

Faculty Profile of Dr. D. RamyaChitra



Dr. D. RamyaChitra
Associate Professor
Department of Computer Science

Email:ramyachitra@buc.edu.in

Phone No:0422-2428342

Mobile No:9994374370

Research Area

- Data Mining and Bioinformatics
- Image Processing
- Grid Computing

Education & Career

Education

Ph. D.

Subject : Computer Science

Institution : Bharathiar University

Affiliated University : Bharathiar University

Year of Award : 2013

M.Phil.,

Subject : Computer Science

Institution : Sri Ramakrishna Engineering College

Affiliated University : Bharathiar University

Year of Award : 2004

M. C. A

Subject: Computer Applications

Institution : Madras University

Affiliated University : Madras University

Year of Award : 2000

B. Sc.,

Subject: Applied Sciences

Institution: Government College of Engineering

Affiliated University: Madras University

Year of Award: 1996

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

Associate Professor: from 18.01.2019 to till date

Assistant Professor: from 18.01.2008 to 17.01.2019

Past Experience

Lecturer: from 01.06.2001 to 14.01.2008 at Sri Ramakrishna Engineering College

Awards

Dr. A. P. J. Abdul Kalam Award for Scientific Excellence – 2018 for Research Contribution

Membership

Life Member of Computer Society of India

Member of IAENG

Visits

Paper presentation in an International Conference on Science, Technology, Management, Arts and Science – Contemporary research in future of Asia at Asia Pacific University, Malaysia on 19.10.2018.

Collaborators

Others

Projects

Funded Projects (National Level)

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

Ongoing Projects List with necessary Information

An Efficient Scheduling Strategy for Protein Sequence Analysis on the Grid - funded by UGC.

Hands on training on Statistical Analysis using Python - funded by SDC, BEICH-RUSA 2.0.

Consultancy Projects

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

Ongoing Consultancy Project Informations

Completed Consultancy Project Informations

Research Guidance

Ph.D. Ongoing

3

Ph.D. Completed.

7

M.Phil. Ongoing

Nil

M.Phil. Completed

27

M.Sc. Ongoing

5

M.Sc. Completed.

38

Research Publication

- [International](#)
- [National](#)

- [Patents](#)
- [Conferences](#)
- [Books / Chapters](#)
- [Database](#)

1. Jayalakshmi, D.Ramyachitra, Wavelet Transform Based Water Marking Using a Simple Spread Spectrum Technique, International Journal of Imaging, December 2008.
2. Ramyachitra Duraisamy, L.Valarmathi and Jeyalakshmi Ayyappan, Iteration Free Hybrid Fractal Wavelet Image Coder, International Journal of Computational Cognition, 6(4), 34-40, 2008, ISSN: 1542-806.
3. K.Vivekanandan, D.Ramyachitra, Grid Applications - Past & Present- A Survey, International Journal of Computer Science & Applications, Issue 2011, 86-88, 2011, ISSN: 2278-1080.
4. K.Vivekanandan, D.Ramyachitra, A Study on Scheduling in Grid Environment, International Journal on Computer Science & Engineering, 3, 571- 584, 2011, ISSN: 2347-2693.
5. K.Vivekanandan, D.Ramyachitra, Grid scheduling using various performance measures – A comparative study, Ubiquitous Computing and Communication Journal, 6, 864 – 875, 2011, ISSN: 1992-8424.
6. K.Vivekanandan, D.Ramyachitra, K,Anbu, Artificial Bee Colony algorithm for grid scheduling, Journal of Convergence Information Technology,6, 328-339, 2011, **Scopus** (2010-2012), ISSN: 2233-9299.
7. D.Ramyachitra, S.Poongodi, Grid Meta Broker selection strategies for job reservation and bidding, International Journal of Grid Computing and Applications, 2,13-25, 2011, ISSN: 0976-9404.
8. K.Vivekanandan, D.Ramyachitra, Bacteria Foraging Optimization for protein sequence analysis on the grid, Future Generation Computer Systems, 28, 647- 656, 2012, **SCI, IF:7.187**, ISSN: 0167-739X, doi : <https://doi.org/10.1016/j.future.2011.10.009>
9. Kaniappan Vivekanandan,Duraisamy Ramyachitra, Bacterial Foraging Optimization for grid scheduling, Parallel and Distributed Computing Networks, 2, 1-10, 2012. ISSN: 1925-5543, doi: <http://dx.doi.org/10.2316/Journal.211.2012.1.211-1043>

10. D.Ramyachitra, K.Vivekanandan, Decision Tree Learning Technique for selection of appropriate grid scheduling, International Journal of Computational Intelligence and Informatics, 2, 2012, ISSN: 2349-6363.
11. K.Vivekanandan, A.Pankaj Moses Monickraj, D.Ramyachitra, Graph Mining Sub Domains and a framework for indexing – A Graphical approach, International Journal of Advanced Computer Science and Applications, 4, 153 – 157, 2013, ISSN: 2156-5570.
12. Vivekanandan, Pankaj Moses Monickraj, D.Ramyachitra, VFG-INDEX: A Novel Graph Indexing method International Journal of Computer Science and Informatics, 4(2), 126-130, Oct 2014, ISSN: 2231 -5292.
13. D.Ramyachitra, P.Pradeep Kumar, Scheduling Homology Modeling in Grid Environment, International Journal of Computational Intelligence & Informatics, 2 (4), 287-292, March 2013, ISSN: 2349 - 6363.
14. D.Ramyachitra, S.A.Sharmila Banu, Efficient Memory Utilization for Resource Discovery in a Grid Environment, International Journal of Computational Intelligence & Informatics, 2(4), 304 - 314, March 2013, ISSN: 2349-6363
15. D.Ramyachitra, P.Suganthi, Genetic Algorithm based Artificial Bee Colony Algorithm for Grid Scheduling, International Journal of Advanced Research in Computer and Communication Engineering, 2(9), 3582-3589, September 2013, ISSN: 2278-1021.
16. R.Geetha, D.Ramyachitra, Mycobacterium Tuberculosis on Grid Computational Algorithm, International Journal of Advanced and Innovative Research, 2, 294-297, 2013, ISSN: 2278-7844.
17. C.Murugananthi, D.Ramyachitra, Grid Environment for Dengu Virus Protein Analysis, International Journal of Advanced & Innovative Research, 3, 27-30, 2014, ISSN: 2278-7844.
18. C.Murugananthi, D.Ramyachitra, Performance Evaluation of Partition and Hierarchical Clustering Algorithms for protein sequences, International Journal of Computational Intelligence and Informatics, 3(4), 272-277, March 2014, ISSN: 2349 – 6363.
19. D.Ramyachitra, P.Manikandan, Imbalanced dataset classification and solutions – A review, International Journal of Computing and Business Research, 5(4), July 2014, ISSN: 2229-6166.
20. D.Ramyachitra, R.Geetha, Refined Markov Clustering Algorithm for Mycobacterium Tuberculosis protein sequence analysis, International journal of Computer Science and Engineering Technology, 5, 809 – 814, 2014, ISSN: 2229-3345.
21. D.Ramyachitra, D.Banupriya, Protein Complex Detection: A Study, International Journal of Computer Science and Information Technology and

Security, 4, 107-115, 2014, ISSN: 2249 - 9555

22. D.Ramyachitra, M.Sofia, A comprehensive study on gene selection and t issue samples techniques, International Journal of Computer Application and Information Technology, 6, 108 -116, 2014, ISSN: 2278-7720.
23. P.Manikandan, D.Ramyachitra, Naïve Bayes Classification Technique for analysis of Ecoli Imbalance Dataset, International Journal of Computational Intelligence and Informatics, 4(2), 98-103, July - September 2014, ISSN: 2349-6363.
24. V.Veeralakshmi, D.Ramyachitra, An Experimental Analysis of Evolutionary and Swarm Intelligence Algorithms for 3D HP Structure Prediction, International Journal of Computational Intelligence and Informatics, 4(2), July - September 2014, ISSN: 2349-6363.
25. D.Ramyachitra, V.Veeralakshmi, Computational Analysis of protein structure prediction and folding, International Journal of Computer Science and Information Technology and Security, 4, 116-127, 2014, ISSN: 2249 - 9555.
26. Kanchana Natarajan, Ramyachitra Duraisamy, Engineering Perspective on Enterprise Software Quality Towards Compliance Management for Better GRC, International Journal of Engineering Sciences Research, 5, 1578-1584, 2014.
27. C.Murugananthi, D.Ramyachitra, An empirical analysis of flame and fuzzy c-means clustering for protein sequences, International Journal of Computational Intelligence and Informatics, 4(3), 214-220, October - December 2014, ISSN: 2349-6363.
28. D.Ramyachitra, M.Sofia, P.Manikandan, Interval-value based particle swarm optimization algorithm for cancer- type gene selection and simple classification, Genomics Data, 5, 46-50, Sep 2015, ISSN:2213-5960, doi: <https://doi.org/10.1016%2Fj.gdata.2015.04.027>
29. Kanchana Natarajan, Ramyachitra Duraisamy, Software Maintainability Compliance Management Model Towards Quality Enhancement, International Journal of Applied Engineering Research, 10 (15), 35875 - 35882, 2015, **Scopus** (2010-2017), ISSN: 1087—1090.
30. V.Veeralakshmi, D.Ramyachitra, Ripple Down Rule learner(RIDOR) Classifier for IRIS Dataset, International Journal of Computer Science Engineering, 4 (3), 79 -85, May 2015, ISSN: 2319-7323
31. R.Nithya, P.Manikandan, D.Ramyachitra, Analysis of Clustering Technique for the Diabetes dataset using the training set parameter, International Journal of Advanced Research in Computer and Communication Engineering, 4(9), 166-169, September 2015, ISSN: 2278-1021, doi: 10.17148/IJARCCCE.2015.4936.

32. R.Nithya, P.Manikandan, D.Ramyachitra, Performance Analysis of Meta Classifiers Algorithms using Yeast Dataset, International Journal of innovative Research in Computer and Communication Engineering, 3, 8062-8068, 2015, ISSN: 2320-9801.
33. R.Ranjani Rani, P.Manikandan, D.Ramyachitra, An Empirical Analysis of Classification Tree Algorithm for Protein Datasets, International Journal of Advanced Research in Computer Science, 6(6), 34-39, 2015, ISSN: 0976-5697.
34. V.Kamalakkannan, Dr.D.Ramyachitra, An Experimental Analysis of Different Classification Techniques for Diabetes Dataset, International Journal of Advanced Research in Computer Science and Software Engineering, 2, 430-434, 2016, ISSN: 2277-128X.
35. V.Kamalakkannan, Dr.D.Ramyachitra, Analysis of Different Classification Algorithms Applied to Anneal Dataset Using Data Mining Techniques, International Journal of Future Innovative Science and Engineering Research, 2, 127-134, 2016.
36. D.Ramyachitra, P.PradeepKumar, Frog leap algorithm for homology modeling in grid environment, International Journal of Grid and Utility Computing, 7(1), 29-40, 2016, ISSN: 1741-8488, doi:
<https://doi.org/10.1504/IJGUC.2016.073775>
37. P.Manikandan, D.Ramyachitra, S.Kalaivani, R.Ranjani Rani, An improved instance based k-nearest neighbor (IIBK) classification of imbalanced datasets with enhanced preprocessing, International Journal of Applied Engineering Research, 11(1), 642-649, February 2016, **Scopus** (2010-2017), ISSN: 0973-4562.
38. R.Ranjani Rani, Dr.D.Ramyachitra, Multiple sequence alignment using multi-objective based bacterial foraging optimization algorithm, BioSystems, 150, 177- 189, December 2016, **SCI, IF:1.973**, ISSN: 0303-2647, doi:
<https://doi.org/10.1016/j.biosystems.2016.10.005>
39. P.Manikandan, D.Ramyachitra, D.Banupriya, Detection of overlapping protein complexes in gene expression, phenotype and pathways of Saccharomyces cerevisiae using Prorank based Fuzzy algorithm, Gene, 580(2),144-158, April 2016, **SCI, IF: 3.688**, ISSN: 0378-1119, doi:
<https://doi.org/10.1016/j.gene.2016.01.016>
40. D.Ramyachitra, V.Veeralakshmi, Bacterial Foraging Optimization for protein structure prediction using FCC & HP energy model, Gene Reports,7,43-49, June 2017, **ESCI**, ISSN 2452-0144, doi:
<http://dx.doi.org/10.1016/j.genrep.2017.01.005>

41. D.Ramyachitra, R.Nithya, Construction of reliable heterogeneous network using protein sequence similarity for the prioritization of candidate disease genes, Gene Reports, 8, 1-10, September 2017, **ESCI**, ISSN 2452-0144, doi: <https://doi.org/10.1016/j.GENREP.2017.04.013>
42. D.Ramyachitra, A.Ajeeth, MODCSA-CA, A multi objective diversity controlled self adaptive cuckoo algorithm for protein structure prediction, Gene Reports, 8,100-106,September 2017,**ESCI**, ISSN 2452-0144, doi: <https://doi.org/10.1016/j.genrep.2017.06.001>
43. P.Manikandan, D.Ramyachitra, Bacterial foraging optimization-Genetic algorithm for multiple sequence alignment with multi objectives, Scientific reports, 7, 8833,1-14, August 2017, **SCI**, **IF: 4.996**, ISSN: 2045-2322, doi: <https://doi.org/10.1038/s41598-017-09499-1>
44. Murugananthi C, Ramyachitra D, Hybrid fuzzy algorithm for protein clustering using secondary structure parameters, IOSR Journal of Computer Engineering,19(3), 1-7, May-June 2017, ISSN: 2278-0661, doi :10.9790/0661-1903030107
45. P. Manikandan, D. Ramyachitra, PATSIM: Prediction and analysis of protein sequences using hybrid Knuth-Morris Pratt (KMP) and Boyer-Moore (BM) algorithm, Gene, 657, 50-59, May 2018, **SCI**, **IF: 3.688**, ISSN: 0378-1119, doi: <https://doi.org/10.1016/j.gene.2018.02.069>
46. Rj Bhojan, D Ramyachitra, K Vivekanandan, S Ganesan, A Machine Learning Based Approach for Detecting Nondeterministic Tests and its Analysis in Mobile Application Testing, International Journal of Advanced Research in Computer Science, 9(1), 219-223, January - February 2018, ISSN : 0976-5697.
47. S.Janani, D.Ramyachitra, R.Ranjani Rani, PCD-DPPI: Protein complex detection from dynamic PPI using shuffled frog-leaping algorithm, Gene Reports, 12, 89-98, 2018, **ESCI**, ISSN 2452-0144, doi: <https://doi.org/10.1016/j.genrep.2018.06.002>.
48. C. Geetha and D. Ramyachitra, Enhanced Gaussian Bat Algorithm and Doppler Effect (EGBA-DE) and Supervised HFNN Approach for Effective Classification of Alzheimer"s Disease, International Journal of Pure and Applied Mathematics,119 (10), 273-299, 2018, ISSN: 1314-3395.
49. V.Shenbagapriya, D.Ramyachitra, Modified Genetic Algorithm (MGA) based feature selection with Mean Weighted Least Squares Twin Support Vector Machine (MW-LSTSVM) approach for vegetation classification, Cluster Computing, 22(6), 13569-13581, 2019, **SCI**, IF: 1.809, ISSN: 1573-7543, doi: <https://doi.org/10.1007/s10586-018-2003-8>.

50. D.Ramyachitra, A.Jeyalakshmi, Source Camera identification using image features, International Journal of Applied Engineering Research, 13(1), 490-504, 2018, ISSN: 0973-4562.
51. D.Ramyachitra, A.Jeyalakshmi, Hybrid framework of image source identification using image features with conditional probability features, International Journal of Theoretical and Applied Sciences, 10, 129-134, 2018, ISSN: 0975 – 1718.
52. V.Shenbagapriya, D.Ramyachitra, Remote Sensing Image Detail Enhancement based on Retinex Theory with Local Mode Findings, Journal of Advanced Research in Dynamical and Control Systems, vol. 10, no. 8, 2018, ISSN: 1943-023X
53. Manikandan, D. Ramyachitra, R. Nandhini, Fuzzy based algorithms to predict MicroRNA regulated protein interaction pathways and ranking estimation in Arabidopsis thaliana, Gene, 692, 170-175, 2019, **SCI, IF:3.688**, ISSN: 0378-1119, doi: <https://doi.org/10.1016/j.gene.2018.12.066>
54. R.Ranjani Rani, D.Ramyachitra, A.Brindhadevi, Detection of dynamic protein complexes through Markov Clustering based on Elephant Herd Optimization Approach, Scientific Reports, 9,11106, 1-18, 2019, **SCI, IF:4.996**, ISSN: 2045-2322, doi: <https://doi.org/10.1038/s41598-019-47468-y>.
55. A.Jeyalakshmi, D.Ramyachitra, Image splicing detection based on surf with ripplelet transform – ii, International Journal of Recent Technology and Engineering, 7(5S), January 2019, ISSN : 2277 – 3878.
56. Rajkumar J Bhojan, Dr. D. Ramyachitra, Dr.Subra Ganesan, Ragavi Rajkumar, A Hybrid Deep Learning Based Visual System for In-Vehicle Safety, EJERS, European Journal of Engineering Research and Science, 4(4), April 2019, ISSN: 2506-8016.
57. V.Shenbagapriya, D.Ramyachitra, Multiple Kernel Based Remote Sensing Vegetation Classifier with Levy Optimized Subspace, Wireless Personal Communications, 111, 357-374, March 2020, **SCI, IF:1.2**, ISSN:1572-834X, doi: <https://doi.org/10.1007/s11277-019-06863-4>
58. R.Ranjani Rani, D.Ramyachitra, Antlion Optimization algorithm for pairwise structural alignment with biobjective functions, Neural computing and applications, 32, 7079-7096, June 2020, **SCI, IF:5.606**, ISSN:0941-0643, doi: <https://doi.org/10.1007/s00521-019-04176-y>
59. P. Lakshmi, Dr.D. Ramyachitra, An improved Genetic with Particle Swarm Optimization Algorithm Based on Ensemble Classification to Predict Protein – Protein Interaction, Wireless Personal Communications, Springer, 113(4),

1851-1870, April 2020, **SCI**, IF: 1.2, ISSN: 0929-6212, doi:

<https://doi.org/10.1007/s11277-020-07296-0>

60. P. Lakshmi, Dr.D. Ramyachitra, E. Pavithra Vishalini, Motif Discovery of Protein – Protein Interaction using Minimum Spanning Tree, International Journal of Engineering and Advanced Technology (IJEAT), 9(3), February 2020, ISSN: 2249 – 8958, doi: 10.35940/ijeat.B4576.029320
61. E. Pavithra Vishalini, Dr.D. Ramyachitra, P. Lakshmi, A Hybrid DELGA Algorithm for Protein Ligand Docking, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 9(4), **Scopus**, February 2020, ISSN : 2278-3075, doi: 10.35940/ijitee.C8986.029420.
62. P. Manikandan, D. Ramyachitra, C. Muthu, “Analysis of Influenza Virus Proteins Based on its Primary and Secondary Structure”, High Technology Letters, 26(09), Sep 2020. ISSN:1006-6748.
63. Revathi, M., & Ramyachitra, D. A Modified Borderline Smote with Noise Reduction in Imbalanced Datasets. Wireless Personal Communications, 121(3), 1659-1680, December 2021, **SCI**, **IF: 1.2**, ISSN:1572-834X, doi: <https://doi.org/10.1007/s11277-021-08690-y>
64. Sajithra.N, Dr.D. Ramyachitra, “Comparative analysis of various tree classifier algorithms for disease datasets” International Journal of Engineering Trends and Technology, 69(6), 8-13, June 2021, **Scopus**, ISSN: 2231-5381, doi: <https://doi.org/10.14445/22315381/IJETT-V69I6P202>.
65. Manikandan.P, Dr.D. Ramyachitra, Muthu.C, Sajithra.N, “Enrichment of remote homology detection using cascading maximum entropy Markov model”, International journal of current research and review, volume13(19), 80-84, October 2021, **Scopus** (2014,2019-2021) ISSN: 0975-5241, doi: <http://dx.doi.org/10.31782/IJCRR.2021.131906>

Alumini Reflections: