	01-03-2012
3	PARVATHY'S Arts College & Science College, Dindigul	Inauguration of Computer Science Association	Institute Level	11-10-2012
4	Thiagarajar College, Madurai	Rough Sets in Data Mining - Intercollegiate Student's Seminar	State Level	10-03-2015
5	CPA College, Bodinayakanur	Big Data Analytics -Workshop on BIG DATA ANALYTICS (BDA-2016)	State Level	16-09-2016
6	Fatima College, Madurai	Introduction Big Data Analytics - Intercollegiate Technical Meet (TECHMEET 2016-17)	State Level	24-08-2016
7	ANJA College, Sivakasi	Perspectives of Data Mining Techniques with R - FDP Programme on Contemporary Research Issues in Computer Science and Engineering	State Level	04-09-2017
8	Madurai Sivakasi Nadars Pioneer Meenakshi Womens's College, Sivaganga	Data Mining and Its Applications - FDP Programme on Computer Science	Institution Level	23-09-2016
9	SNMV college of Arts And Science, Coimbatore	National Conference on "Next Gen-X Computer Applications	National Level	10-02-2016
10	Academic Staff College, Madurai Kamaraj University, Madurai	Refresher Course in Library Science	National Level	19-02-2014
11	Periyar University, Salem	Conference on Pattern Recognition, Informatics and Medical Engineering (PRIME-2012)	International Level	22-03-2012
12	PSNA College of Engineering and Technology-Dindugal	Conference on Computing, Communication and Applications (ICCCA – 2012)	International Level	22-02-2012
13	Periyar University, Salem	Conference on Pattern Recognition, Informatics and Medical Engineering (PRIME-2012)	International Level	21-02-2013

20. Professional Development Programs / Faculty Development Programs Organized

Name of the Program	Role	Place	Date(s)	Funds in Rs & Sponsor

21. Professional Development Programs / Faculty Development Programs Attended

Name of the Program	Place	Date(s)	Sponsor
Orientation Program	Madurai Kamaraj University, Madurai	17-02-1999 to 16-03-1999.	UGC
Refresher Course on Qualitative Research	Gandhigram Rural Institute, Dindigul	24-05-2001 to 13-06-2001	UGC
Refresher Course on Computer Science	Academic Staff College, Jawaharlal Nehru University, New Delhi	12-08-2002 to 06-09-2002	UGC
Refresher Course on Bio-Informatics	Academic Staff College, Bharathiar University, Coimbatore	10-02-2004 to 01-03-2004	UGC
Workshop on Advanced Data Structures and Algorithms	Tapar University, Patiala, India.	04-06-2012 to 15-06-2012	IEEE
Workshop on Big Data Analytics	Bharathiar University, Coimbatore	04-06-2016 to 15-06-2016	UGC
Faculty Residency program on Big Data	IBM, Bangalore	18-06-2014 to 20-06-2014	IBM

22. Administrative Experiences

Role Played	Responsibilities	Period (from ... to)
Additional Controller of Examination Madurai Kamaraj University	Coordinating and Conducting Examinations for DDE Programmes	01-09-2020 to 26-10-2021
Director Directorate of Distance Education Madurai Kamaraj University	Coordinating and Conducting DDE ODL and OL Programmes	02-11-2020 to 13-10-2022
Special Officer(Planning and Development)	Endowments Project planning Institutional Development	13-10-2022 onwards

23. Membership in Academic Bodies

Name of the University / Institute / College	Type of Membership	Duration / Period
Periyar University, Salem	Chairman, PG Computer	2016 to 2018

	Science Question Paper Setting Board	
Yadava College, Madurai	University Nominee for UG Board of Studies	2016 to 2018
EMG Yadava Women's College, Madurai	University Nominee for UG Board of Studies	2016 to 2018
Nehru Arts and Science College, Coimbatore	Subject Expert for Board Studies of Computer Science	2016 to 2018
Theivanai Ammal College for Women, Villupuram	Expert Member for Board of Studies	2016 to 2017
KSR College of Arts and Science, Tiruchencode	University Nominee for Board of Studies in Computer Science	2012 to 2013
Saraswathy Thyagaraja College, Pollachi	Expert Member for PG Board of Studies	2013 to 2015
ANJA College, Sivakasi	University Nominee for PG Board of Studies in Computer Science,	2002 to 2003
NGM College, Pollachi	Expert Member for Board of Studies in Computer Science	2014 to 2015
NGM College, Pollachi	University Nominee for PG Board of Studies in Computer Science	2020 to 2022
Saraswathy Thyagaraja College, Pollachi	Member for Board of Studies in Computer Science(BCA)	2019 to 2020
Periyar University, Salem	Member for M.Sc(Computer Science) and M.Sc(Data Science)	2022 to 2023
Periyar University, Salem	Member for B.Sc(Artificial Intelligence)	2022 to 2023
Fathima College, Madurai	Member for Board of Studies in PGDCA	2021 to 2023
VVV College for Women, Viruthunagar	Member for Board of Studies in Computer Science	2021 to 2023
MTN College, Madurai	Member for Board of Studies in Post Graduate Diploma in Cyber Security	2021 to 2023
NMS SVN College, Madurai	Member for Board of Studies in UG & PG Computer Science	2021 to 2023
Sri Meenakshi Govt. Arts College for Women, Madurai	Member of Board Studies for B.Sc and M.Phil	2021 to 2023
Hajee Karutha RowtherHowdia College, Uthamapalayam	University Nominee of Academic Council	2022 to 2023
NMS SVN College, Madurai	University Nominee of Academic Council	2022 to 2023
Gandhigram Rural Institute, Dindugal.	Member, Doctoral Committee	2020 to 2022
Saraswathi Thyagaraja College, Pollachi.	Member, Doctoral Committee	2017 to 2020

Mother Teresa University, Kodaikanal.	Member, Doctoral Committee	2019 to 2021
Alagappa University, Karaikudi	Member, Doctoral Committee	2020 to 2022
Anna University, Chennai (A.Pandiaraj," Neural Network Based Approach for Sentiment Classification on Newspaper Reviews)	External Examiner, PhD Viva-Voce Board	10-02-2022
Dr.N.G.P. Arts & Science College, Bharathiar University, Coimbatore (Mangani K P, A Crop Insurance Recommendation model for Payout Estimation Based on Seasonal Weather Data using Machine Learning Techniques)	External Examiner, PhD Viva-Voce Board	08-06-2022
Bharathiar University, Coimbatore (Sherin. A,Design and Development of Computational Intelligence Techniques for Diagnosis of Alzheimer's Disease using Brain Images)	External Examiner, PhD Viva-Voce Board	25-05-2022
Bharathiar University, Coimbatore (Ramya. P, Design and Development of Methodologies Human Action Recognition in Videos using Machine Learning Techniques)	External Examiner, PhD Viva-Voce Board	28-02-2022
Sree Saraswathi Thyagaraja College(A), Bharathiar University, Coimbatore (Saranya.N, Sentimental Classification of Online Reviews using Supervised Machine Learning Approaches)	External Examiner, PhD Viva-Voce Board	28-01-2022
Nehru College of Arts & Science, Bharathiar University, Coimbatore (Gnanapriya. S,Performance of Reliable Classifiers and Ant Colony Optimization Techniques for Cross Domain Opinion Mining in Sentiment Analysis)	External Examiner, PhD Viva-Voce Board	22-11-2021
Bharathiar University, Coimbatore (Deepa. A, Efficient Classifiers for Text Documents using Keyword Extraction Method)	External Examiner, PhD Viva-Voce Board	29-04-2021

Periyar University, Salem (Prabhu .S, Abnormal Chromosome Identification using Hybrid Image Segmentation Method)	External Examiner, PhD Viva-Voce Board	25-02-2021
Periyar University, Salem (Sathish. S, Efficient Route Discovery Mechanism for DSR Protocol using Computational Intelligence Techniques)	External Examiner, PhD Viva-Voce Board	29-01-2020
Anna University, Chennai (Meera.S, Hybrid Selection in High Dimensional Data)	External Examiner, PhD Viva-Voce Board	19-11-2020
Bharathiar University, Coimbatore (Sukanya. A, Design and Development of an Effective Methodology using Vesselness Measure for Coronary Artery Segmentation and Calcium Quantification)	External Examiner, PhD Viva-Voce Board	30-09-2020
Bharathiar University, Coimbatore (Boopathy. D, Enhanced Security Model for Cloud Storage using Multidimensional Encryption Techniques)	External Examiner, PhD Viva-Voce Board	24-01-2020
Bharathiar University, Coimbatore (Manikandan. P, "Novel Approaches for Analysis of Protein Sequences and Protein Interaction Networks) -641 105, Public Viva-Voce Conducted on 11-10-2019.	External Examiner, PhD Viva-Voce Board	11-10-2019
Bharathiar University, Coimbatore (Ranjani Rani. R, Function Prediction Analysis of Brewer's Yeast by Aligning the Protein Sequence, Structure and Network)	External Examiner, PhD Viva-Voce Board	12-07-2019
Bharathiar University, Coimbatore (P.M. Nishad, A Novel Approach to Reduce computational complexity of Multiple dictionary LEMPEL ZIV WELCH (MDZLW) using Indexed K Nearest Twin Neighbour (IKNTN) Clustering and binary Insertion Sort Algorithms)	External Examiner, PhD Viva-Voce Board	25-03-2015

Mother Teresa Womem's University, Kodaikanal (P.Shanthi Devi, Wavelet Based Polyomino Compression Technique for High quality Image Transmission in Wireless Network)	External Examiner, PhD Viva-Voce Board	28-10-2015
M.S University, Tirunelveli (R.Sudhir, Investigations on content Based Image Retrieval by combining Color, Texture and Shape with Relevance Feedback)	External Examiner, PhD Viva-Voce Board	13-10-2014
Periyar University, Salem, (S.Nithya Rekha, An Enhanced Flooding in Fisheye State Routing Protocol for Manet-Grid using fuzzy and Rough Set Approaches)	External Examiner, PhD Viva-Voce Board	10-02-2014
M.S University, Tirunelveli, (C. Chandrasekar, Security Enhanced Adhoc On-Demand Multipath Distance Vector Routing for Voice Over Internet Protocol)	External Examiner, PhD Viva-Voce Board	11-08-2013
PRIST UNIVERSITY, Thanjavor (U. Sajeev, On Certain Patterns of Self Help Group Data Using Clustering Approach)	External Examiner, PhD Viva-Voce Board	11-09-2013
M.S University, Tirunelveli (M.C. Loraine Charlet Annie, Frequent Itemset Mining Based on Binary Data Clustering)	External Examiner, PhD Viva-Voce Board	21-08-2013
B.S.Abdur Rahman University, Chennai (M.P.Sivaram Kumar, Grid Based Path Planning Algorithms for Extinguished Forest Fires)	External Examiner, PhD Viva-Voce Board	29-07-2013
Mother Teresa Womem's University, Kodaikanal (F.Paulin,Diagnosis of Breast Cancer using Neural Networks)	External Examiner, PhD Viva-Voce Board	30-11-2012
Bharathidasan University, Tiruchirapalli (L.Ravi,A Study on Ontology Mediation Based on Conceptual Graphs And Ontology Abstract Machines)	External Examiner, PhD Viva-Voce Board	30-06-2012

24. Membership in Recognised Professional Bodies

Name of the Professional Body	International / National	Type of Membership
Indian Science Congress	National	L27005 -Lifetime

25. Languages Known

Languages	Read	Write	Speak
Tami	Yes	Yes	Yes
English	Yes	Yes	Yes

26. Competence in Computer Applications

More than five years Technical Experience in software design and development. Served as a member in various technical committees for purchase of Hardware and procuring software etc.,

27. Involvement in Extension Activities other than Academic Works

I began my career as a programmer in the UGC-funded Computer Centre at Madurai Kamaraj University, where I was involved in the automation of University Examination Processing, which saved the university 35 lakhs per year in expenses.

I was also involved in the automation of university activities and handled the UGC-sponsored PBDCSA, MCA programme. Following that, I was deputed to the Directorate of Distance Education and introduced many Computer Science courses such as BCA, MCA, B.Sc. (Computer Science), and M.Phil. (Computer Science), for which seven lesson materials were written. Participated and served as a member in all technical committees for campus-wide internet connectivity and computer purchases.

A new conventional M.Phil. in Computer Application programme was introduced in 2012 in the former computer centre, and as a board member, I helped to design the curriculum for numerous computer courses in affiliated colleges. Granted affiliation for many computer science courses in the colleges while I was a member of the Inspection Committee.

From 01-09-2020 to 26-10-2022, I was the Additional Controller of Examination. During the pandemic, two terminal examinations for DDE Courses were successfully conducted online across the country. In addition, online examination application registration was also introduced, with the option of automatic generation of hall tickets for all successfully registered candidates. Furthermore, all examination fee payments were made using a payment gateway.

An effective grievance mechanism for DDE students was developed, and information on all unclaimed certificates was posted to the website. Over 5000 grievances were resolved during that time period.

In addition, on November 1, 2020, I took over as Director(i/c), Directorate of Distance Education, Madurai Kamaraj University. Madurai Kamaraj University was accredited with A++ by the NAAC under the capable administration of then Vice-Chancellor, and was later classified as a Category-I university by the UGC. According to UGC-DEB guidelines, 22 new UG and PG ODL programmes were introduced. In addition, the Directorate of Distance Education successfully launched its online admissions through the SAMARTH Portal, an ERP software designed and developed by the University of Delhi (South Campus) as part of the National Mission in Education through ICT, MoE, New Delhi, and MKU is the first state

university in India to use that ERP software for free. Steps are being taken to integrate the new Learning Management System (LMS) with the existing SAMARTH portal for our Online programmes. Also an MoU with Consortium for Educational Communication (CEC) was signed to share all its e-content for DDE online courses.

During my tenure as Director(i/c), approximately one crore rupees were collected as long pending student fee dues from previously closed admission centres.

Under my supervision, I successfully guided 9 PhD candidates and over 70 MPhil candidates. In addition, two projects totalling 45 lakhs were executed.

28. Any Other Relevant Information

Details of Publications

1. Books Published

Ramaswami. M, 2010, **Educational Data Mining: A Case Study on Prediction Models**, Flex Vector, Chennai, India.

2. Books Edited

3. Contribution to Book Chapters

4. Editor of Conference/Seminar Proceedings

5. Research Publications

5.1. UGC-CARE Listed Journals

1. FibGeoPresent: A Highly Secured and Geographic Coordinate System Based Authenticated Lightweight Block Cipher for Smart System, Girija. M, Manickam. P, Ramaswami. M, *Wireless Pers Communication*, 2021, pp. 1-18.
2. PriPresent: An Embedded Prime Lightweight Block Cipher for Smart Devices, Manickam. P, Girija. M, Ramaswami. M, *Peer-to-Peer Networking & Applications*, 2021, Vol. 14(4), pp. 2462-2472.
3. Eye-Tracking Evaluation of Age-Related Differences in User Behaviour on Mobile Applications, Ramaswami Murugesh, Antony Williams, *Journal of Scientific Research*, 2021, Vol.65(1), pp.214-221.
4. Implementation Of Bio-Inspired Algorithms On Students Performance Prediction In Cloud Computing Environment, Rajathi. M, Ramaswami. M, *International Journal of Multidisciplinary Educational Research (IJMER)*, 2021, Vol. 10(4), pp. 77- 87.
5. Comparative Study of Binary Classification Algorithms to Analyze the Students' Performance on Virtual Machine, Rajathi. M, Ramaswami. M, *International Journal of Science and Research (IJSR)*, 2021, Vol.10(4), pp. 300-304.
6. A Perusal Analysis on Hybrid Spectrum Handoff Schemes in Cognitive Radio Networks, Josephine Dhivya. J, Ramaswami. M, *Intelligent Systems Design and Applications*, 2020, pp 312-321.
7. A Novel Prediction of Diabetes by Automatic Insulin Therapy Using Machine Learning Algorithm, Ramaswami. M, VinothKumar. V, *International Journal of Computer Sciences and Engineering*, 2020, Vol.8(3), pp.18-23.
8. An Enhanced IoT Based Approach Using Adaptive Neuro Fuzzy Inference System for Continuous Glucose Monitoring and Control Insulin for patient specific treatment, Ramaswami. M, VinothKumar. V, *Journal of Sambodhi*, 2020, Vol.43(3).

9. Potential Eye Tracking Metrics and Indicators to Measure Cognitive Load in Human-Computer Interaction Research, Ramaswami. M, Antony Williams, J.2020, *Journal of Scientific Research*, 2020, Vol.64(1), pp.168-175.
10. DIBPresent: A Dynamic Integer Based Light Weight Cryptography for Resource Constrained Devices, Manickam. P, Girija. M, Ramaswami. M, *International Journal of Advanced Science and Technology*, 2020, Vol. 29(8s), pp.721-729,
11. Wireless Body Area Network with Enhanced Identification, Optimal storage and Security for Integrated Healthcare Systems, Ramaswami. M, VinothKumar. V, *International journal of Advanced Trends in Computer Science and Engineering*, 2019, Vol. 8(3), pp.847-853.
12. Comprehensive Analysis on Lightweight Cryptographic Algorithms for Low Resource Device, Manickam. P, Girija. M, Ramaswami. M, *TEST Engineering and Management*, 2019, Vol. 81, pp. 3747-3760.
13. Two-Phase Stacking Ensemble to Effectively Handle Data Imbalances In Classification Problems, Ramaswami. M, Madasamy. K, *International Journal of Advanced Research in Computer Science*, 2018, Vol. 9(1), pp.908-913.
14. Ingenious Method for Conducive Handoff Appliance in Cognitive Radio Networks, Josephine Dhivya. J, Ramaswami. M, *International Journal of Electrical and Computer Engineering (IJECE)*, 2018, Vol. 8(6). pp. 5195-5202.
15. Data Imbalance and Classifiers: Impact and Solutions from a Big Data Perspective, Madasamy. K, Ramaswami. M, *International Journal of Computational Intelligence Research*, 2017, Vol. 13(9), pp. 2267-2281
16. Internet of Medical Things (IoMT) using Hybrid Security and Near Field Communication (NFC) Technology, Vinoth Kumar. B, Ramaswami. M, Swathika. P, *International Journal of Computer Applications*, 2017, Vol. 174(7), pp. 37-40.
17. Data Security on Patient Monitoring for Future Healthcare Application, Swasthika. P, *International Journal of Computer Applications*, 2017, Vol. 163(6), pp. 20-23.
18. A Study on Quantitative Parameters of Spectrum Handoff in Cognitive Radio Networks, Josephine Dhivya. J, Ramaswami. M, *International Journal of Wireless & Mobile Networks*, 2017, Vol.9, pp. 31-38.
19. IPv6 based Patient Monitoring Architecture for Future Healthcare Application, Ramaswami. M, VinothKumar. V, *International Journal of Computer Science and Information Security*, 2016, Vol. 14(10), pp. 264-268.
20. Cognitive Modeling in Human Computer Interaction for Aging: Prior Experience and Perception of Technology – A Pilot Study, Ramaswami. M, Antony Williams. J, *International Journal of Computing, Communications & Instrumentation Engg. (IJCCIE)*,2017, Vol. 4(1), pp.34 -39.
21. Cognitive Modeling in Human Computer Interaction: Understanding Technology Usage in Elderly People, Ramaswami Murugesh, Antony Williams. J, *IEEE Explore*, 2016, pp.115-120.

22. Analysis of Handoff Parameters in Cognitive Radio Networks on Coadunation of Wifi and Wimax Systems, Josephine Dhivya. J, Ramaswami. M, *IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM)*, IEEE Digital Library, 2017, pp. 190-194.
23. A CHAID Based Performance Prediction Model in Educational Data Mining, Ramaswami. M, Bhaskaran. R, *IJCSI International Journal of Computer Science Issues*, 2010, Vol. 7(1), pp. 10 - 18.
24. A Study on Feature Selection Techniques in Educational Data Mining, Ramaswami. M, Bhaskaran. R, *Journal of Computing*, 2009, Vol. 1(1), pp. 7 - 11.

5.2. Other Refereed Journals

25. Parallel Heterogeneous Voting Ensemble for Effective Classification of Imbalanced Data, Ramaswami. M, Madasamy. K, *International Journal of innovative Research in Science, Engineering and Technology*, 2018, Vol 7(8), pp.9065- 9070.
26. SVM and Fuzzy SVM Based Opinion Mining In Tamil Using R, Sharmista. A, Ramaswami. M, *American Journal of Engineering Research (AJER)*, 2018, Vol.7(4), pp-45-53.
27. Rough Fuzzy Support Vector Machine Based Opinion Mining in Tamil Using R, Sharmista. A, Ramaswami. M, *Journal of Emerging Technologies (JETIR)*, 2018, Vol. 5(5), pp: 1075-1080
28. Stacked Ensemble in Predicting Stock Trend of Three Major Capitalization Companies of NSE, Sharmila Vaiz. J, Ramaswami. M, *Journal of Emerging Technologies (JETIR)*, 2018, Vol. 5(5), pp: 459-466.
29. Markov Decision on Data Backup Scheduling for Big Data, Madasamy. K, Elango. C, Ramaswami. M, *International Journal of Computational Intelligence and Informatics*, 2018, Vol. 7(4), pp. 207-216.
30. Hybrid Model to Forecast Stock Trend Using Support Vector Machine and Neural Networks, Sharmila Vaiz. J, Ramaswami. M, *International Journal of Engineering Research and Development (IJERD)*, 2017, Vol. 13(9), pp: 52 -59.
31. Rough Set Based Opinion Mining in Tamil, Sharmila Vaiz. J, Ramaswami. M, *International Journal of Engineering Research and Development (IJERD)*, 2017, Vol. 13(9), pp: 43-51.
32. Performance Evaluation of Word Frequency Count in Hadoop Environment, Ramaswami. M, Madasamy. K, *International Journal of Innovative Research in Science, Engineering and Technology*, 2017, Vol. 6(6), pp.11847-11857.
33. Hadoop-Based Word Count Simulation on Amazon Cloud, Ramaswami. M, Madasamy. K, *International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering*, 2017, Vol. 5(7), pp. 51-56.

34. A Panorama of Big Data Analytics with Hadoop, Madasamy. K, Ramaswami. M, *International Journal of Computational and Applied Mathematics (IJCAM)*, 2017, Vol.12(1), pp. 646 – 660.
35. A Study on Technical Indicators in Stock Price Movement Prediction Using Decision Tree Algorithms, Sharmila Vaiz. J, Ramaswami. M, *American Journal of Engineering Research(AJER)*, 2016, Vol.5(12),pp. 207 -212.
36. Forecasting Stock Trend Using Technical Indicators With R, Sharmila Vaiz. J, Ramaswami. M, *International Journal of Computational Intelligence and Informatics*, 2016, Vol. 6(3), pp. 206 -219.
37. Tree Based Opinion Mining in Tamil for Product Recommendations Using R, Ramaswami. M, Sharmista. A, *International Journal of Computational Intelligence and Informatics*, 2016, Vol. 6(2), pp.108-116.
38. Hybrid Prediction Models of Stock Market, Ramaswami. M, Damayanthi. R, *International Journal of Innovative Research and Advanced Studies*, 2016, Vol. 3(8), pp. 427-435, pp.103-108.
39. Analysis of Classification Techniques for Mining Reviews Using Lexicon and WordNet Using R, Ramaswami. M, Sharmista. A, *International Journal of Computational Intelligence and Informatics*, 2015, Vol. 5(2), pp.103-108.
40. Validating Predictive Performance of Classifier Models for. Multiclass Problem in Educational Data Mining, Ramaswami. M, *IJCSI International Journal of Computer Science Issues*, 2014, 11(5), pp. 80-90.
41. Student Performance Prediction Modeling: A Bayesian Network Approach, Ramaswami. M, Rathinasabapathy. R, *IJCCI International Journal of Computational Intelligence and Informatics*, 2012, Vol. 1(4), pp. 231- 235.
42. The use of enhanced continuous glucose monitoring approach and control algorithm for patient specific insulin treatment, Vinothkumar. B, Ramaswami. M, *Journal of Information and Computational Science*, 2020, Vol. 10(3), pp. 930-946.

5.3. Papers Published in Conference Proceedings

43. Ramaswami .M, Josephine Dhivya. J, (2017),” **Analysis of Handoff Parameters in Cognitive Radio Networks on Coadunation of Wifi and Wimax Systems**”, IEEE International Conference on *Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM)*, Veltech Dr.RR& Dr.SR University, Chennai, Tamil Nadu, India, August 2nd to 4th 2017, pp.190-194.
44. Ramaswami, M and Antony Williams, J. (2017),“**Cognitive Modeling in Human Computer Interaction for Aging: Prior Experience and Perception of**

Technology – A Pilot Study”, 4th International Conference on *Computer, Control and Communication Technologies (CCCT-17)*, 5-7 January 2017, Kuala Lumpur (Malaysia), pp. 97 -104.

45. Ramaswami, M and Antony Williams, J. (2016), ” **Designing AI-Based Cognitive Model for Aging: Prior experience and Perception of Smart Devices A Pilot Study**”, *National Conference on Advanced Computing (NCAC-2016)*, Bharathiar University, Coimbatore, pp. 285-289.
46. Ramaswami, M. and Rathinasabapathy, R. (2012), “**A Framework for Clustering Multidimensional Data Using Various functions**”, *Proceedings of International Conference on Mathematical Modeling and Applied Soft Computing*, Coimbatore Institute of Technology, Coimbatore, pp. 799 -803.
47. Ramaswami, M., Christy Eunaicy, J. I and Jeba Rajasekar, R. V. (2012), “**Cluster Analysis: A Case Study of Air Quality in an Urban Atmosphere**”, *Proceedings of National Seminar on Geospatial Technology for Resource Evaluation and Management*, Madurai Kamaraj University, Madurai, pp.307 - 313.
48. Ramaswami, M. and Bhaskaran, R. (2009), “**An Effect Feature Selection Techniques in Student Performance Prediction models: A Case Study**”, *Advances in Computer Science and Engineering, Macmillan, Proceedings of 2nd International Conference on Data Management (ICDM-09)*, Institute of Management Technology, New Delhi, pp. 175 – 181.
49. Ramaswami, M. and Bhaskaran, R.(2008), “**Student Performance Forecasting: A Comparative Study of Classification Models,**” *Intelligent Computing Models*, Narosa Publishing House, *Proceedings of National Conference on Intelligent Computing Models (NCICM-08)*, India, pp. 38- 45.
50. Ramaswami, M. and Bhaskaran, R.(2008), “**Building Bayesian Network Model for Student Performance Forecasting,**” *Proceedings of National Conference on Computer Science and Applications (NCCSA-08)*, Mepco Schlenk Engineering College, Sivakasi, pp. 106 – 110.

5.4. Papers Presented in Conferences / Seminars

5.4.1. International

51. Ramaswami. M, Antony Williams. J, Senior Citizens Usage Towards and Perception of Modern Technology in India, International Conference on Human Aspects of IT for the Aged Population (ITAP 2018), Las Vegas, NV, USA, 15-20 July, 2018.
52. Ramaswami. M, Antony Williams. J, Cognitive Modeling in Human Computer Interaction for Aging: Prior Experience and Perception of Technology – A Pilot Study, 4th International Conference on Computer, Control and Communication Technologies (CCCT-17), Kuala Lumpur (Malaysia), 5-7, January, 2017.

5.4.2. International held within India

53. Girija. M, Ramaswami. M, An Emphatical Analysis on Impacts of Lightweight Cryptography Algorithms on Different Smart Devices, International Conference on Artificial Intelligence and Information Technology (ICAIIT), Hindustan College of Arts and Science, Coimbatore, 29th September, 2021.
54. Ramaswami. M, Antony Williams. J, Eye Tracking to Understand Impact of Ageing on Mobile Phone Applications, 8th International Conference on Research into Design, IDC School of Design, IIT, Bombay, India, 7-10 January 2021.
55. Girija. M, Ramaswami .M, Industry 4.0: Data Security Challenges and Research Directions, International Conference on Digital Transformation, The American College, Madurai, 5-6 March 2020.
56. Vinothkumar. B, Ramaswami. M, A Review on Diabetics Identification using Time Series Analysis in Machine Learning Classification Technique for Healthcare Systems, International Conference on Innovations in Engineering Science and Technology, Kalasalingam Institute of Technology, Krishnankoil, 12 -13 March, 2020.
57. Ramaswami. M, and Sharmista. A, Boosting, Bagging and Stacking Classification Techniques for Sentiment Analysis in Tamil, International Conference on Emerging Trends in Engineering Technology, Management and Sciences (ICEETM-2019), Ashoka Institute of Engineering and Technology, Telangana, 18-19, September 2019.
58. Rajathi. M, Ramaswami. M, Students Performance Prediction Model in Distributed Environment using SparkR, International Conference on New Frontières in Mathematics and Computing(ICNFM-19), Lady Doak College, Madurai, 18-19, February, 2019.
59. Josephine Dhivya. J, Ramaswami. M, Analogy of spectrum handoff in cognitive radio networks based on Convolutional Neural Networks, International Conference on Emerging Trends in Engineering, Technology, Management and Sciences, (ICEETM-2019), Ashoka Institute of Engineering and Technology, Telangana, 18-19, September 2019.
60. Ramaswami. M, Sharmista. A, Fuzzy Roughset Based Sentiment analysis in Tamil, Proceedings of International Conference on Smart Structures and Systems, Department of Electronics and Communication Engineering, Saveetha Engineering College, Chennai, Tamil Nadu, India. 28th March 2017.
61. Ramaswami. M, and Madasamy. K, Performance Evaluation of Ensemble Based Classifier Models of High Dimensional Data,” 1st International Conference on Applied Soft Computing Techniques-ICASCT’17, Kalashilingam University, Krishnankoil, 22-24 April 2017, pp. 179-184.
62. Ramaswami. M, and Sharmista. A, Naive Bayes and NBTree Algorithm for Opinion Mining in Tamil, International Conference on Communication, Computing and

Information Technology, Department of Computer Science, Chennai, Tamil Nadu, India, 3-4 February 2017.

63. Ramaswami. M, Dhamayanthi. B, Sharmila Vaiz. J, A Study of Deep Neural Networks in Stock Trend Prediction using Different Activation Functions, International Conference on Recent Trends in Engineering, Computers, Information Technology and Applications (ICRTECITA-2017), PSNA college of Engineering, Dindugal, 21-22, March 2017.
64. Ramaswami. M, Elango.C, Madasamy.K, Optimal Data Backup Processing Using Markov Decision Process in The Context Of Big Data Analytics, International Conference on Mathematical Modeling and Computational Methods in Science and Engineering (ICMMCMSE 2017), Alagappa University, Karaikudi, Tamil Nadu 20 -22, February 2017.
65. Ramaswami. M, Sharmista. A, Naïve Bayes and NBTree Algorithm for Opinion Mining in Tamil, International Conference on Communication, Computing and Information Technology, MOP Vaishnav College for Women, Chennai, 3-4 February 2017.
66. Ramaswami. M, Antony Williams. J, Designing AI-Based Cognitive Model for Aging: Prior experience and Perception of Smart Devices A Pilot Study, International Conference on Advances in computer applications (ICACA'2016) held at Bharathiar University, Coimbatore, 23rd September, 2016.
67. Ramaswami. M, Sharmista. A, Sentiment Classification of Product Reviews Using Opinion Lexicon and Wordnet, International Conference on Recent trends and research issues in Computer science and systems Engineering, Organized by: Dept. of Computer Science & Systems Engineering, Andhra University, Visakhapatnam – 530 003, 2-3 May 2015.
68. Ramaswami. M, Gayathiri. G, A Study of Passive Surveillance of Malaria Parasites in Erythrocytes using Digital Image Processing, International Conference on Recent trends and research issues in Computer science and systems Engineering, Organized by: Dept. of Computer Science & Systems Engineering, Andhra University, Visakhapatnam – 530 003, 2-3 May 2015.
69. Ramaswami. M, Rajathi. M, A Survey on Factorization Methods in MapReduce Environment, International Conference on Mathematical Modeling and Computational Methods in Science and Engineering (ICMMCMSE 2017), Alagappa University, Karaikudi, Tamil Nadu Feb 20 -22, 2017.
70. Ramaswami. M, Sharmista. A, Sentiment analysis with decision tree using R, International conference on computational intelligence, Organized by Dept. of Computer Science & Engineering, KLN college of Engineering, Madurai, India, 2015, pp. 74-78.

5.4.3. National

71. Ramaswami. M, Rajathi. M, EDM Classifier Models for Multiclass Problem in Distributed Environment”, National Conference on Advanced Computing (NCAC-2016), Bharathiar University, Coimbatore, 23-24 January 2020.
72. Ramaswami. M, Sharmista. A, Sentiment Analysis on Tamil Reviews using Ensemble Classification Techniques with Multi-Class Analysis, National Conference on Advanced Computing (NCAC-2020), Bharathiar University, Coimbatore, 23-24 January 2020.
73. Vinothkumar.B, and Ramaswami, M. (2020), “A Review on Diabetics Identification using Decision Tree and Myo Technical for Healthcare Systems”, National Conference on Internet of Things, ANJA College, Sivakasi, 21 February 2020.
74. Girija. M, Ramaswami. M, Resource Constrained Devices Based on Lightweight Cryptography: A Comprehensive Approach, UGC-SAP National Conference on Pattern Recognition, Informatics and Medical Engineering (PRIME-2019), Periyar University, Salem, Tamil Nādu, 21-22 March 2019.
75. Ramaswami. M, Antony Williams. J, Eye Tracking in Human-Computer Interaction Research: Potential Indicators to Measure Cognitive Load, UGC-SAP National Conference on Pattern Recognition, Informatics and Medical Engineering (PRIME-2019), Periyar University, Salem, Tamil Nādu, 21-22 March 2019.
76. Vinothkumar. B, Ramaswami. M, A Review on Diabetics Identification using Machine Learning Classification Technique for Healthcare Systems, National Conference on Recent Trends in Computer Science, KCS Kasi Nadar College of Arts and Science, 22nd August 2014.
77. Ramaswami. M, Madasamy. K, A Panorama of Big Data Analytics with Hadoop, National Conference on Mathematical Modeling, CPA College, BODI, 30-31 March 2017.
78. Ramaswami. M, Sharmista. A, Opinion Mining on Product Review Datasets Based on Decision Tree Classification Method Using R, National Conference on Recent Advances in Computer Science and Applications (NCRACSA-2015), Gandhigram Rural Institute – Deemed University, Gandhigram, 19-20 March 2015. pp.244-248.
79. Ramaswami. M, Gayathiri. G, An effect of hybrid median filter in microscopic blood images”, National Conference on Recent Advances in Computer Science and Applications (NCRACSA-2015), Gandhigram Rural Institute – Deemed University, Gandhigram, 19-20 March 2015.

5.4.4. State

80. Ramaswami. M, Kannan. S, Knowledge Mining: An effective tool for enhancing Library Resource usage, Proceedings of National Seminar on Digital Libraries in distance Education: Myths and Realities, Madurai Kamaraj University, Madurai, 27-28 August 2007.

5.5. Any Other Publications Not Mentioned Above

6. Conferences / Seminars / Workshops / Webinars Attended

1. Ramaswami. M, Workshop on Advanced Computer Methods for Statistics, School of Mathematics, Madurai Kamaraj University Madurai, 13 - 14, Feb 2003.
2. Ramaswami. M, National workshop on LATEX - a Mathematical document preparation System, School of Mathematics, Madurai Kamaraj University Madurai, 24 Mar 2003.
3. Ramaswami. M, National Seminar on Current Trends in Biostatistics School of Mathematics, Madurai Kamaraj University Madurai, 1 Oct 2003.
4. Ramaswami. M, National Seminar on NONLINEAR WAVES AND DIFFUSION, School of Mathematics, Madurai Kamaraj University Madurai, 12-13 Nov 2003.
5. Ramaswami. M, National Conference on Digital Libraries in Distance Education Myths and Realities, Directorate of Distance Education Library, Madurai Kamaraj University, Madurai, 27 - 28 Aug 2007.
6. Ramaswami. M, National Conference on Intelligent Computing Models, Periyar University, Salem, 22-23 Feb 2008.
7. Ramaswami. M, National Conference on Computer Science and Applications, Mepco Schlink Engineering College, Sivakasi, 12 Mar 2008.
8. Ramaswami. M, International Conference on Data Management (ICDM2009), Institute of Management Technology, New Delhi, 10-11 Feb 2009.
9. Ramaswami. M, Workshop on Preparation of SIM Material, Directorate of Distance Education, Madurai Kamaraj University, Madurai, 7 Dec 2009.
10. Ramaswami. M, Workshop on SIM Material and Online courses, Directorate of Distance Education, Madurai Kamaraj University, Madurai, 21-22 Dec 2010.
11. Ramaswami. M, Seminar on Recent Initiatives in Higher Education and their Impact on Equality and Excellence, Nagercoil, Tamil Nādu, 21 Oct 2011.
12. Ramaswami. M, National Seminar on Geospatial Technology for Resource Evaluation and Management, Madurai Kamaraj University, Madurai, 17-18 Feb 2012.
13. Ramaswami. M, International workshop on Data Structures and Algorithms, Patiala, India, 4 – 15 Jun 2012.
14. Ramaswami. M, Faculty Residency program on Big Data, IBM, Bangalore, 18-20 Jun 2014.
15. Ramaswami. M, National Workshop on Big Data Analytics, Bharathiar University, Coimbatore, 04-15 Jun 2016.

16. Ramaswami. M, NationalWorkshop on Training for the Trainers, Madurai Kamaraj University, Madurai, 18-20 Sep 2008.

17. Ramaswami. M, National Seminar on SMART SUMMIT-2016, PEARL – A foundation for Educational Excellence, Madurai, 10 Dec 2016.

7. Details of Deposits in CCDC, PDB, etc.

No	Name of Deposit	Reference No.	Date of Deposition

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