

Name : **Dr. C. Kumuthini**
Designation : Professor
Department : Computer Applications
Qualification : M.C.A., M. Phil., Ph.D.
Experience : Teaching: 14.10 Years
Area of specialization(s) : Ad-hoc Networks
Email (Official ID) : kumuthini@drngpasc.ac.in



Academic Qualifications

| Degree | Branch | Institution / University Name | Year of Graduation |
|----------|-----------------------|--------------------------------|--------------------|
| Ph.D | Computer Science | Bharathiyar University, | 2017 |
| M. Phil. | Computer Science | Periyar University | 2007 |
| M.C.A | Computer Applications | Vysya college | 2004 |
| BCA | Computer Applications | Muthu Arts and Science College | 2001 |

Additional Qualifications

| Diploma / Vocational / Certification | Area of Specialization | Institution / University / Agency Name | Year |
|--------------------------------------|-----------------------------------|--|------|
| Certification | Google Analytics for Beginners | Google Analytics Academy | 2022 |
| Certification | Introduction to Digital Marketing | Great learning Academy | 2022 |
| Certification | Wipro certified faculty program | Wipro- Talent Next | 2020 |
| Certification | Introduction to R programming | Udemy | 2021 |
| Certification | Cloud Computing | NPTEL | 2020 |

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|-----------------------------|-----------------------------|------------------------------|------|
| Certification | Python programming | Coursera | 2020 |
| Certification | Digital teaching techniques | ICT Academy | 2020 |
| Online Certification | R Tool | IIT Bombay | 2020 |
| Online Certification | BOSS Linux | IIT Bombay | 2020 |
| Online Certification | Java | IIT Bombay | 2020 |
| Certification | Java Script Essentials | Udemy | 2018 |
| Certification | C Programming | NPTEL | 2017 |
| Diploma | E-Commerce | CRG Computer Solutions | 2000 |
| Certification | VB, Linux & ASP | SRM Radiant Infotech Limited | 2003 |

Research Guidance

| Programme | No of Scholars | |
|-----------|----------------|----------|
| | Completed | Pursuing |
| Ph. D. | - | 1 |
| M. Phil. | 1 | - |

Research Publications (Indexed)

1. Dr C.Kumuthini,” Energy Consumption Minimization in Cognitive Radio Mobile Ad-Hoc Networks using Enriched Ad-hoc On-demand Distance Vector Protocol”, 2022 International Conference on Advanced Computing Technologies and Applications (ICACTA),IEEE EXPLORE, 15 April 2022, DOI: 10.1109/ICACTA54488.2022.9752899

2. Dr C.Kumuthini," Geographical Routing Protocols in Wireless Sensor Network", International Journal of Research in Engineering and Science (IJRES)", Volume 10 Issue 3 | 2022 | PP. 77-82, ISSN (Online): 2320-9364
3. Dr.C.Kumuthini," QFNSS BASED SCHEDULING ALGORITHM IN MOBILE AD-HOC NETWORKS",Journal of Emerging Technologies and Innovative Research (JETIR)", Volume 8, Issue 6 , Page No: a702-a707,Year June-2021, ISSN Number: 2349-5162UGC Journal No :63975 (UGCJournal).
4. Dr.C.Kumuthini," Applications of IoT in Agriculture", International Journal of Scientific Research in Computer Science, Engineering and Information Technology", Volume 7, Issue 2 Page Number : 105-107, March-April-2021, ISSN : 2456-3307 UGC Journal No : 4718 (UGCJournal).
5. Dr.C.Kumuthini," Integration of WiFi With WiMAX Technology in Vehicular Ad-hoc Networks", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 7, Issue 2 Page Number : 35-39 March-April-2021, ISSN:2456-3307 UGCJournalNo:64718)
6. Dr.C.Kumuthini," A Study on Behavioural Analysis of Specific Ransomware and its Comparison with DBSCAN-MP", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 7, Issue 1, January-February 2021, DOI : 10.32628/CSEIT206670 ISSN:2456-3307 (UGC Journal)
7. Dr.C.Kumuthini," Comparative Analysis of FANET Routing protocols: A Survey", International journal of scientific research in computer science applications and management studies, Volume 8, issue 2 March 2019, 2319-1953(UGC Journal)
8. Dr.C.Kumuthini, "HIPI: A REVIEW ON HADOOP MAP REDUCE FRAMEWORK USING IMAGE PROCESSING IN BIGDATA", International journal of computer science and engineering, Vol.06 , Issue.08 , pp.34-39, Oct-2018 (UGC Journal)
9. Dr.C.Kumuthini, "A REVIEW OF MAC ADDRESS FILTERING AND SPOOFING IN WINDOWS OPERATING SYSTEM", International Educational and Research Journal, Vo. 3, Issues 5, May 2017.
10. Dr.C.Kumuthini, "CONCEPTUAL SEARCH ENGINE USING NON-NEGATIVE MATRIX FACTORIZATION AND BRUSH STRUCTURE MODE", Asian Journal of Research in Social Sciences and Humanities, Vol. 6, Issue 6 , Special Issue June 2016, pp. 114-121.(**indexed in Scopus**)
11. Dr.C.Kumuthini, "EVOLVING INTUITIONISTIC FUZZY PRIORITY CLASSIFIER WITH BIO-INSPIRATION BASED SCHEDULING SCHEME FOR WIMAX IN VEHICULAR AD-HOC NETWORKS", Wireless Networks -springer, Volume 21, Issue 4, May 2015, ISSN 10220038.(**indexed in SCI**)-
12. Dr.C.Kumuthini, "AN ACCESS-POINT BASED ROUTING ALGORITHM(APBR) USING

GREEDY METHOD TOWARDS IMPROVING QUALITY OF SERVICES FOR VANET”,
International journal of Applied Engineering Research, Volume 10, Issue 3, 2015,ISSN
09734562.(indexed in Scopus)

13. Dr.C.Kumuthini, “A SECURITY BASED GREEDY METHOD (SGMA) FOR VANETS IN CITY ENVIRONMENT USING SCORE POINT TECHNIQUE”, International Journal of business Data Communications and Networking, Volume 10, Issue 3, September 2014, ISSN 1548-0631 pp No. 1-16.(indexed in SCI)
14. Dr.C.Kumuthini,“QOS FACTORS BASED NODE SELECTION AND SCHEDULING ALGORITHM FOR IMPROVING SYSTEM PERFORMANCE IN MOBILE ADHOC NETWORK”,International Journal of Computer Technology and Applications vol.5 ,Issue 6,December 2014,ISSN:2229-6093
15. Dr.C.Kumuthini, ” A SURVEY on various scheduling techniques based on QoS factors in MANET”, International Journal of Scientific research ,Vol. 3, Issue. 11, November 2014 ,ISSN:2277-8179.
16. Dr.C.Kumuthini “Analysis of elliptic curve integrated encryption system in VANET”, International Journal of Emerging Technologies in Computational and Applied Sciences” ,Vol.1 Special issue 7,2014 ,ISSN: 2279-0055 Impact factor 1.234.
17. Dr.C.Kumuthini, “ANALYSIS OF VARIOUS POSITION BASED ROUTING PROTOCOLS AND GREEDY METHOD IN VANET”, International Journal of Emerging Technologies in Computational and Applied Sciences Vol. 1 Special issue 7,2014, ISSN: 2279-0055 Impact factor 1.234.
18. Dr.C.Kumuthini, “A SURVEY OF REPUTABLE AND DISSEMINATION PROTOCOL IN VANET”, International journal of Computer Applications, Vol. 72, June 2013, ISSN:126489091, Impact factor 0.835.
19. Dr.C.Kumuthini, “ENERGY EFFICIENT ROUTING PROTOCOLS IN MANET BASED ON ENHANCED AODV PROTOCOL”, International Journal of Computer Science and Mobile Computing , Vol.1,No.3, April 2013 ,ISSN 2320-088X Impact factor 2.143.
20. Dr.C.Kumuthini, “NETWORK DELINEATE SAFEGUARD FOR SURPLUS CONTROL“ International Journal of Scientific and Research Publications, Vol. 3, Issue .3, March 2013, ISSN 2250-3153.

PRESENTATIONS IN CONFERENCE

1. Image Retrieval with gray co-occurrence matrix in national conference on research quest organized by Government arts and Science College, Kadayanallur on 23rd and 24th april 2022.
2. IOT-Enabled Garbage Bin in international conference on digital information security and computing technologies in Collaboration with Lincoln university , Malaysia organized by sankara college of science and commerce , Coimbatore on 12.4.22
3. A Survey of CBIR System in detecting ocular TB in national conference on innovation in computing and communication technology organized by Kongu Nadu college of engineering and technology, Trichy on 8.4.22
4. Energy Consumption Minimization in cognitive Radio Mobile Ad-hoc Networks using Enriched Ad-hoc on-Demand Distance Vector protocol in IEEE International Conference on Advanced Computing Technologies and Applications(ICTACT' 22) organized by Sri Krishna College of engineering and technology held during march 4 & 5 ,2022.
5. IoT Enabled Soil Moisture Monitoring System for Agriculture in Two days International Conference on Computing and Intelligent System (ICCIS'21) jointly organized by the Sri krishna Adithya College of Arts and Science held during 25th to 26th August, 2021.
6. Artificial Intelligence and Robotics, two day international conference on machine learning and neural information systems organized by Department of computer science and applications , sri vidhya mandir Arts and Science College, Uthangarai on 18th and 19th march 2021.
7. **SECURITY ISSUES IN INTERNET OF THINGS : A SURVEY"** , International Conference on Advances in IoT, High Performance and Edge Computing (ICIHPE 2020), ICT Academy.
8. Improving database security in cloud computing, second international conference on research trends in computing technologies, 28-29 feb 2020 at Dr.N.G.P arts and Science college.
9. Vehicular ad-hoc networks in block chain cloud computing, national conference on emerging research trends in computer science and technology, SNMV college of Arts and Science and Institute of Management,29-jan-2020.
10. "Recent Trends and Advances in the Field of Information Technology", Karpagam Academy of Higher Education, Coimbatore, 27-Sep-2019.
11. VIRTUAL REALITY AND ITS CHALLENGES, National conference on "Recent Trends and Advances in the field of information Technology" at karpagam academy of higher education on 28-sep-2018.
12. "Routing Protocols: Flying Ad-hoc Networks, International Conference on Engineering and Technology, Rathinam Technical Campus, 30-Aug-2018 to 31-Aug-2018.

13. A COMPARITIVE ANALYSIS OF LI-FI AND WI-FI, international conference on Research Trends in computing Technologies, Dr.N.G.P Arts and Science College, 9-Aug-18 to 10-Aug-18.
14. A STUDY AND ANALYSIS OF ARTIFICIAL INTELLIGENCE IN VARIOUS APPLICATIONS, international conference on Research Trends in computing Technologies, Dr.N.G.P Arts and Science College, 9-Aug-2018 to 10-Aug- 2018.
15. A REVIEW ON HADOOP MAPREDUCE FRAMEWORK USING IMAGE PROCESSING IN BIGDATA, international conference on Research Trends in computing Technologies, Dr.N.G.P Arts and Science College, 9-Aug-2018 to 10-Aug- 2018.
16. VIRTUAL REALITY AND ITS CHALLENGES, international conference on Research Trends in computing Technologies, Dr.N.G.P arts and Science College, 9-Aug-2018 to 10-Aug- 2018.
17. WI-FI IN AD-HOC NETWORKS: ASTUDY, National Conference on Emerging Trends in computing and communication , karpagam University, 17 – Feb- 2017.
18. “ANALYSIS OF VARIOUS SECURITY CHALLENGES IN VEHICULAR ADHOC NETWORKS”, National Conference, Rathinam Academy of higher education Science, 22– Sep-2017.
19. “ANALYSIS OF VARIOUS SECURITY CHALLENGES IN VEHICULAR ADHOC NETWORKS”, National Conference, Karpagam Academy of higher education Science, 22– Sep-2017.
20. “A VEHICULAR AD-HOC NETWORKS IN WIMAX TECHNOLOGY”. National Conference on “Emerging Trends in Big Data Technologies and Research Issues”, Dr. N.G.P Arts and Science College ,24-Feb-2017.
21. “WI-FI IN AD-HOC NETWORKS, National Conference at Karpagam University, 17- Feb- 2017.
22. A VARIOUS DOWNLINK SCHEDULING ALGORITHMS IN WIMA, National Conference , PSGR Krishnammal College for Women, 5 – Feb-2016.
23. KEY MANAGEMENT PROTOCOLS AND OPTIMAL KEY MANAGEMENT IN WIRELESS NETWORKS, National Conference , Sri Ramakrishna Mission Vidyalaya College of Arts and Science , 22 – Sep- 2015.
24. COMPARITIVE ANALYSIS OF WIFI WITH WIMAX TECHNOLOGY, National Conference , Arignar Anna College , 07 – Feb- 2015.
25. A SURVEY OF SECURITY ISSUES IN MANET, National Conference, Sri Ramakrishna Mission vidhyalya college of Arts and Science, 23 – Sep- 2014.
26. PERFORMANCE COMPARISON OF GPSR, GSR, GYAR ROUTING STRATEGY FOR VEHICULAR ADHOC NETWORK, international Conference, Periyar University College of Arts and Science , 12- Sep- 2014.
27. ANALYSIS OF SECURITY ATTACK IN VANET. National Conference , RVS College of Arts &

Science , 27 – Feb- 2014

28. ANALYSIS OF ELLIPTIC CURVE INTEGRATED ENCRYPTION SYSTEM IN VANET. National Conference , Dr.N.G.P Arts College of Arts and Science, 21-Feb-2014.
29. A STUDY OF ACKNOWLEDGEMENT BASED BROADCAST PROTOCOL IN VANET, National Conference, RVS College of Arts & Science,15–Feb- 2013.
30. VULNERABILITY CHECKING OF WEB SERVICES USING SQL INJECTION. National Conference , Dr.N.G.P Arts and Science college , 3 -Feb- 2012.
31. FORTPOLIO IN HIGHER EDUCATION ,State level conference, Dr.N.G.P college of Arts and Science college , 9-Dec-2011 to 10- Dec- 2011.
32. GATT AND RELAVANCE OF IT TO INDIA. National Conference, Dr.N.G.P college of Arts and Science college , 20 –Jun-2005 to 22 -Jun- 2005.

Participation in Conference

- Advances in sensor, Energy and hybrid vehicles, international Conference-ICT Academy, 14-18 oct 2020.
- Signals,Communication and embedded systems, international Conference -ICT academy, 14-18 oct 2020.
- Emerging Education Models For 21st Centuary Learner, , Dr.N.G.P.Arts and Science College, Coimbatore , 1-Aug-2015.
- Recent Trends in Computer Technologies, , Dr.N.G.P.Arts and Science College, Coimbatore , 30th& 31th- Jan-2014.
- Multimedia Signal Processing and Networking, , Dr.N.G.P.Institute of Technology, Coimbatore , 30-Oct-2010
- Issues in Higher Education, , Dr.N.G.P.Arts and Science College, Coimbatore , 29-Oct-2010

Participation in Seminars

- 5G Networks and security concerns , SMIT (Sikkim Manipal university on 31.02.2022
- Role of Green IOT and its applications, PSG Arts and Science College on 29.03.2021.
- RESEARCH IN COMPUTERS : WHY,WHAY AND HOW ?, Bharathiar University , 10–Feb- 2012.

Participation in Workshop

1. Attended Five days online workshop on Zero coding: Data Analytics & Machine Learning for IoT Automation” conducted from 21-06-2021 to 25-06-21 organized by VIT Chennai.

2. Participated in the National Workshop on 'How to write a research paper?' on 22/6/2021 organized by School of Social Sciences and Languages(SSL), VIT Chennai.
3. R programming, Spoken Tutorial Project, IIT Bombay, May 11th 2020.
4. Boss-Linux-Ubuntu operating system, Spoken tutorial IIT,15th april 2020.
5. BOSS Linux Training, Spoken Tutorial Project, IIT Bombay, April 22nd 2020.
6. To promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs, MHRD's Innovation Cell, New Delhi, om 28th April to 22nd May 2020.
7. MOBILE APLICATION DEVELOPMENT, Dr.N.G.P Arts and Science College, 18-Dec-2017 to 19-Dec-2017.
8. DATA VIZUALIZATION WITH TABLEAU, Dr.N.G.P Arts and Science College, 07-Aug-2017 to 08-Aug-2017.
9. BIG DATA ANALYTICS USING WEKA, Karpagam University , 3-Mar-2015.
10. SIMULATION AND EMULATION OF SELF ORGANIZED NETWORKS, Kongu Engineering College ,Perundurai , 11-Sep-2014 to 13-Sep-2014.
11. Ns2, Kongu Engineering College, Perundurai, 17-Jul-2014 to 19-Jul-2014.
12. ANDROID APPLICATION DEVELOPER, Dr.N.G.P Arts and Science College,25-Sep-2013
13. RESEARCH PARADIGMS IN NETWORKING AND COMMUNICATIONS, SVS Institute of Computer Applications, 30-Mar-2012 to 31-Mar- 2012.
14. TEACHING SOFTWARE TESTING TECHNIQUES , Prakat solutions at Bharathiar University, 4-Jan-2011 to 7-Jan-2011.

Participation in Orientation Programme / Short Term Courses

1. DIGITAL TEACHING TECHNIQUES, organized by ICT Academy from 10 Aug 2020 to 15 Aug 2020.
2. Software Testing Techniques(Prakat Solutions),Bharathiar University, 4-jan-2011 to 7jan-2011.

Participation in Faculty Development Programme

1. Participated in Five day IQAC Series 2022 organized by sankara college of science and commerce from 24th January 2022-29th January 2022.

2. Participated in seven day online faculty development programme on Research methodology and pedagogy for Tertiary Education during June 15 – 21, 2021 organized by IQAC , Dr.N.G.P Arts and science College, Coimbatore.
3. Challenges and Opportunities in Startup and Innovation, Mahendra Institute of Technology on 14th July 2020.
4. Python3.4.3, Spoken Tutorial Project, IIT Bombay from 20th to 25th April, 2020.
5. Java, Spoken Tutorial Project, IIT Bombay from 05th April to 13th April ,2020.
6. Boss-Linux-Ubuntu operating system, Spoken tutorial IIT,15th April 2020.
7. Participated in seven day faculty development programme on NAAC Revised Accreditation framework and OBE Assessment Methodology organized by faculty development cell and IQAC, Dr.N.G.P Arts and science college, May 27-June 02, 2019.
8. QUALITY MEASURES IN HIGHER EDUCATION, Dr.N.G.P Arts and Science College, 3-dec-2018 to 09-dec-2018.
9. PEDAGOGY FOR ONLINE AND BLENDED TEACHING-LEARNING PROCESS, Indian Institute of Technology, Bombay, 14-sep-2017 to 12-oct-2017(online).
10. FOUNDATION PROGRAM IN ICT FOR EDUCATION, Indian Institute of Technology, Bombay, 03-Aug-2017 to 07-sep-2017(online).