



Dr. E. Ramaraj
Professor and Head

Contact

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Academic Qualifications: M.Sc., M.Phil., M.C.A., M.Tech., Ph.D.

Teaching Experience: 30 Years

Research Experience: 16 Years

Areas of Research

Data Mining, Network Security and Big Data & Analytics.

Research Supervision / Guidance

	Program of Study	Completed	Ongoing
Research	Ph.D.	28	6
	M.Phil.	38	7
Project	PG	130	9

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
76	34	4	22	2

Cumulative Impact Factor (as per JCR) :	20(2011-15)
h-index	08
i10 index	08
Total Citations	291

Distinctive Achievements / Awards

1. **Dr. Mohan Best Teacher Award-2011** received from Tamil Nadu College of Education, Nainarpuram, Sivaganga District.

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: **2**

1. Convenor, Two days International Workshop on Data Science and Analytics, 27th and 28th September 2016.
2. Convenor, Two days National Seminar on Advances in Computer Science (NSACS), 21st and 22nd October 2016.

Events Participated

Conferences / Seminars / Workshops: 2

1. The Second International conference on Technology, knowledge & society Hyderabad Organised by Common Ground Publisher Australia, 12-15 Dec 2005.
2. Third International conference on Mobile, Ubiquitous & pervasive computing, Organised by VIT University Vellore, 18 & 19 Dec2006.

3. Two Days Faculty Development Programme on “J2EE and Best Practices in Applications Development” organized by ICT Academy of Tamil Nadu, Chennai, at Alagappa University, 8-9th October 2009.
4. Five Days Faculty Development Programme on “Cloud Infrastructure and Services” organized by ICT Academy of Tamil Nadu, Chennai, at Alagappa University from 23-02-2015 to 27-02-2015.

Other Training Programs

1. Participated in the Refresher course, Academic Staff College, University of Hyderabad, Hyderabad during 5-12-1994 to 31-12-1994.
2. Participated in "IT Application for Management of University Administration and Examination Reforms in Higher Education, Indian Institute of Information Technology Allahabad during 27-12-09 to 31-1-10.

Membership in

Editorial Board

1. Editorial member, Journal of Computer Science, Karpagam Publications (2005), Coimbatore.

Academic Bodies (such as Board of Studies etc.,)

1. Chairman, Board of Studies, Madurai Kamaraj University.
Programmes: M.C.A and B.C.A courses (under Choice Based Credit System) from 2007 to 2010
2. Member, Board of Studies, SNR College (AUT), Coimbatore.
Programmes: BCA, MCA, B.Sc (Computer Science) and M,Sc(Computer Science)
3. Member, Board of Studies, Sree Saraswathi Thiyagaraja College (Autonomus), Pollachi.
Programme: M.C.A
4. Member, Board of Studies, PSG Arts and Science College, Coimbatore.
Programmes: G Computer Science courses
5. Chairman, Question paper setting board, Bharathidasan University, Tiruchirappalli.

Programmes: M.C.A and M.Sc (Computer Science) for the year 2008-2009

6. Member, Board of Studies, Karpagam College of Arts and Science, Coimbatore.

Programmes: PG and UG Computer Sciences (Syllabi revision) in 2005.

7. Member, Board of Studies, Dr.G.R.Dhamodharan College of Science, Coimbatore.

Programmes: MCA (Syllabi revision) in 2005.

8. Member, Board of Studies, Devanga Arts College, Arupukottai.

Programmes: M.Sc (CS & IT) in 2013-15.

9. Chairperson, Alagappa University, Karaikudi.

Programmes: M.Sc (CS & IT) in 2013-15

10. Chairperson, Alagappa University, Karaikudi

Programmes : M.Sc(Computer Science), M.Phil(Computer Sciecne)

Others

Memberships in Academic Committees:

1. Subject Expert in Selection Committee for Professor and Assistant Professor in Computer Science at Mother Teresa University, Kodaikanal.
2. Subject Expert in Selection Committee for Assistant Professor in Centre for Information Technology and Engg., at Manonmaniam Sundaranar University, Tirunelveli.
3. Subject Expert in Selection Committee for Assistant Professor in Computer Science, Information System Manager at Madurai Kamaraj University, Madurai.
4. Subject Expert in Selection Committee for Lecturer in Computer Science at PSNA College of Engg, Dindukal.
5. Subject Expert in Selection Committee for Lecturer in Computer Science at Sri Kaliswari College, Sivakasi.
6. Member of commission for Affiliation of IT course in Alagappa University, Karaikudi
7. Member of Commission for affiliation of B.C.A, B.Sc Computer Science courses in Madurai Kamaraj University, Madurai.

Resource persons in various capacities

Number of Invited / Special Lectures delivered: **22**

1. Key-note address," Recent trends in Information Technology CAIT 08", J.J. College of Arts and Science, Pudukkottai. 27-02-2008.
2. Key-note address," National Conference on Network Security 2008", Department of Computer Science, S.T.Hindu College, Nagarkoil 26-09-2008.
3. Valedictory Address, "Current IT trends on National level Technical Symposium on TECHNOFEST 09", Bharathiyar College of Engineering and Technology, Karaikal 10-03-2009.
4. Key-note address, "Data mining and its Research Application for AICTE sponsored Faculty Development programme on FRONTIER OF INTELLIGENT COMPUTING ", Bharathiyar College of Engineering and Technology, Karaikal 01-08-2009.
5. Key-note address," Job opportunities in IT field" in ASTERIX 2010, Madurai Kamaraj University, Madurai 16-10-2010.
6. Inaugural address," Brain Disk and Drive in Southern states management meet GENESIS 2010", Nehru College of Management, Coimbatore 22-03-2010.
7. Chairperson," National seminar on fuzzy mathematical modelling in agriculture and waste land development", Khadir mohideen College, Adirampattinam 29-03-2009.
8. Key-note address," Network Security –SQL injection Attack" in State Level Seminar on Computing Intelligence, SVN College, Madurai 04-03-2010.
9. Chief Guest, "Wireless Communication, National level Technical symposium PHONENIX 2010", EBET Group of Institutions, Kangayam 03-04-2010.
10. Chief Guest," Cryptography and its network terminology, National Level Technical Seminar ", Vivekananda College, Thiruchengode 09-03-2010.
11. Key-note address, "Research issues Data Mining, National Conference on Soft Computing and Intelligent ", Bharathiyar College of Engineering and Technology, Karaikal 15-03-2008.
12. Chairperson, "UGC sponsored National Conference on Data warehousing and Datamining", Gopi Arts and Science College Gopichettipalayam 5-3-2011.
13. Key-note address," National Conference on Advanced Computing technology", Vidyaa Vikas college of Engineering and Technology, Thiruchengode.

Chairperson, "International Conference Electronic Computer Technology (ICECT-2012)",
Kanyakumarri, 06-08 April 2012.

14. Chairperson, "National conference on Green Computing", S.T.Hindu College, Nagerkoil. 2012.
15. Chief Guest, "Techno Sem 2012-Inter college meet", Anandha College, Devakottai, 27-09-2012.
16. Organizer, "Computer Security Day", Alagappa University, Karaikudi, 21-12-2012.
17. Chairperson, "International conference on Computing and Information Technology", Computer Centre Alagappa University, Karaikudi 23-09-13 & 24-09-2012.
18. Chief Guest, "Emerging Trends in IT", Dr.Umayal Ramanathan College for Women, Karaikudi 27-09-2013.
19. Chairperson, "National Conference on Research Issues in Image Analysis & Mining Intelligence", Erode Arts & Science College (Autonomous), Erode 14-02-2015.
20. Key-note address, "Image Processing Application", Computer centre Alagappa University, Karaikudi 07.03.2014.

Others

1. Products developed : 01
2. No. of PhD Thesis evaluated : 55
3. No. of PhD Public Viva Voce Examination conducted : 50

Recent Publications

1. D.Napoleon, Dr.E.Ramaraj,(2014) "An Efficient Fuzzy Cylindrical Partial Relations Clustering Algorithm for the Classification of Remote Sensing Images", European Journal of Scientific Research, Vol. 127, No. 4, ISSN 1450-216X.
2. AV.Karthick, Dr.E.Ramaraj and R.Kannan,(2013) "An Efficient Tri Queue Job Scheduling Using Dynamic Quantum Time for Cloud Environment", Proc. of IEEE International Conference on Green Computing, Communication and Conservation of Energy, (ICGCE-2013), Chennai, PP. 873-878, ISBN: 978-1-4673-6125-5.

3. AV.Karthick, Dr.E.Ramaraj and R.Kannan,(2014) "An Efficient Multi Queue Job Scheduling for Cloud Computing", Proc. Of IEEE International Conference on World Congress on Computing and Communication Technologies (WCCCT-2014), PP. 164-166, ISBN: 978-1-4799-2876-7.
4. AV.Karthick, Dr.E.Ramaraj,(2014) "Comparative Study of Genetic Algorithm, Ant Colony Optimization and Particle Swarm Optimization Based Job Scheduling Algorithms for Cloud Environment", Presented in UGC and IETE Sponsored National Conference on Data Science and Engineering 2014 at S.T. Hindu College and Published in Elsevier Publications (ISBN: 978-93-5107-294-2).
5. AV.Karthick, Dr.E.Ramaraj,(2014) "Reservation and On-Demand Priority Based Queue Job Scheduling for Cloud Computing", International Journal of Emerging Trends in Computing and Communication Technology, PP. 1-5, ISSN: 2348 4454, Vol. 2, No. 1.
6. D. Napoleon, Dr.E.Ramaraj,(2015) "An Adaptive Fuzzy C- Means Algorithm for the Color Feature Extraction in Remote Sensing Images", International Journal of Innovative Trends in Engineering (IJITE), Vol. 04, No. 01, ISSN: 2395-2946, PP. 39-41.
7. D.Napoleon, Dr.E.Ramaraj,(2014) "An Efficient Segmentation of Remote Sensing Images For The Classification of Satellite Data Using K-Means Clustering Algorithm", IJIRST –International Journal for Innovative Research in Science & Technology, Vol. 1, Issue. 6, ISSN (online): 2349-6010.
8. D.Napoleon, Dr.E.Ramaraj,(2014) "An Improved Way of Segmentation and Classification of Remote Sensing Images using Kernel Induced Possibilistic C-Means Clustering Algorithm with Statistical Measures", IJSRD - International Journal for Scientific Research & Development, Vol. 2, Issue 09, ISSN (online): 2321-0613.
9. Dr. E. Ramaraj and P.Radha,(2012) "Classifying the Depression Data Polynomial Discriminant Vectors", CIIT Journal.
10. Dr.E.Ramaraj, AV.Karthick,(2012) "An Efficient Scheduling Algorithm for Cloud Computing", Emerging Trends in Global Business, RVS Institute of Management Studies and RVS College of Engg. and Tech. Coimbatore, Tamil Nadu India.
11. J. Saravanesh and Dr. E. Ramaraj,(2013) " Scalability Enhancement of Push/Pull Server functions by converting Stateless process using AJAX Mechanism", IOSR

Journal of Computer Engineering (IOSR-JCE), Vol. 13, Issue. 1, PP 17-21,ISSN: 2278-8727.

12. J. Saravanesh and Dr. E. Ramaraj,(2014) "Optimizing Web service performance enhanced with Push-Pull architecture using Data set wrappers", Presented in UGC and IETE Sponsored National Conference on Data Science and Engineering 2014 at S.T. Hindu College and Published in Elsevier Publications (ISBN: 978-93-5107-294-2).
13. J. Saravanesh and Dr. E. Ramaraj, (2012) "Scalable Transaction Authorization Using Role Based Access Control for Time Based Content Access with Session Management", International Journal of Engineering Research and Development, Vol. 5, Issue. 5, ISSN: 2278-800X.
14. J. Saravanesh and Dr. E. Ramaraj, (2015) "Scalable Push Pull architecture for retrieving student information request and response with data wrappers", International Journal of Engineering and Computer Science, Vol. 4, Issue. 1, Page No. 10127-10131, ISSN: 2319-7242.
15. K.Kavitha, Dr. E.Ramaraj, (2013) "An Adequate Approach for Actionable Pattern using Combined and Composite Association Rule Mining", Universal Journal of Applied Computer Science and Technology, Vol. 3(2), PP. 387-393, ISSN: 2250-0987.
16. K.Kavitha, Dr. E.Ramaraj, (2013) "Comparing Various Approaches of Frequent Pattern Mining with Combined Association Rule", European Journal of Scientific Research, ISSN: 1450-216x.
17. K.Kavitha, Dr. E.Ramaraj, (2013) "Efficient Transaction Reduction in Actionable Pattern Mining for High Voluminous Datasets Based on Bitmap and Class Labels", International Journal of Computer Science and Engineering, Vol. 5.
18. K.Kavitha, Dr. E.Ramaraj, (2013) "IP-FPM: An Efficient Algorithm for Intensified Priority Based Frequent Pattern Mining", European Journal of Scientific Research, Vol. 95, Issue. 2, ISSN: 1450-216x.
19. K.Kavitha, Dr. E.Ramaraj,(2012) "Knowledge Discovery Approach in Shopping Complex Database (ASCD)", International Journal of Computer and Organization Trends, Vol. 2, ISSN: 1450-216x.

20. K.Kavitha, Dr. E.Ramaraj,(2012) "Mining Actionable Patterns Using Combined Association Rules", published in International Journal of Current Research, Vol. 4, pp.117-120, ISSN: 0975- 833x.
21. P.Geetha, Dr.E.Ramaraj, (2014) "A Frequent Trajectory Path Mining Using Bit Mask Search and UP Growth+ Algorithm", Computing and Communication Technologies (WCCCT), 2014 World Congress on, IEEE Xplore, March-2014, pp.17 - 20 ISBN: 978-1-4799-2876-7 .
22. P.Geetha, Dr.E.Ramaraj,(2013) "Bit Mask Search Algorithm for Trajectory Database Mining", International Conference on Computing and information Technology (IC2IT-2013), IJCA Proceedings on International Conference on Computing and information Technology 2013, International Journal of Computer Applications (0975 – 8887).
23. R. Sridevi, Dr. E. Ramaraj,(2013) "A General Survey on Multidimensional And Quantitative Association Rule Mining Algorithms", International Journal of Engineering Research and Applications, ISSN: 2248-9622 www.ijera.com Vol. 3, Issue 4, pp.1442-1448.
24. R. Sridevi, Dr. E. Ramaraj, (2014) "A Novel Approach for Multidimensional Quantitative Association Rule Mining", European Journal of Scientific Research, ISSN 1450-216X / 1450-202X Vol.117 No.3pp.458-469.
25. R. Sridevi, Dr. E. Ramaraj,(2013) "Finding Frequent Patterns Based On Quantitative Binary Attributes Using FP-Growth Algorithm, International Journal of Engineering Research and Applications, ISSN : 2248-9622, Vol. 3, Issue 6 pp.829-834.
26. R. Sridevi, Dr. E. Ramaraj,(2014) "Multidimensional Quantitative Rule Generation Algorithm for Transactional Database", International Journal of Computer Applications, Volume 99.
27. RM. Vidhyavathi, Dr.E.Ramaraj, N. Venkatesan, (2012) "A Study of Mining Web Intelligent Information", International Journal of Emerging Technology and Advanced Engineering, www.ijetae.com, ISSN 2250-2459, Vol. 2, Issue. 9.
28. RM.Vidhyavathi and Dr. E. Ramaraj, (2012) "An Ontology-Based Information Retrieval System Using Apriori and Semantic Search", is published in European Journal of Scientific Research, Vol. 92 No. 3. (Scopus, SCI).

29. RM.Vidhyavathi and Dr. E. Ramaraj, (2013) "Ontology Based Association Rule Mining Algorithms for Intelligent Decision Making", European Journal of Scientific Research, Vol. 100, No.2. (Scopus, SCI).
30. RM.Vidhyavathi and Dr. E. Ramaraj,(2011) "Ontology Building Web Information Retrieval System Using Association Rule Mining", is published in International Journal of Computational Intelligence and Information Security, October 2011, Vol 2 No.10, pp: 54-66, (ISSN 1837-7823)
31. V. Mathivanan, Dr.E.Ramaraj, (2012) "Adjusted Probabilistic Based Route Discovery Process in Mobile Adhoc Networks", International Journal of Computer Science and Information Security (IJCSIS), ISSN: 1947-5500, Vol. 10, No. 2, PP. 50-54.
32. V. Mathivanan, Dr.E.Ramaraj,(2011) "An Analysis of Fixed Probabilistic Route Discovery Mechanism Using On-Demand Routing Protocols", International Journal of Innovative Technology and Creative Engineering (IJITCE), ISSN: 2045-8711, Vol. 1, No.12, PP. 20-27.
33. V. Mathivanan, Dr.E.Ramaraj,(2012) "An Analysis of Probabilistic Route Discovery Mechanism Based on Node Mobility", International Journal of Engineering and Innovative Technology and Creative Engineering (IJEIT), ISSN: 2277-3754, Vol. 1, No. 2, PP. 57-63.
34. V. Mathivanan, Dr.E.Ramaraj,(2012) "Performance Enhancement of AODV Routing Protocol Based on Network Density", International Journal of Engineering and Innovative Technology (IJEIT), ISSN: 2277-3754, V. Mathivanan, Dr.E.Ramaraj,Vol. 1, No. 5, PP. 37-44.
35. V. Mathivanan, Dr.E.Ramaraj,(2012) "Probabilistic Based Route Discovery Process in Mobile Adhoc Networks", Proc. of International Conference on Knowledge Management & Resource Sharing (ICKMARS 2012), Sultanate of Oman, PP. 48.
36. V.Sameswari, Dr.E.Ramaraj,(2014) "A Study of Table- Driven and On- Demand Routing Protocols in MANET", International Journal of Computer Technology and Applications, Vol. 5(2), 522-529, ISSN: 2229-6093, IJCTA.
37. V.Sameswari, Dr.E.Ramaraj,(2013) "Comparative Study of AODV, DSR, DSDV and OLSR Routing Protocols in MANET", Proc. of International Journal of Computer Applications (0975-8887), International Conference on Computing and Information Technology (IC2IT).

38. V.Sameswari, Dr.E.Ramaraj,(2015) "Performance Comparison Between Static and Dynamic Network Environment Using Network Simulator 2", Proc. of International Conference on Advances in Applied Engineering and Technology.
39. V.Sameswari, Dr.E.Ramaraj,(2014) "Shortest Route Discovery Using Hybrid (Aodv and Olsr) Routing Protocols in Manet", Presented in UGC and IETE Sponsored National Conference on Data Science and Engineering 2014 at S.T. Hindu College and Published in Elsevier Publications (ISBN: 978-93-5107-294-2), pp. 273-279.