

Dr. A Kathirvel., B.E (CSE)., M.E (CSE)., Ph.D (CSE).,



Professor, DCSE, Karunya Institute of Tech.& Sciences, Coimbatore

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Career objective

- My overall teaching philosophy is to foster students on critical thinking and acquirement of lifelong learning skills, which strongly influences on learning outcomes and acquisition of knowledge.
- Research philosophy it to work in the field comparable with the best in the world. Lead a research and development department in a good academic institution or firm of good repute.

Educational Qualification

SNo	Course/College	University	%, Class	Year
1	Ph.D.,(CSE) Crescent Engineering College, Chennai	Anna University	Highly Commented	Feb 2010
2	M. E.,(CSE) Crescent Engineering College, Chennai	University of Madras University 7 th Rank	76% FIRST	Nov 2002
3	B. E.,(CSE) Crescent Engineering College, Chennai	University of Madras	70% FIRST	May 1998

Professional Experience

Total Experience: 23 + years

SNo	Name of the Institution	Designation	Period	Total Exp
1.	Misrimal Navajee Munoth Jain Engineering College, Chennai	Professor & Head	Dec 2016 – Aug 2021	4 Years & 8 months
2.	Anand Institute of Higher Technology, Chennai	Professor & Head	Apr 2014 – Nov 2016	2 Years & 7 months
3.	Karpaga vinayaga College of Engg and Tech, Chennai	Professor & Head	Feb 2011 – Apr 2014	3 Years & 2 months
4.	B. S. A Crescent University, Chennai	Asso. Professor AP,SL, Lecturer	Jun 1998 – Feb 2011	12 Years & 8 months

R & D Contributions

Total Grant Received: 103.46 Lakhs

Project Proposal Submitted to Government Funding Agency

- Various project proposals submitted to Government agencies like DST, DRDO, AICTE, UGC..

Project Proposal on going

Nil

1. DST NIMAT sponsored “Entrepreneurship Awareness Camp”, Sanction order no. EDII/ DST-NIMAT /19-20/351 dated on 12th Aug 2019, Grant Amount Rs. 60,000.
2. Establishment DST FIST Research Lab on “Wireless Sensor Networks & Mobile Computing Lab”, Sanction order no. SR/FST/Col 255 on 18th Nov 2015, Grant amount Rs. 40 Lakhs.
3. DBT sponsored STTP programme on “Big Data Analytics in Bioinformatics”, San. No. 102/IFD/SAN/251/2019-20, dated: 2nd May 2019, Grant Amount Rs. 2,85,000/-
4. AICTE sponsored FDP programme on “Recent Trends in Internet of Things and its Research Issues”, Sanction order no. F.No. 34 –55/80/RIFD/FDP/Policy -1/2017-18, dated: 10th May 2019, Grant Amount Rs. 4,57,000/-
5. AICTE sponsored modrob on “Internet of Things”, Sanction order no. F.No.9-103/RFID/MODROB/Policy-1/2017-18 dated no 4th Jan 2019, Grant Amount Rs. 11,12,000/-
6. *IEI sponsored “Delay Tolerant Network using Wireless Communication”, Sanction order no. IEI/ KLC/18-19/117 dated on 3rd Nov 2018, Grant Amount Rs. 10,000.*
7. DST NIMAT sponsored “Entrepreneurship Awareness Camp”, Sanction order no. EDII/ DST-NIMAT /18-19/346 dated on 3rd Jul 2018, Grant Amount Rs. 1,00,000.
8. DST NIMAT sponsored “Entrepreneurship Awareness Camp”, Sanction order no. EDII/ DST-NIMAT /17-18/258 dated on 26th Apr 2017, Grant Amount Rs. 60,000.
9. AICTE sponsored FDP programme on “Recent Trends in Big Data Analytics and its Research Issues”, Sanction order no. F.No.6-91/RFID/FDP/Policy-1/2016-17 dated no 2nd Jun 2017, Grant Amount Rs. 6,42,275/-
10. DST BDID sponsored workshop on “Big Data Analytics”, Sanction order no. BDID/01/22/2014 dated on 28th Dec 2015, Grant Amount Rs. 6 Lakhs.
11. DST NIMAT sponsored “Entrepreneurship Awareness Camp”, Sanction order no. EDI/ DST-NIMAT /14-15/096 dated on 14th Jul 2015, Grant Amount Rs. 40,000.
12. MoPR Rashtriya Gram Swaraj Yojana sponsored training programme on “National Computing Training for Rural Panchayat Representatives”, Sanction order no. Rc. No. 3502/2013/T1 dated no 18th Sep 2013, Grant Amount Rs. 4 Lakhs.
13. MoPR Rashtriya Gram Swaraj Yojana sponsored training programme on “District Village Development Training for Rural Panchayat Representatives”, Sanction order no. Rc. No. 3502/2013/T1 dated no 13th Dec 2013, Grant Amount Rs. 1 Lakhs.
14. MHRD IITB sponsored programme on “One week ISTE workshop on Database Management System”, Sanction order no. IITB/2013/2 dated on 23rd May 2013, Grant amount Rs.1.50 Lakhs.
15. CSIR sponsored seminar programme on “Nano Tecnnology Application in Solar Power Systems”, Sanction order no.SYM/8349/13- HRD, Seminar Grant amount Rs. 30,000.
16. SERB sponsored seminar programme on “Integration of Renewable Energy”, Sanction order no. SERB/F/4087/2013-14 dated 30th Sep 2013, Grant amount Rs. 35,000.
17. ICMR MHFW sponsored seminar programme on “Recent Trends in Biomedical Instrumentation and Measurements”, Sanction order no. 7/623/13 dated 28.11.2013, Grant amount Rs. 40,000.

Other Grant: Rs.11.39 Lakhs

- Various other grants received from company like Wipro, Infosys, Oracle, IBM and Govt of TN..

Recognition as Research Supervisor

- Anna University, Chennai (Old. Ref No.24.04.08 & New Ref. No.2440144)
- Karunya University, Coimbatore (KITS/REG/AR/111/21)
- SRM University, Chennai (SRMIST/R/Tap.4093 – Estt. 2020 – 2144)
- Mother Thersa Women University, Kodaikanal
- St Peters University
- Sathyabama University
- VIT, Bharat University, Vels University etc.

Ph.D Guided and Completed

Completed 5
Pursuing 3

Summary

R& D Grant received (Lakhs)	103	Books Published	12	Guest Talk/Lecture	48		
Journals 76	International	57	Conference	International	23	SCOPUS	22
	National	19	70	National	47	SCI/Web of Science	34
Technical/Research Abstract	07	Conf/work Organized	35	FDP/Sem Organized	20		

Institution/Industry Course Certification

1. A. Kathirvel, Python 101 for Data Science, course of study offered by IBM, an online learning initiative of IBM.
2. A. Kathirvel, Python Basics for Data Science, course of study offered by IBM, an online learning initiative of IBM.
3. A. Kathirvel, Cybersecurity Essentials, certificate of course study offered by CISCO, an online learning initiative of Cisco Networking Academy.
4. A. Kathirvel, Programming for Everybody (Getting Started with Python), certificate of non-credit course study offered by University of Michigan and offered through Coursera.
5. A. Kathirvel, Getting Started with AWS Machine Learning, certificate of non-credit course study offered by Amazon Web Services and offered through Coursera.
6. A. Kathirvel, Introduction to Relational Database and SQL, certificate of non-credit course study offered by Coursera Project Network and offered through Coursera.
7. A. Kathirvel, Create a Budget with Google Sheets, certificate of non-credit course study offered by Coursera Project Network and offered through Coursera.
8. A. Kathirvel, Cybersecurity and the Internet of Things, certificate of non-credit course study offered by University System of Georgia and offered through Coursera.

1. Selvaraj Naveneethan,, Madhan E.S., Kathirvel A. (2022) Identifying and Eliminating the Misbehavior Nodes in the Wireless Sensor Network. In: Reddy V.S., Prasad V.K., Wang J., Reddy K. (eds) Soft Computing and Signal Processing. ICSCSP 2021. Advances in Intelligent Systems and Computing, vol 1413. Springer International Publishing, Springer, Singapore. https://doi.org/10.1007/978-981-16-7088-6_36
2. Kathirvel, A., Sudha, D., Naveneethan, S., Subramaniam, M., Das, D. & Kirubakaran, S. AI Based Mobile Bill Payment System using Biometric Fingerprint. American Journal of Engineering and Applied Sciences, 15(1), 23-31. <https://doi.org/10.3844/ajeassp.2022.23.31>
3. Sudha, D., & Kathirvel, A. The Effect of ETUS in Various Generic Attacks in Mobile Ad hoc Networks to Improve the Performance of AODV Protocol. International Journal of Humanities, Law and Social Sciences, 9(1), 23-31, 2022.
4. A. Kathirvel, M. Subramaniam, S. Navaneethan and C. Sabarinath, "Improved IDR Response System for Sensor Network", ", Journal of Web Engineering, Vol. 20 1, 53–88, 2021. Publisher: © River Publishers, 15 Feb 2021, ISSN: 1540-9589 (Print Version),. ISSN: 1544-5976 (Online Version), <https://doi.org/10.13052/jwe1540-9589.2013>
5. M. Subramaniam, A. Kathirvel, E. Sabitha and H. Anwar Basha, "Modified Firefly Algorithm and Fuzzy C-Mean Clustering Based Semantic Information Retrieval", Journal of Web Engineering, Vol. 20 1, 33–52, 2021. . Publisher: © River Publishers, 15 Feb 2021, ISSN: 1540-9589 (Print Version),. ISSN: 1544-5976 (Online Version), <https://doi.org/10.13052/jwe1540-9589.2012>
6. A Kathirvel and Subramaniam M, "Improved Intrusion Detection and Response System for Wireless Sensor Network",International Journal of Forensic Sciences (IJFSC), International Journal of Forensic Sciences (IJFSC), Vol. 5, No. 3, pp. 1 - 15, 2020. Medwin Publishers <https://doi.org/10.23880/ijfsc-16000203>
7. R. Sundar and Dr. A.Kathirvel, “ Aggressively delivered mechanism over variable length density using a simulated annealing algorithm in mobile ad hoc network”, Transactions on Emerging Telecommunications Technologies, 2020, e38632020, pp. 1 – 13. Publisher:Wiley-Blackwell, ISSN:2161-5748 E-ISSN:2161-3915. <https://doi.org/10.1002/ett.3863>
8. R. Sundar and Dr. A.Kathirvel, “Enhanced Cluster Based Stable Path for Load Balancing and Reducing Overhead using Artificial Bee Colony in Manets”, International Journal of Vehicle Information and Communication Systems, Vol.5, No.1, pp. 41 -54, 2020. Inderscience Publishers Ltd. Publisher: © John Wiley & Sons Ltd. ISSN:1471-0242 E-ISSN:1741-8208.

9. R. Sundar and Dr. A.Kathirvel, “Efficient prior path failure recovery algorithm using channel aware routing in manet”, International Journal of Innovative Technology and Exploring Engineering, Vol. 8, No. 5, pp. 97-103, 2019. Publisher: Blue Eyes Intelligence Engineering and Sciences Publication, E-ISSN:2278-3075.
10. K.Hamela and Dr.A.Kathirvel,"EIMO-ESOLSR: Energy Efficient and Security Based Model for OLSR Routing Protocol in Mobile Ad Hoc Network", IET Communication, Vol. 13, No. 5, pp. 553-559, 2019. Publisher :Institution of Engineering and Technology, ISSN 17518628. <https://doi.org/10.1049/iet-com.2018.5564>
11. K.Hamela and Dr.A.Kathirvel,"Multi Objective ALO based Energy Efficient and Secure routing OLSR Protocol in MANET", International Journal of Intelligent Engineering and Systems, Vol. 12, No. 1, pp. 74-83, 2019. Publisher: Intelligent Network and Systems Society, ISSN 2185310X, <http://www.inass.org/2019/2019022808.pdf>
12. J.P.Josh Kumar and Dr.A.Kathirvel, “Analysis and ideas for improved routing in MANET”, International Journal of Interactive Mobile Technologies, Vol. 13, No. 4, pp. 164-177, 2019. Publisher: International Association of Online Engineering, ISSN 18657923 DOI: <https://doi.org/10.3991/ijim.v13i04.9928>
13. N.Sangeetha and Dr.A.Kathirvel,"Quantification of Epicardial and Thoracic Adipose Tissue using WOA Optimized CNN", International Journal of Innovative Technology and Exploring Engineering, Vol. 8, No. 9S2, pp. 720-724, 2019.
14. Dr.A.Kathirvel and Dr.N.Saravanan, “National Board of Accreditation Criteria for BHMCT an Overview”, Journal of Bussiness and Hotel Management, SciTechnol Publisher, pp. 1 – 4, 2018.
15. J.P.Josh Kumar and Dr.A.Kathirvel, “Optimum Power Management In Mobile Ad Hoc Networks”, Journal of Engineering Science And Technology, Taylor’s & Series Publisher, Vol. 13, No. 6, pp. 1805 – 1815, 2018. ISSN 18234690 Publisher:Taylor's University <https://www.scopus.com/record/display.uri?eid=2-s2.0-85050153032&origin=resultlist>
16. Shobhanjaly P Nair and Dr.A.Kathirvel, “Ciphertext Attribute Based Encryption Algorithm to Confiscate De-Duplication in Hybrid Cloud Storage”, International Journal of Advance Research, Ideas and Innovations in Technology, Vol.4, No. 3, pp. 1678 – 1686, 2018.
17. D. Sudha and Dr. A. Kathirvel. “Defended Data Transmission using Trust Calculation Method in Mobile Ad Hoc”, Shanlax International Journal of Arts, Science and Humanities, Vol. 5, No. 3, Apr 2018, pp. 60 - 71. ISSN No:2321 – 788x.
18. K.Hamela and Dr.A.Kathirvel," Alleviating black hole attack in olsr protocol adopting an

evolutionary game theory approach for manet", Journal of Advanced Research in Dynamical and Control Systems, Vol. 9, pp. 666-678, 2017. ISSN 1943023X Publisher: Institute of Advanced Scientific Research, Inc. <https://www.scopus.com/record/display.uri?eid=2-s2.0-85047057278&origin=resultslist>

19. K.Hamela and Dr.A.Kathirvel,"Measuring Performance of OLSR and EOLSR during Routing Attack", International Journal of Innovative Research in Computer and Communication Engineering, Vol. 5, No. 2, pp. 171 - 177, 2017.
20. K.Hamela and Dr.A.Kathirvel, "Securing Olsr From Various Routing Protocol Attack", Maha journal of education, Vol. 4, No.1, March 2017. ISSN No. 2348 – 8840.
21. K.Hamela and Dr.A.Kathirvel, "Analysis of Routing protocol attacks in MANET", Shanlax Publications, February 2017, pg 91-95. ISBN: 978-81-933316-6-8.
22. K.Hamela and Dr.A.Kathirvel, "Performance Evaluation of Optimized Link State Routing Protocol for MANET", Indo Global Journal of Applied Management Science - Vol.04, No. 3, pp. 78-81, August 2016. ISSN 2320-7892.
23. R. Sundar and Dr. A.Kathirvel, "Efficient Multipath Transmission based on Load Sharing Metrics Instead of Load Balancing in Manet", Indian Journal of Science and Technology, Vol. 9, No. 35, 2016, pp. 1 – 6.
24. K.Hamela and Dr. A.Kathirvel, "A Performance Study of Hybrid Routing Protocol using Mobile Adhoc Networks", International Journal of Emerging Trends in Science and Technology, Vol.3, No.3,2016,pp. 243 - 245. ISSN 2348-9480.
25. Jothiraj.R and Kathirvel.A, "A Mathematical Based Performance Comparison of TUS and Strong Triple Connected Domination Sets for MANET", International Journal on Recent Researches in Science, Engineering & Technology, Vol.4, No.2, 2016, pp 1-13.
26. D. Sudha and Dr. A. Kathirvel. "The Security Schemes Implemented in Mobile Ad-Hoc Networks", International Journal of Advanced Research in Computer and Communication Engineering, Vol. 5, No. 4, Apr 2016, pp. 457-461. ISSN No:2278 – 1021.
27. D. Sudha and Dr. A. Kathirvel. "A Survey of Security Measures in Mobile Ad-Hoc Networks", International Journal of Research in Computing Science, Technology & Engineering, Vol. 3, No. 1, Mar 2016, pp. 27-29. ISSN No:4527 – 2735.
28. D. Sudha and Dr. A. Kathirvel. "Literature Study on Various Privacy Preserving Routing Protocols for MANET", Shanlax International Journal of Arts, Science and Humanities, Vol. 3, No. 1, Sep 2015, pp. 27-29. ISSN No:2321 – 788X.
29. R. Sundar and Dr. A.Kathirvel, " Enhanced trust based delegation for load balancing in manets",

30. Jothiraj.R and Kathirvel.A, “A Mathematical Based Performance Comparison of TUS and Strong Triple Connected Domination Sets for MANET”, Arunai International Journal of Engineering and Technology, vol.1, No.1, 2015, pp 28-33.
31. K.Hamela and Dr.A.Kathirvel, “Tree-Based and Mesh-Based Multicast Routing Protocol for MANET - A Survey”, Shanlax International Journal of Arts, Science & Humanities, Special Issue No. 1, September 2015. ISSN: 2321-788X.
32. R. Sundar and Dr. A.Kathirvel, “Enhanced Routing Algorithm to Reduce Number of Transmission in Manet”, Australian Journal of Basic and Applied Sciences, Vol. 9, No. 35, 2015, pp. 142 – 146. [https://www.idosi.org/mejsr/mejsr23\(8\)15/21.pdf](https://www.idosi.org/mejsr/mejsr23(8)15/21.pdf)
33. A.Vinodh Kumar, S.Kaja Mohideen and Dr.A.Kathirvel, “Performance Enhanced Reverse AODV Routing Protocol for MANETs”, Middle-East Journal of Scientific Research, Vol. 23, No. 8, 2015, pp. 1720 – 1726. DOI: 10.5829/idosi.mejsr.2015.23.08.22467
34. R. Sundar and Dr. A.Kathirvel, “Enhanced Trust Based Delegation for Load Balancing in Manets”, International Journal of Applied Engineering Research, Vol. 10, No. 92, 2015, pp. 104 – 109.
35. Josh kumar and Dr.A.Kathirvel, “A Unified Approach for Detecting and Eliminating Selfish Nodes in MANETs using TBUT”, Eurasip Journal on Wireless Communications and Networking, Vol. 2015, pp. 1 – 13. Impact factor:0.80. Publisher: Springer International Publishing, ISSN:1687-1472 E-ISSN:1687-1499, <https://jwcn-urasipjournals.springeropen.com/articles/10.1186/s13638-015-0370-x>
36. M.Kiranmayi and Dr. A.Kathirvel, “Underwater Wireless Sensor Networks: Applications, Challenges and Design Issues of the Network Layer – a Review”, International Journal of Emerging Trends in Engineering Research, Vol.3, No.1, 2015, pp.05 – 11.
37. D.Mohana geetha, S.K.Muthusundar, Dr.M.Subramaniam and Dr.A.Kathirvel, “Temporary Redundant Transmission Mechanism for SCTP Multihomed Hosts”, The Scientific World Journal, Vol. 2015, pp.1 - 10. Impact factor:1.27, "The World Scientific Journal"- Hindawi Publishers, Article ID 158697, 10 pages, <http://dx.doi.org/10.1155/2015/158697>
38. K.C.Suresh, S. Prakash, A.E.Priya and Dr.A.Kathirvel, “Primary Path Reservation Using Enhanced Slot Assignment in TDMA for Session Admission”, The Scientific World Journal, Vol.2014, pp. 1 – 11. Impact factor:1.27, "The World Scientific Journal"- Hindawi Publishers, Article ID 158697, 10 pages, <http://dx.doi.org/10.1155/2015/405974>
39. Dr. A.Kathirvel, “Is ABET Accreditation required for the Deemed Universities”, The International

40. Dr.A.Kathirvel, “An Overview of Under Water Sensor Networks Routing Protocols”, Asian Journal of Computer Science and Technology, Vol. 3, No. 2, 2014, pp. 4 – 8.
41. N.Kirubakaran and Dr.A.Kathirvel, “Performance Improvement of Security Attacks in Wireless Mobile Ad Hoc Networks”, Asian Journal of Information Technology, Vol. 13, No. 2, 2014, pp. 68 – 76. ISSN 16823915, Publisher: Medwell Journals <https://www.scopus.com/record/display.uri?eid=2-s2.0-84899507846&origin=resultslist>
42. Dr.A.Kathirvel, “Under Water Sensor Networks Routing Protocols”, International Journal of Recent Researches in Science, Engineering and Technology, Vol. 2, No. 10, 2014, pp. 1 – 6.
43. Dr.A.Kathirvel, “Under Water Sensor Networks Routing Protocols”, Romanian Journal of Social Sciences, Vol. 1, No. 1, 2014, pp. 31 – 38.
44. Dr.A.Kathirvel, “Condense Clock Skew in Routing Integrated Time Synchronization with SPR in WSN”, International Journal of Computer Engineering & Sciences, Vol. 4, No. 1, 2014, pp. 11 – 15.
45. S. Yuvasri, Dr. A. Kathirvel, and S. T. Lenin, “Energy Efficient location privacy preserving based data transfer using LAR method in Mobile Network”, International Journal of Enhanced Research in Science Technology & Engineering, Vol. 3, No. 1, 2014, pp. 164-170.
46. S.Fowjiya, A.Udhayachandrika and Dr.A. Kathirvel, “Architectural Overview of Delay Tolerant Network”, International Journal of Engineering Sciences & Research Technology, Vol. 2, No. 10, 2013, pp. 2922 – 2926. Impact Factor: 1.852
47. M.Malathi, M.Nisha and Dr.A. Kathirvel, “Image Based Descriptors Conflation for Voiture Detection”, International Journal of Engineering Research & Technology, Vol. 2, No. 11, 2013, pp. 2339 – 2344.
48. J.Abirami, Dr.A. Kathirvel and T.Ragul Zenith, “Enhancement of Multi-Radio Multi-Channel with TCP Tuning for Mesh Networks”, International Journal of Computer Science and Mobile Computing, Vol. 2, No. 12, 2013, pp. 220 – 223.
49. C.Priyanka, Dr.A. Kathirvel and R.Sangeetha, “Self-Adaptive Context Data Distribution Infrastructures for Mobile Systems”, International Journal of Computer Science and Mobile Computing, Vol. 2, No. 12, 2013, pp. 224 – 228.
50. S.Navaneethan, and Dr.A. Kathirvel, “A Data Packet Transmission Authentication using Multicast Routing Protocol”, International Journal of Advanced and Innovative Research, Vol. 2, No. 7, 2013, pp. 226 – 231.
51. S.B.Manoojkumar, and Dr.A. Kathirvel, “Faulty Node Detection in Multirate any path Routing Protocol in Multi-Hop Wireless Networks”, International Journal of Engineering and Computer

Science, Vol. 2, No. 9, 2013, pp. 2698 – 2701.

52. Dr. A.Kathirvel, “Umpiring Security Models for MANETs”, Journal of Computer Science and Technology, Vol. 12, No. 1, 2012, pp. 39 – 40.
53. Dr. A.Kathirvel, and Dr. R. Srinivasan, “Double Umpiring System for Security of Mobile Ad Hoc Network”, International Journal of Wireless Network and Applications, Vol. 1, No. 2, 2011, pp. 151 - 162.
54. Dr. A.Kathirvel and Dr. Rajabushanam, “System of One to Three Umpire Security System for Wireless Mobile Ad hoc Network”, Journal of Computer Science, Vol. 7, No. 12, 2011, pp. 1854 – 1858. ISSN: 1549-3636 (Print), ISSN: 1552-6607 (Online), Science Publications, DOI: <https://doi.org/10.3844/jcssp.2011.1854.1858>
55. Dr. A.Kathirvel, M. Subramaniam and Dr. Rajabushanam, “Burglar Detecting System for Wireless Mobile Ad hoc Network”, European Journal of Scientific Research, Vol. 62, No. 1, 2011, pp. 14 – 23. Publisher:European Journals Inc. ISSN:1450-202X <https://www.scopus.com/sourceid/4400151716>
56. Dr. A.Kathirvel and R.Vetriselvi, “Robustness of Self Umpiring System for Security in Wireless MANETs”, Indian Journal of Information Science and Technology, Vol. 6, No. 2, 2011, pp. 1 – 16.
57. Dr. A.Kathirvel and M. Subramaniam, “Power and Mobility Aware Protocol for Wireless MANETs”, Indian Journal of Information Science and Technology, Vol. 6, No. 2, 2011, pp. 39 – 49.
58. Dr. A.Kathirvel and M. Subramaniam, “Hidden Terminal Detection in IEEE 802.11b based MANETs”, Indian Journal of Computing Technology, Vol. 6, No. 1, 2011, pp. 1 – 14.
59. Dr. A.Kathirvel and P.Sivaraman, “Double Umpiring System for Ad Hoc Wireless Mobile Network Security”, The International Journal of Forensic Computer Science, Vol. 5, No. 1, 2011, pp. 22 – 29.
60. Dr. A.Kathirvel, “Single Umpiring System for Security and Performance Improvement in Mobile Ad Hoc Networks”, The IASMS Journal of Business Spectrum, Vol. IV, No. 2, July 2011, pp. 30 - 41.
61. A.Kathirvel, and Dr. R. Srinivasan, “ETUS: An Enhanced Triple Umpiring System for Security and Performance Improvement of Mobile Ad Hoc Networks”, International Journal of Network Management, John Wiley & Sons, Vol. 21, No. 5, September/October 2011, pp. 341 - 359. Publisher: © John Wiley & Sons Ltd. Wiley-Blackwell ISSN:1055-7148 E-ISSN:1099-1190 <https://doi.org/10.1002/nem.761>
62. A.Kathirvel, and Dr. R. Srinivasan, “ETUS: An Enhanced Triple Umpiring System for Security and Robustness of Mobile Ad Hoc Networks”, International Journal of Communication Networks and Distributed Systems, Inderscience, Vol. 7, Nos.1 / 2, 2011, pp. 153 – 187. Publisher:Inderscience

63. A.Kathirvel, and Dr. Rajabushanam, “Survey of Wireless Manet Application in battlefield operations”, International Journal of Advanced Computer Science and Application, Vol. 2, No. 1, January 2011.
64. A.Kathirvel, and R. Srinivasan, “Double Umpiring System for Security in Wireless Mobile Ad Hoc Networks”, International Journal of Research and Reviews in Computer Science, Vol. 1, No. 4, 2010, pp. 17 – 22.
65. A.Kathirvel, R. Srinivasan, “Analysis of Propagation Model using Mobile Ad Hoc Network Routing Protocols”, International Journal of Research and Reviews in Computer Science, Vol. 1, No. 1, 2010, pp. 7 – 14.
66. A.Kathirvel, and Dr. R. Srinivasan, “Self Umpiring System for Security in Wireless Mobile Ad-Hoc Network”, Journal of Wireless Sensor Network, Vol. 2, No. 3, 2010, pp 264 – 266.
67. A.Kathirvel, and Dr. R. Srinivasan, “Enhanced Self Umpiring System for Security using Salvaging Route Reply”, International Journal of Computer Theory and Engineering, Vol. 2, No. 1, 2010, pp. 129 – 134.
68. A.Kathirvel, and Dr. R. Srinivasan, “A System of Umpires for Security of Wireless Mobile Ad Hoc Network”, International Arab Journal of e-Technology, Vol. 1, No. 4, 2010, pp 129 – 134.
69. A.Kathirvel, and Dr. R. Srinivasan, “Double Umpiring System for Security in Mobile Ad Hoc Networks”, International Journal of Wireless Networks and Communications, Vol. 2, No. 1 & 2, 2010, pp. 67 – 78.
70. A.Kathirvel, and Dr. R. Srinivasan, “Enhanced Triple Umpiring System for Security and Performance Improvement in Wireless MANETS”, International Journal of Communication Networks and Information Security, Vol. 2, No. 2, 2010, pp. 77 – 84. Publisher:Institute of Information Technology, Kohat University of Science and Technology, ISSN:2076-0930 E-ISSN:2073-607X, <https://www.scopus.com/sourceid/19900195075?origin=resultslist>
71. A.Kathirvel, and Dr. R. Srinivasan, “Self_USS: A Self Umpiring System for Security in Mobile Ad-Hoc Network”, International Journal of Engineering and Technology, Vol. 2, No. 2, 2010, pp. 196 – 203.
72. A.Kathirvel, and Dr. R. Srinivasan, “A Study on Salvaging Route Reply for AODV Protocol in the Presence of Malicious Nodes”, International Journal of Engineering and Technology, Vol. 1, No. 2, 2009, pp. 151 – 155.
73. A.Kathirvel, and Dr. R. Srinivasan, “Performance Analysis of Propagation Model using Wireless Mobile Ad hoc Network Routing Protocols”, International Journal of Wireless Communication, September 2009.

74. A.Kathirvel, and Dr. R. Srinivasan, "A System of Umpires for Security of MANET", International Journal of Networking and Communication Engineering, May 2009.
75. A.Kathirvel, and Dr. R. Srinivasan, "Single Umpiring System for Security of Mobile Ad Hoc Networks", Journal of Advances in Wireless and Mobile Communications, Vol. 2, No. 2, 2009, pp. 141 – 152.
76. A.Kathirvel, and Dr. R. Srinivasan, "Triple Umpiring System for Security of Mobile Ad Hoc Networks", International Journal of Engineering and Information technology, Vol 1, No 2, pp. 95 – 100, 2009.
77. A.Kathirvel, and Dr. R. Srinivasan, "Global Mobile Information System Simulator in Fedora Linux", ACM Computer Communication Review, 2009.
78. A.Kathirvel and M.Subburamani. Simulation of Interactive Voice Response System over Mobile Phone. Indian Journal of Information Science and Technology, Vol. 1, No. 1, 2005, pp. 27 – 32.
79. A.Kathirvel and M.Subburamani. Knowledge Management an Overview. Indian Journal of Information Science and Technology, Vol. 1, No. 2, 2005, pp. 56 – 60.

Conferences– International & National

1. Selvaraj Navaneethan,., Madhan E.S., Kathirvel A. (2022) Identifying and Eliminating the Misbehavior Nodes in the Wireless Sensor Network. In: Reddy V.S., Prasad V.K., Wang J., Reddy K. (eds) Soft Computing and Signal Processing. ICSCSP 2021. Advances in Intelligent Systems and Computing, vol 1413. Springer International Publishing, Springer, Singapore. https://doi.org/10.1007/978-981-16-7088-6_36
2. Dr. A.Kathirvel, "Performance Comparison of ALOHA Protocol for Wireless Sensor Networks ", on 4th Asian Conference on Science Technology & Medicine (ACSTM) 2021, Deira Dubai, UAE hosted from November 20-21, 2021
3. S. Navaneethan and Dr. A.Kathirvel, "Detecting Intruders and Packet Trappers in Wireless Sensor Networks", on Machine Learning and Cyber Security in Industry 4.0", held on 20th – 21st Oct 2021, organized by S A Engineering College, Chennai.
4. Dr. A.Kathirvel, "IOT Based Smart Industry Monitoring and Alerting System", on Virtual International Research Conference on "IoT, Cloud and Data Science", held on 23rd – 24th Apr 2021, organized by SRM Institute of Science and Technology, Vadapalani, Chennai.
5. S. Navaneethan and Dr. A.Kathirvel, "An Overview and Introduction to Wireless sensor networks",

- on National E-Conference on "Recent Trends in Computational Intelligence", held on 9th Apr 2021, organized by Bharath Institute of Higher Education and Research, Chennai.
6. S. Navaneethan and Dr. A.Kathirvel, "Energy utilizing in Wireless sensor networks", on National Conference on "Business Dynamics: Local to Global", held on 5th and 6th Feb 2021, organized by Dr D Y Patil Institute of Management Studies, Pune.
 7. S. Navaneethan and Dr. A.Kathirvel, "A Secured Multicast Routing Protocol for Wireless Sensor Networks" on AICTE sponsored International Virtual Conference on Antenna Innovations, 5G Communications and Network Technologies held during 6th – 7th Nov 2020, organized by Department of ECE, Velammal Institute of Technology, Chennai.
 8. J.P. Josh Kumar and Dr. A.Kathirvel, "Analyzing the Node Exhaustion in Mobile Ad Hoc Networks due to location", 5th International Conference on Science Technology Engineering and Mathematics, pp.16 -20, 2019.Publisher: IEEE, IEEE International Conference on Science, Technology, Engineering and Mathematics, ICONSTEM 2019 Chennai 14 March 2019 - 15 March 2019.
<https://doi.org/10.1109/ICONSTEM.2019.8918706>
 9. D. Sudha and Dr. A. Kathirvel, "Defended Data Transmission using Trust Calculation Method in Mobile AdHoc Network",National Seminar on Emerging Trends in Physical, Natural and Information Science, S.E.A College of Science, Commerce & Arts, Bangalore ,2018.
 10. K.Hamela and Dr. A.Kathirvel, "Trust-Based Multi-point Relay Selection Algorithm for Enhancing Security in Mobile Adhoc Network", International Conference on 'Trends and Innovations Implying Future Technology', St.Claret College ,Bangalore, 2017.
 11. K.Hamela and Dr. A.Kathirvel, "Measuring Performance of OLSR and EOLSR during Routing Attack", International Conference "Tec'afe 2017- Recent Trends in IT Innovations, Garden City College, Bangalore, 2017.
 12. K.Hamela and Dr. A.Kathirvel, "Securing OLSR from various routing protocol attacks", 6th International Conference on Strategic shift in Business Excellence for sustainable development in Indo-Global business and technology, Sri Ganesh School of Business Management, Salem, 2017.
 13. K.Hamela and Dr. A.Kathirvel, "A graph theory algorithm to find shortest path in Routing Protocol", UGC sponsored National Conference on Recent Advances in Mathematical Sciences, Government Science College, Bangalore, 2017.
 14. D. Sudha and Dr. A. Kathirvel, "Comparative Analysis of Trust Based Security Models in MANET",National Conference on Competency Building Strategies in Business and Technology for sustainable Development, S.E.A College of Science, Commerce & Arts, Bangalore,2017.
 15. D. Sudha and Dr. A. Kathirvel, "A Review of Various Security Threats in MANET",National

Conference on Digital Transformation-Challenges and Outcomes, St.Anne's First Grade College for Women, Bangalore,2017.

16. D.Sudha and Dr. A.Kathirvel, "Comparative analysis of trust based security Models in MANET", National conference on Competency building strategies in Business and Technology for sustainable development, Sea College, Bangalore, 2017.ISBN No:978-81-933316-6-8.
17. K.Hamela and Dr. A.Kathirvel, "Analysis of Routing protocol attacks in MANET", National conference on Competency building strategies in Business and Technology for sustainable development, Sea College, Bangalore, 2017.
18. K.Hamela and Dr. A.Kathirvel, "A Proactive Routing Protocol-OLSR", National conference on Emerging Trends in IT in today's Business Scenario, Koshys Institute of Management Studies, Bangalore, 2016.
19. K.Hamela and Dr. A.Kathirvel, "A performance study of Hybrid Routing Protocol using Mobile Adhoc Network", International Conference on Breakthrough in Engineering, Science & Technology, Institute of Engineering Research, Bangalore, 2016
20. K.Hamela and Dr. A.Kathirvel, "A study on MAODV and ODMRP in Mobile Adhoc Network", National conference on Innovative Trends in Information Technology, KG College of Arts and Science, Coimbatore, 2016
21. K.Hamela and Dr. A.Kathirvel, "A Performance Study of Hybrid Routing Protocol using Mobile Adhoc Networks", International Conference on Breakthrough in Engineering, Science and Technology (INC BEST 2016), Salem, 2016.
22. D. Sudha and Dr. A. Kathirvel, "A Survey of Security Measures in Mobile Ad-Hoc Networks",National Conference on Innovative Trends in IT (NCITIT), Park's College, Tirupur,2016.
23. R. Sundar and Dr. A.Kathirvel, "Enhanced Routing Algorithm to Reduce Number of Transmission in Manet", 1st International Conference on Advances in Science, Management and Engineering (AICME2015), International Organization of Scientific Research and Development (IOSRD), Chennai, India, 2015.
24. R. Sundar and Dr. A.Kathirvel, "Enhanced trust based delegation for load balancing in manets", 1st International Conference on Advances in Science, Management and Engineering (AICME2015), International Organization of Scientific Research and Development (IOSRD),Chennai, India, 2015.
25. R.Jothiraj and Dr.A.Kathirvel, "A Mathematical Based Performance Comparison of TUS and Strong Triple Connected Domination Sets for MANET", International Conference on Mathematical Computer Engineering (ICMCE), Vol.1, pp.12, VIT University, Chennai, 2015.
26. V.Janani, L. Monochitra and Dr.A.Kathirvel, "Multinode Data Streaming for Secured Transmission

- of Provenance”, Second International Conference on Computing, Communication and Advanced Networks (ICCAN), Chennai, 2015.
27. D.Ananda Geedhan, J. Barath Raj, I.Vetrivelan and Dr.A.Kathirvel, “Congestion Prediction in Wired Network Using Gene Expression Programming Technique”, National Conference on Recent Trends in Computing (NCRTC), Chennai, 2015.
 28. K.Hamela and Dr. A.Kathirvel, “Tree-Based and Mesh-Based Multicast Routing Protocol for MANET - A Survey”, National conference on Emerging Trends in IT, Islamiah Women's Arts & Science College, Vaniyambadi,2015.
 29. K.Hamela and Dr. A.Kathirvel, “A Comparative Study of Multicast Reactive Routing Protocols”, National conference on Innovative Trends in Information Technology, National conference on Emerging Trends in IT, Islamiah Women's Arts & Science College, Vaniyambadi,2015.
 30. D. Sudha and Dr. A. Kathirvel, "Analysis on Various Protocols for MANET",National Conference on Emerging Trends in IT, Islamiah Women's Arts & Science College, Vaniyambadi,2015.
 31. D. Sudha and Dr. A. Kathirvel, "Literature Study on Various Privacy Preserving Routing Protocol for MANET",National Conference on Emerging Trends in IT, Islamiah Women's Arts & Science College, Vaniyambadi,2015.
 32. A. Vinodth Kumar, Dr. S. Kaja Mohideen and Dr. A.Kathirvel, “Enhanced Reverse Ad Hoc On Demand Vector Routing Protocol for Wireless Mobile Ad Hoc Networks”, International Conference on Electrical, Electronics and Computer Engineering (ICEECE), VCEW, Namakkal, 2015.
 33. J.P. Josh Kumar and Dr. A.Kathirvel, “Eliminating Selfish Nodes in Ad Hoc Networks using Token Based Umpiring Technique”, International Conference on Electrical, Electronics and Computer Engineering (ICEECE), VCEW, Namakkal, 2015.
 34. Sundar and Dr. A.Kathirvel, “Enhanced Reverse AODV Routing Protocol for MANETs”, International Conference on Electrical, Electronics and Computer Engineering (ICEECE), VCEW, Namakkal, 2015.
 35. Kiranmayi Sarathbabu and Dr. A.Kathirvel, “Underwater Wireless Sensor Networks: Applications, Challenges and Design Issues of the Network Layer”, International Conference on Electrical, Electronics, Mechanical, Computer Engineering (ICEEMC), Chennai, 2015.
 36. K.Hamela and Dr. A.Kathirvel, “A Comparative Study of Multicast Reactive Routing Protocols”, National Conference on Emerging Trends in IT (NCETI), Vaniyambadi, 2015.
 37. J.P. Josh Kumar and Dr. A.Kathirvel, “Performance Improvement of Security Attacks in Wireless Mobile Ad Hoc Networks”, International Conference on Communications, Networking and Signal Processing (ICCNASP), VIT University, Vellore, 2013.

38. Treesa Mary Franco and Dr.A.Kathirvel, "Improving Energy Efficiency In Wireless Sensor Network Using Mlcd", National Conference on Innovation in Computers (NCIC), 2013.
39. Dr. A.Kathirvel, and Liji Sara Varghese, "High Throughput Multicast Routing in Wireless Mesh Network using Rate Guard Scheme",National Conf. on Current Trends in Computing,(NCCTC), 2012.
40. Dr. A.Kathirvel, M.S.Bagavathiammal and M.Minhajunnisa, "Mobile camera as WebCam Through Bluetooth as Connection Interface", National Conference on Recent Trends in Communication and Signal Processing, (NCRTCSP), 2012.
41. Dr. A.Kathirvel, M.S.Bagavathiammal and M.Minhajunnisa, "Challenges in Vehicular Ad Hoc Network", National Conference on Recent Trends in Computer and Application, (NCRCTCA), 2012.
42. Dr. A.Kathirvel and O.Sandhya, "Trust Management in MANET", National Conference on Recent Trends in Information Security (NCRCTIS), 2012.
43. Dr. A.Kathirvel, P.Sivaraman, Vetriselvi and M.Subramaniam, "Application of Mobile Banking in Today's Scenarios", International Conference on Biomedical Instrumentation, Engineering and Environmental Management (ICBEEM), 2011.
44. Dr. A.Kathirvel and Anju Mary Joseph, "Dynamic Approach Of Using RPCM In Wireless Networks", Third National Conference on Computing and Communication Technologies (N3CT), 2011.
45. Dr. A.Kathirvel and Saranya George, "Innovative Approach Of Using A Timeserving Routing Technique in Hybrid Wireless Networks", Third National Conference on Computing and Communication Technologies (N3CT), 2011.
46. Dr. A.Kathirvel, N.K. Sethu & R.H.Asathy, "Robustness of Self Umpiring System for Security in Wireless Mobile Ad Hoc Networks", National Multiconference on Innovative Computing Tech., 2011.
47. Dr. A.Kathirvel, V. Rajasekar and E.Kathirvel, "Power and Mobility Aware Protocol for Wireless Mobile Ad Hoc Networks", National Multiconference on Innovative Computing Technology, 2011.
48. S J Sultanuddin, P V Gopirajan and Dr. A.Kathirvel, "Wireless Sensor Network for Liquid and Gas Field Pipeline Monitoring", National Multiconference on Innovative Computing Technology, 2011.
49. Dr. A.Kathirvel, N.K. Sethu and R.H.Asathy, "Robustness of Self Umpiring System for Security in Wireless Mobile Ad Hoc Networks", National Multiconference on Innovative Comp. Technology, 2011.

50. P.S. Sheik Uduman, A.Kathirvel, S.Srinivasan, A.Shaik Abdul Khadir and S. Rajasekaran, "Fractal Based Feature Extraction Method", International Conference on Mathematical Applications in Engineering (ICMAE), Kuala Lumpur, Malaysia, 2010.
51. A.Kathirvel and P.N. Renjith, "Trust Evaluation Based Routing Solution for Ad Hoc Networks" Sixth National Conference on Webtechnology and Open Source (WEBTOPS), 2010.
52. A.Kathirvel and P.Varalakshmi, "On Demand Secure Route Recovery using AODV Routing" National Conference on Intelligent Information and Distributed Computing (NCIIDC), 2010.
53. A.Kathirvel and P.Varalakshmi, "Detecting Black Hole Attack in Mobile Ad Hoc Networks" National Conference on Intelligent Information and Distributed Computing (NCIIDC), 2010.
54. A.Kathirvel, R. Sudha and R.M. Devanai Sundaram, "A System of Tool for Identifying Ragas Using MIDI," IEEE Second International Conference on Computer and Electrical Engineering, Dubai, UAE, Vol. 2, 2009, pp. 644 – 647. Article number 53802592009 International Conference on Computer and Electrical Engineering, ICCEE 2009 28th– 30th December 2009 ISBN 978-076953925-6 DOI: 10.1109/ICCEE.2009.49 <https://ieeexplore.ieee.org/document/5380259>
55. A.Kathirvel, and P.Vinoth. Secure Co-operation in Autonomous MANET. Second National Conference on Emerging Trends in Engineering & Technology (SNCETET), 2009.
56. A.Kathirvel, and B.Palanisamy. Enhancing Security by Multipath Routing in MANET. Second National Conference on Emerging Trends in Engineering & Technology (SNCETET), 2009.
57. A.Kathirvel and Dr.R.Srinivasan. Enhanced Salvaging Route Reply for Mobile Ad Hoc Networks with Malicious Nodes. International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE), University of Bridgeport, Bridgeport, USA, 2008.
58. A.Kathirvel and Dr.R.Srinivasan. Performance Enhanced Approach to Tolerating Route Errors in MANET. World Congress on Science, Engineering and Technology (WCSET) Vienna, Austria, 2008.
59. A.Kathirvel, Muthurajkumar.S and T.Nagamalar. An Optimized Polymorphic Hybrid Multicast Routing Protocol for MANET. National Conference on Research, Information and Technology (NCRICT), 2008.
60. A.Kathirvel. Adaptive on-demand routing using AHR mechanism. National Conference on Software, Telecommunications and computer networks(SOFTCOM), 2007.
61. A.Kathirvel and M.Subburamani. Enhancement of Knowledge Management an Overview. National Conference on Software, Telecommunications and computer networks(SOFTCOM), 2007.
62. A.Kathirvel, S.Subburam and Dr.R.Srinivasan. QOS Improvement of On-demand Routing protocols in MANET. Sixth IASTED International Conference on Wireless Networks and

Emerging Technologies (WNET), Banff, Canada, 2006.

63. A.Kathirvel and Dr.R.Srinivasan. Reactive Route Recovery for Link Failure in MANET. IEEE National Conference on Information and Communication Convergence (IEEE ICC), 2006.
64. A.Kathirvel, S.Subburam and Dr.R.Srinivasan. Performance Enhancement of On-Demand R routing Protocols in Mobile Ad-Hoc Networks. Second National Conference on Innovations in Information and Communication Technology (NCICT), 2006.
65. A.Kathirvel and S.Subburam. A System for Singer Voice Apperception. National Conference on Emerging Technologies and Applications (ETA), 2005.
66. A.Kathirvel and S.Subburam. Multimedia Based Gender Voice Recognition. National Conference on Emerging Technologies and Applications (ETA), 2005.
67. A.Kathirvel. An Interactive Based Tamil Speech Recognizer. National Conference on Distributed and Knowledge (NCDK), 2005.
68. A.Kathirvel, B.Kathiravan and P.Selvaraj. Simulation of Rate Based Congestion Control for High Speed ATM Network. International Conference on Soft Computing (INCSC), 2004.
69. A.Kathirvel and S.Subburam. Study of QoS Routing Protocols for the Mobile Ad-Hoc Network. National Conference on Emerging Trends in Engineering and Technology (ETET), 2004.
70. A.Kathirvel and Dr.R.Srinivasan. Mobile Banking an Overview. National Seminar on Emerging Technologies and Applications (ETA), 2004.
71. A.Kathirvel, N.Prakash. Interactive Multimedia for Asai-Based Talker System for Tamil Text. National Seminar on Emerging Technologies and Applications (ETA), 2004.
72. A.Kathirvel, N.Prakash and M.Subburamani. Asai Based Parser for Determining Phrase Boundaries for Text-To-Speech Synthesis. Kempelen Farkas Speech Research Laboratory Research Institute for Linguistics Hungarian Academy of Sciences, Budapest (Hungary), 2004.
73. A.Kathirvel and S.Subburam. Quality of Service requirements to mobile ad hoc network. National Conference on Network (NCON), 2003.
74. A.Kathirvel and P.Selvaraj. An Analysis of High Speed Internet Traffic for Quality of Service (QoS). National Conference on Network (NCON), 2003.

Scientific Reviewer

- Cluster Computing – Springer Publisher
- Journal of Super computer - Springer Publisher
- Nexus Network Journal Architecture and Mathematics
- Information Security Journal: A Global Perspective – Taylor & Francis Publisher

- Wireless Communications and Mobile Computing – Wiley Publisher
- Research Journal of Information Technology – Maxwell Science Publisher
- International Journal of Forensic Computer Science
- The Journal of Supercomputing – Springer Publisher
- Arabian Journal for Science and Engineering– Springer Publisher

Citation in Refereed Journals and Conference Proceedings

- More than 500 papers cited by different author's paper published in IEEE/ACM, Springer and Elsevier, journals in the world.

Scientific Paper Reviewed

- More than 250 papers review for various Journals and Conferences like IEEE/ACM, Wiley, Taylor & Francis and Elsevier journals.

Books Published and Laboratory Manuals

1. Dr.A. Kathirvel, "Performance Enrichment of Unicast Routing Protocol", LAP Lambert Academic Publishing GmbH & Co.Germany. Europe. ISBN-10 : 6203581917 ISBN-13 : 978-6203581911
2. Dr.A. Kathirvel and J P Joshkumar, "Performance Improvement of Reactive Routing Protocols", LAP Lambert Academic Publishing GmbH & Co.Germany. Europe. 2021. ISBN 978-620-3-58190-4.
3. Dr.A. Kathirvel, "Performance Enhancements of Secured Cross Layer Routing Protocols", LAP Lambert Academic Publishing GmbH & Co.Germany. Europe. 2018. ISBN 978-613-9-82416-8.
4. Dr.A.Kathirvel, J. Santhosh kumar and R. Praveen kumar, "Computer Programming", Charulatha Publications. Chennai, India, 2016.
5. Dr.A.Kathirvel, and J. Santhosh kumar "Computer Programming", Sri Maruthi Publishers. Chennai, India, 2016.
6. Dr.A.Kathirvel, and J. Santhosh kumar, "Computer Practices Laboratory", Sri Maruthi Publishers. Chennai, India, 2016.
7. Dr.A.Kathirvel, J. Santhosh kumar and R. Praveen kumar, "Computer Programming", Charulath a Publications. Chennai, India, 2015.
8. Dr.A.Kathirvel, and J. Santhosh kumar "Computer Programming", Sri Maruthi Publishers. Chennai, India, 2015.
9. Dr.A.Kathirvel, and J. Santhosh kumar, "Computer Practices Laboratory", Sri Maruthi Publishers. Chennai, India, 2015.
10. Dr.A.Kathirvel, "Introduction to GloMoSim", LAP Lambert Academic Publishing GmbH &

Co.Germany. Europe. 2011. ISBN 978-3-8473-2397-6.

11. Dr.A. Kathirvel, R.Srinivasan and Mohanambal, “Prevention of Attacks using Umpiring Security Model for MANETS”, LAP Lambert Academic Publishing GmbH & Co.Germany. Europe. 2011. ISBN 978-3-8484-9901-4.
12. Dr.A. Kathirvel, R.Srinivasan and Mohanambal, “Monograph: Umpiring Security Model & Performance Improvement on MANETS”, LAP Lambert Academic Publishing GmbH & Co.Germany. Europe. 2011. ISBN 978-3-8473-0621-9
13. Dr.A.Kathirvel, J. Santhosh kumar and R. Praveen kumar, “Computer Programming”, Sri Maruthi Publishers. Chennai, India, 2010.
14. Dr.A.Kathirvel, J. Santhosh kumar and R. Praveen kumar, “Computer Practices Laboratory”, Sri Maruthi Publishers. Chennai, India, 2010.

Lab Manuals

- More than 10 laboratory manuals prepared for different subjects in various colleges.

Book Chapters

1. D. Sujatha1, M. Subramaniam and A. Kathirvel, “**Chapter 11: Class Level Multi-Feature Semantic Similarity Based Efficient Multimedia Big Data Retrieval**”, **ARTIFICIAL INTELLIGENT TECHNIQUES FOR WIRELESS COMMUNICATION AND NETWORKING, Scrivener Publishing, John Wiley & Sons**, ISBN: 978-1-119-82127-4
2. Kathirvel A , S. Navaneethan and M. Subramaniam, “**Chapter 19:EIDR Umpiring Security Models for Wireless Sensor Network**”, **ARTIFICIAL INTELLIGENT TECHNIQUES FOR WIRELESS COMMUNICATION AND NETWORKING, Scrivener Publishing, John Wiley & Sons**, ISBN: 978-1-119-82127-4

Workshop/ Short term courses Conducted

1. Coordinator for 2 days works on “Effective Research on Block chain technology” organized by SRM Institute of Science and Technology, Chennai on 11th and 12th Feb 2021.
2. Course Director for 2 Weeks STTP on “Big Data Analytics in Bioinformatics” organized by M N M Jain Engineering College, Chennai on 04th – 17th Nov 2019.
3. Convener for 2 Weeks FDP on “Recent Trends in Internet of Things and Its Research Issues” organized by M N M Jain Engineering College, Chennai on 06th – 19th Nov 2019.
4. Convener for 3 days training programme on “Entrepreneurship Awareness Camp” organized by M N M Jain Engineering College, Chennai on 9th Jan 2019 – 11th Jan 2019.
5. Convener for 3 days training programme on “Entrepreneurship Awareness Camp” organized by M

N M Jain Engineering College, Chennai on 26th Sep 2018 – 28th Sep 2018.

6. Convener for 1 day Project Expo on “Recent Trends in Big Data” organized by M N M Jain Engineering College, Chennai on 17th Mar 2018.
7. Convener for 1 day National Science Day on “Science and Technology for a Sustainable Future” organized by M N M Jain Engineering College, Chennai on 28th Feb 2018.
8. Convener for 2 Weeks FDP on “Recent Trends in Big Data Analytics and Its Research Issues” organized by M N M Jain Engineering College, Chennai on 20th Nov 2017 – 02nd Dec 2017.
9. Convener for 3 days training programme on “Entrepreneurship Awareness Camp” organized by M N M Jain Engineering College, Chennai on 30th Aug 2017 – 01st Sep 2017.
10. Convener for 7 days FDTP on “CS6712 Grid and Cloud Computing Laboratory” organized by Anand Institute of Higher Technology, Chennai on 30th May 2016 - 05th June 2016.
11. Convener for 3 days workshop on “Data Center Virtualization Fundamentals” organized by Anand Institute of Higher Technology, Chennai on 12th Feb 2016.
12. Course Director for 10 days DST BDI sponsored training programme on "Big Data Analytics" organized by Anand Institute of Higher Technology, Chennai on 25th Apr 2016 - 5th May 2016 .
13. Convener for 1-day seminar on “Outcome Based - NBA” organized by Anand Institute of Higher Technology, Chennai on 12th Feb 2016.
14. Convener for 1-day seminar on “Blooms Taxonomy” organized by Anand Institute of Higher Technology, Chennai on 11th Feb 2016.
15. Convener for 1-day seminar on “How to do Good Research” organized by Anand Institute of Higher Technology, Chennai on 28th Dec 2015.
16. Convener for 1-day Science Exhibition - 2015 organized by Anand Institute of Higher Technology, Chennai on 23rd Jan 2015.
17. Convener for 1-day workshop on “How to do PhD Research and Research Issues in Wireless Sensor Network” organized by Anand Institute of Higher Technology, Chennai on 31st Dec 2014.
18. Convener for 1-day workshop on “Network Simulation using GloMoSim – 2.03” organized by Vivekanandha Education Institution, Namakkal. During 18th Feb 2014.
19. Convener for 1 day Seminar on “Big Data Opportunities and Challenges” organized by Vivekanandha Education Institution, Namakkal. During 19th Feb 2014.
20. Convener for 2-days Programme on “Mega Science Expo and Air Show 2013” organized by Vivekanandha Education Institution, Namakkal. During 19th Oct – 21st Oct 2013.
21. Convener for 6-days Programme on “New Faculty Development Programme for Fresher” organized by Karpaga Vinayaga College of Engg and Tech, Chennai. During 27th June – 5th July

- 2012.
22. Convener for “Workshop on Wired Network using GloMoSim and Network Simulator 2” organized by Karpaga Vinayaga College of Engineering and Technology on 8th Dec 11.
 23. Convener for “Seminar on Advanced Computing Technology” organized by Karpaga Vinayaga College of Engineering and Technology on 13th Dec 11.
 24. Convener for “Workshop on Network Simulator 2” organized by Karpaga Vinayaga College of Engineering and Technology on 12th May 11.
 25. Convener for “Workshop on Linux for Advanced Users” organized by Karpaga Vinayaga College of Engineering and Technology on 16th Mar 11.
 26. Coordinator for “Workshop on Mobile Ad Hoc Network Using GloMoSim” organized by Karpaga Vinayaga College of Engineering and Technology on 18th Feb 11.
 27. Coordinator for “One day Workshop on Cloud and Grid Computing” organized by B.S.A.U on 20th Jan 11.
 28. Coordinator for “Workshop on Fundamentals of Network Simulators” organized by B.S.A.U on 29th Dec 2010.
 29. Coordinator for “Workshop on Network Simulators” organized by B.S.A.U. on 26th – 27th Aug 10.
 30. Resource person to conducted 15-days Training Programme on “Infosys Campus Connect Training Programme for Fresher” organized by Infosys Technologies, Chennai. During 11th May – 25th May 2009.
 31. Coordinator for “Qualnet Training Programme” organized by B.S.A. Crescent Engineering College on 10th – 12th Aug ’07.
 32. Resource person to conducted 11-days Talent Transformation Programme on “Wipro I2 Connect Training Programme for Fresher” organized by Wipro Technologies, Chennai. During 21st – 31st May 2006.
 33. Resource person to conducted 23-days Training Programme on “Infosys Campus Connect Training Programme for Fresher” organized by Infosys Technologies, Chennai. During 11th May – 2nd June 2005.
 34. Coordinator for “Linux” organized by B.S.A. Crescent Engineering College on Mar 12th 05
 35. Resource Person for “Faculty Development Program for Operating System - Anna University” organized by Crescent Engineering College on May 31st –June 5th 04.
 36. Coordinator for “Basic Computer Skills and Internet Usage in Business” organized by TANSTIA-FNF service Centre, Guindy and IIP Cell of Crescent Engineering College on Aug 8th 03.

Presentations and Seminars

1. Lecture delivered on “Recent trends in IoT and Sustainability” in DST Sponsored Innovation and Entrepreneurship on “Technology Based Entrepreneurship Development Programme” on 02nd Feb 2022 at SRM Institute of Science and Technology, Ramapuram, Chennai.
2. Lecture delivered on “Recent trends in Deep Learning: Current Solutions and Future Challenges” in AICTE – ISTE Sponsored Induction/Refresher programme on “Recent Advancements in Deep Learning” on 9th Feb 2022 at Anurag Engineering College, Telangana.
3. Lecture delivered on “Big Data an Research Issues” in AICTE Sponsored STTP on “Predictive Modeling and Data Analysis using Python base Machine Learning Techniques” on 10th Sep 2020 at SriSai Ram Institute of Technology, Chennai
4. Lecture delivered on “IoT and Sustainability” in AICTE Sponsored STTP on “Recent trends in IoT” on 25th Nov 2020 at Anurag Engineering College, Telangana.
5. Lecture delivered on “An Roadmap of Machine Learning and Data science” in AICTE Sponsored STTP on “Supervised and Unsupervised Machine Learning Using Google Cloud” on 6th Nov 2020 at RMK College of Engineering and Technology, Chennai.
6. Lecture delivered on “Recent trends in IoT: Current Solutions and Future Challenges” in AICTE Sponsored STTP on “Recent trends in IoT” on 15th Dec 2020 at Anurag Engineering College, Telangana.
7. EDC Lecture delivered on “Problem Solving and Ideation” on 16th Dec 2020 at Panimalar Engineering College, Chennai.
8. “Research Issues in Machine Learning”, AICTE ATAL STTP-"Predictive Modeling And data Analysis using Python based Machine Learning Techniques” organized by Sri Sairam Institute of Technology, Chennai on 11th Sep 2020.
9. Webinar on “Big Data Analytics”, organized by M A M School of Engineering, Trichy on 8th Jun 2020.
10. “Research Issues in Big Data Analytics”, 2 Weeks STTP on ‘Big Data Analytics in Bioinformatics’ organized by M N M Jain Engineering College, Chennai on 9th Nov 2019.
11. “Big Data Analytics in Bioinformatics”, 2 Weeks STTP on ‘Big Data Analytics in Bioinformatics’ organized by M N M Jain Engineering College, Chennai on 12th Nov 2019.
12. “Research Issues in IOT”, 2 Weeks FDP on ‘Recent Trends in IOT and Its Research Issues’ organized by M N M Jain Engineering College, Chennai on 13th Nov 2019.
13. “Session II: Data Link Layer, HDLC and PPP”, Guest Lecture given for the Anna University

- sponsored six days Faculty Development program on CS8591- Computer Networks organized by Jeppiaar Engineering College, Chennai, Tamilnadu, on 30th Apr 19.
14. “Session II: Recent Research in Advanced Database Management System”, Special Guest Lecture given for the Faculty Development program on DBMS organized by University College of Engineering, Tindivanam, Tamilnadu, on 6th Dec 18.
 15. “Session II: Save point, Isolation, Concurrency and Recovery”, Special Guest Lecture given for the Faculty Development program on DBMS organized by University College of Engineering, Tindivanam, Tamilnadu, on 1st Dec 18.
 16. “Session I: Secure Computer Forensics and Its Tools Session II: Simulation of Advanced Networks using GloMoSim”, Guest Lecture given for the Short Term Training Programme on Cyber Security organized by Annamalai University, Chidambaram, Tamilnadu, on 21st Nov 18.
 17. “To Start a Startup”, Entrepreneurship Talk in EDC seminar, M N M Jain Engineering College, Chennai on 13th Jul 2018.
 18. “Research Issues in Big Data Analytics”, 2 Weeks FDP on ‘Recent Trends in Big Data Analytics and Its Research Issues’ organized by M N M Jain Engineering College, Chennai on 2nd Dec 2017.
 19. “Developing interest in learning physics among students”, Workshop On Curriculum Revision TNCF 2017, State Council of Educational Research and Training (SCERT), IIT Madras, Chennai, 21st July 2017.
 20. “Team Leadership”, Entrepreneurship Talk in FDP, PSG College of Technology, Coimbatore on 31st May 2017.
 21. “Big Data Analytics and R Language an Overview”, Research Talk for Ph.D & M.Phil students, Mother Teresa Women’s University at Kodaikanal on 06th Sep 2016.
 22. “Session I: Email and Internet Protocol Session II: Web Security”, Guest Lecture given for the Faculty Development program on Cryptoanalysis and Internet Security organized by Sri Ram Institute of Technology, Chennai, Tamilnadu, on 28th June 16.
 23. “FIST in Computer Science and Engineering”, KIIT University, Bhubaneswar on 27th Sep 2015.
 24. “Training on ATM Machine”, NCR Ltd, Pondicherry on 15th June to 17th June 2015.
 25. “Big Data Challenges and Research Opportunities”, Research Talk for Ph.D & M.Phil students, Mother Teresa Women’s University at Kodaikanal on 02nd Mar 2015.
 26. “Data Mining and its Research Opportunities”, Seminar Talk, Ashoka Institute of Engineering and Technology at Hyderabad on 23rd Feb 2015.
 27. “Session I: Research Issues in Ad Hoc Networks, Session II: Simulators, Session III: GloMoSim-

- 2.03, Session IV: Configuring GloMoSim and Session V: Advanced level Experiments using GloMosim”, Guest Lecture given for the Faculty Development program on Advanced Networking and Cloud Computing organized by Kalasalingam University, Krinshnan kovil, Tamilnadu, on 08th Dec 14 to 10th Dec 2014.
28. “Session I: Data Mining and Session II: Big Data Challenges and Research Opportunities”, Guest Lecture given for the Faculty Development program on Data Mining and Big Data Analytics organized by Kalasalingam University, Krinshnan kovil, Tamilnadu, on 28th May 14.
 29. “Industry Institution Partnership”, Microsoft Corporation India Ltd, Bangalore on 28th March 2014.
 30. “Global Warming on NSS Camp”, General Talk, Vivekanandha College of Engineering for Women on 24th Jan 2014.
 31. “Awareness Programme on Voluntary Blood Donation”, General Talk, Vivekanandha College of Engineering for Women on 4th Oct 2013.
 32. “Delay Tolerant Networks and Its Research Issues”, Research Talk, Vivekanandha College of Engineering for Women on 16th Sep 2013.
 33. “How to write paper”, Paper presentation for students in “ZealTech 2013”, on 12th Sep 2013.
 34. “Networking Concepts”, Bridge Course for Fresh MBA Students, Vivekanandha College of Engineering for Women on 7th Aug 2013.
 35. “How to Choose Research Domain”, Research Talk, Vivekanandha College of Engineering for Women on 22nd Jul 2013.
 36. “How to Formulate the Research Problem”, Research Talk, Vivekanandha College of Engineering for Women on 29th Jul 2013.
 37. “Virtual Private Networks and Issues”, Keynote presentation, International Conference on Computer, Communication, Network and Technology, Namakkal, 4th – 6th July, 2013.
 38. “Vivekanandha Educational Intuitions Infrastructures”, Technical Talk, Microsoft Technologies, Bangalore, 14th June 2013.
 39. “How to Start Research”, Research Talk, Vivekanandha College of Engineering for Women on 15th Apr 2013.
 40. “How to Write Good Research Paper”, Research Talk, Vivekanandha College of Engineering for Women on 18th Mar 2013.
 41. “Importance of Research”, Research Talk, Vivekanandha College of Engineering for Women on 11th Feb 2013.
 42. “Basics of Networks Simulator”, Workshop Talk, Karpaga Vinayaga College of Engineering and

- Technology on 19th - 20th Oct 2012.
43. “Wireless Networks an overview”, Keynote Speech, Karpaga Vinayaga College of Engineering and Technology on 19th - 20th Oct 2012.
 44. “Wireless Networks Simulator”, Workshop Talk, Arunai College of Engineering, Tiruvannamalai, 21st – 22nd September 2012.
 45. “Wireless Networks an overview”, Keynote Speech, Arunai College of Engineering, Tiruvannamalai, 21st – 22nd September 2012.
 46. “Glimpse of Networks”, Workshop Talk, C K College of Engineering and Technology, Cuddalore, 29th August 2012.
 47. “Nuts and Bolts of Networks”, Keynote Speech, C K College of Engineering and Technology, Cuddalore, 29th August 2012.
 48. “Session I: Domain Name Server and Session II: Time and Global States”, Guest Lecture given for the Faculty Development program on Distributed Systems organized by Dhanalakshmi College of Engineering, Chennai, on 1st Dec 11.
 49. “Green Computing”, Keynote presentation, International Conference on Biomedical Instrumentation, Engineering and Environmental Management (ICBEEM), Chennai, 2011.
 50. “Ad Hoc Networks Experiment using Simulators”, Keynote presentation, National Multiconference on Innovative Computing Technology, Chennai, 2011.
 51. “Introduction to Open Source Software”, Keynote presentation, Workshop on Linux for Advanced Users, KVCET, Chennai, 2011.
 52. “Simulator an Overview”, Guest talk, Workshop on Network Simulators, Department of ECE, KVCET, Chennai, 2011.
 53. “Software Reliability Methods”, Guest talk, Department of Computer Science and Engineering, KVCET, Chennai, 2011.
 54. “Networks Simulator”, Workshop Talk, Jerusalem College of Engineering, Chennai, 19th November 2010.
 55. “GloMoSim Simulator”, Workshop Talk, Sairam Institute of Technology, Chennai, 21st November 2010.

Other Skills

- Research Head, Networking and IoT Research Group, Karunya Institute of Technology and Sciences, Coimbatore, 2021 – till date.

- Research Coordinator, SRM Institute of Science and Technology, Chennai, 2020 – till date.
- EDC Coordinator, M N M Jain Engineering College, Chennai: 2017 – 2020.
- R& D Coordinator, Anand Institute of Higher Technology: 2015 - 2016
- Anna University, News Bulletin Convener, Anand Institute of Higher Technology : 2015 – 2016.
- Chairman, Board of Studies, Vivekanandha College of Engineering for Women : 2013 – 2015.
- Member, Board of Studies, B S Abdur Rahman University : 2008 – 2011.
- Governing Council Member, Vivekanandha College of Engineering for Women : 2013 – 2015.
- Guest Lecturer delivered at various places of reputed Engineering colleges and Universities.
- Attended more than 30 community service programmes through Alumni Association.
- Various positions of posting held in Alumni Association.
- Coordinator for University Calendar.
- Research, Academic Coordinator & eSRM Coordinator for Computer Science Engineering.

International/National Conferences & Workshop/Seminars

- Attended 20 International Conferences and more than 40 National Conferences and more than 50 Workshop/Seminars held at various places of reputed Engineering Colleges and Universities of India.
- Attended 5 days short term course SAHGE 2019 at IIT Madras during May 20-24, 2019.
- Attended 1 day International Webinar on “An Overview on Past, Present and Future of FTTH Network” at SRM Institute of Science and Technology, Chennai on 15th Sep 2020.

Industrial Exposure/Training

- Attended 7 Industrial Exposure Training conducted by various organizations like IBM, SUN SORALIS, INFOSYS, Microsoft, Adobe, NCR and WIPRO.
- Attended 2 days event organized by Infosys Ltd, “INFYTQ Summit 2019”, on 15th – 16th Feb 2019 at Infosys Campus, Mysore.

Subject Expert

- | | |
|---------------------|------------|
| ➤ Computer Networks | ➤ DTN |
| ➤ MANET & WSN | ➤ Big Data |

Professional Memberships

- Life Member I.S.T.E. (LM 37847)
- IAES

- ACSE (91.5865)
- IACSIT
- ACM
- IAENG (238386)
- IEEE (92408283)
- ICST
- Fellow Member ISRD (F3140900126)

Projects Guided

- Projects Guided B.E (50 projects), M.E (25 projects), and M.C.A (10 projects)
- Ph.D (4 Completed)
- Ph.D (3 Pursuing)

Profile Links available

1. Scopus ID: [35791850800](https://scopus.com/authors/details/authorid/35791850800)
2. Web of Science: <https://publons.com/researcher/503505/dr-ayyaswamy-kathirvel/>
3. Researcher ID: <http://www.researcherid.com/rid/M-1718-2015>
4. ORCID: <http://orcid.org/0000-0002-5347-9110>
5. Google Scholar: https://scholar.google.co.in/citations?hl=en&view_op=list_works&gmla=AJsN-F6XrDZtVR1WEwpOR2mPKXJw7nzm115gce
6. LiveDNA: <https://livedna.org/91.5865>
7. Vidwan: <https://vidwan.inflibnet.ac.in/profile/167015>
8. Mendeley: <https://www.mendeley.com/profiles/dr-kathirvel-ayyaswamy/>

Regd. Research	<i>Various University Ph.D –Registered Candidates/Titles</i>
N.Kirubakaran	Performance Enhancement of Secured Cross Layer Routing Protocols in MANETS St. Peter’s University, Chennai – COMPLETED 2018
K.Hamela	Performance Enrichment of an Unicast Routing in Wireless Multihop Networks, Mother Teresa Women’s University – COMPLETED 2020
D.Sudha	Multicast Routing in Wireless Mobile Ad Hoc Networks Mother Teresa Women’s University, Kodaikanal – Course work Completed
R.Sundar	Performance Improvement using Channel Aware Routing for Mobile Ad Hoc Networks Sathyabama University, Chennai – COMPLETED 2021

J.P. Josh Kumar	Unified Approach for detecting and Eliminating Selfish Nodes in MANETs Sathyabama Univeristy, Chennai – COMPLETED 2020
K.C.Suresh	Path Reservation Using Enhanced Slot Assignment in TDMA for Mobile Ad Hoc Networks, Anna University, Chennai Chennai – COMPLETED 2019
P.Sivaraman	Enhance the Security in Cloud Computing Based Big-Data Management System VIT Univeristy, Vellore – Confirmation Completed
Mr. Lakshmi Narasimhan G	Implementing Cyber Security Incident Response, Anna University, Chennai

Academic coupled Technical Certification courses /Projects

- Introduction of Certification courses in the field of Information Technology and to prepare the students for,
- SUN SORAIS Certification
- CISCO – Networking Certification
- ORACLE Certification and many others.

Additional Responsibilities

- NBA Coordinator for the Department.
- ISO Coordinator for the Department.
- Certified ISO 9000:1994 Awareness Training conducted by Quality point integrating systems private Ltd.

Personal Data

Date of Birth	5 TH Mar 1976
Marital Status	Married
Spouse	Mrs.K.Mohanambal, B.Com.,
Children's	A.K.Naren(2005) – Eleventh Std & A.K.Keerthana(2009) – 6 th Std
Indian Passport No	J1464548 Validity Upto 06.10.2020
Permanent Address	2A, Sivakami Street, Srinivasa Nagar, Perungalathur, Chennai – 600 063.