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| Name | : | Dr. P. Aruna |  |
| Designation | | Associate Professor & Head | |
| Department | | Software Engineering | |
| Educational Qualification | | M.C.A., M. Phil.(CS),Ph.D., NET | |
| Subject of Interest | : | Mobile Ad hoc Networks, Machine Learning, Artificial Intelligence | |
| Publications : | : | <p>International Journals:</p> <ul style="list-style-type: none"> • Aruna P, Anisha Begum M, “IOT based Perceptive Garbage Segregation with LeNet Architecture”, Studies in Indian Place Names, Volume: 40, Issue: 60, ISSN: 2394-3114, P.No.3927-3933, Mar. 2020. (UGC Care) • Prinitha E, Aruna P, AGRI INFO: An Analytical Tool For Predicting Crop Yield, Journal of Emerging Technologies and Innovative Research(JETIR), Volume 6, Issue 4, ISSN: 2349-5162, P.No.7-13, Apr. 2019. (UGC Indexed) • Dhanalakshmi K, Aruna P, Parameter Analysis of Li-Fi Technology In Wireless Communication, Journal of Emerging Technologies and Innovative Research(JETIR), Volume 6, Issue 4, ISSN: 2349-5162, P.No.25-32, Apr. 2019. (UGC Indexed) • P. Aruna, A. George, “Design and Development of Dynamic Mobile Ad hoc e-learning System”, IEEE Explore, IEEE Xplore--ISBN:978-1-5090-6621-6,IEEE Catalog No: CFP1720J-ART, 8 November 2018. (IEEE, Scopus & Web of Science Indexed) • P. Aruna, A. George, “Spatial Interference Mitigation between Wireless Personal Area Network and Wireless Local Area Network”, International Journal of Pure and Applied Mathematics, Volume 118, No. 18, Feb. 2018, 2655-2662, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version), Special Issue (Scopus Indexed) • P. Aruna, A. George, “A Survey on Interference Mitigation Techniques for 2.4 | |

GHz ISM Band”, International Journal of Advanced Research in Computer Engineering & Technology, ISSN: 2278-1323, Volume 6 Issue 9, Sep. 2017, pp:1369-1373. (UGC Indexed)

- M. Sharmila Begum, P. Aruna, “Implementing Outcome Based Education Tool to Enhance Student Learning”, Indian Journal of Scientific Research, 14 (1): 181-186, 2017 ISSN: 0976-2876 (Print), ISSN: 2250-0138 (Online). (UGC Indexed)
- M.Prasanth, P.Aruna, “Code-Based Neighbour Discovery Protocols in Mobile Wireless Networks”, International Journal for Research & Development in Technology, ISSN No: 2349-3585, Volume-7, Issue-4, P.No.636-638, April 2017. (UGC Indexed)
- A.Dayana Vimala Rani, P. Aruna, “Smart Work Allotment and Reporting System”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue IV, April 2017, ISSN: 2321-9653, P.No.303-304, DOI: 10.22214/ijraset.2017.4055. (UGC Indexed)
- S.Elakkiya, P.Aruna, “Creation of 802.11 Wireless Network using CRN”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue III, March 2017, ISSN: 2321-9653, P.No.844-851. (UGC Indexed)
- M. Sharmila Begum, P. Aruna, N. Vetrivelan, “STEP – A Career Zone Android APP for Higher Secondary Education”, 978-1-4673-6725-7/16/\$31.00 ©2016 IEEE, 24 October 2016, DOI: 10.1109/ICETETS.2016.7603015. (Scopus Indexed)
- P. Aruna, M. Sharmila Begum and D. Maghesh Kumar, “Alumni Smart Connect through Android Application”, International Journal of Trend in Research and Development(IJTRD), ISSN: 2394-9333, www.ijtrd.com, Sep. 2016, P.No.1-3. (UGC Indexed)
- P.Aruna , N. Vetrivelan, “Survey and Comparative Study of Wireless Technologies for Enhanced MANET”, International Journal of Applied Engineering Research, Print ISSN 0973-4562, Online ISSN 0973-9769,

Volume 10, Number 10(2015),pp. 25617-25627, Research India Publications.
(Scopus Indexed)

- M. Sharmila Begum, P. Aruna, A. B. Karthick Anand Babu, “Minimum Spanning Tree Based Clustering using Divide and Conquer Approach“, International Journal of Engineering and its Applications, ISSN Number : 2250-3935, Volume no:01, May 2012, Page No: 47-52.
- B. Karthick Anand Babu, M. Chandrakumar Peter, P. Aruna, “A Note on Multilingual Parallel Web Service for Web Tutoring – (MPWSWT)”, International Journal of Wisdom Based Computing (IJWBC), ISSN:2231-4857, Volume1(3), December 2011, Page No: 77-78.
- M. Sharmila Begum, L. Dinesh, P. Aruna, “Information Extraction and Webpage Understanding”, IJCSI International Journal of Computer Science Issues, Vol.8, Issue 6, No 3, November 2011, ISSN (Online) : 1694-0814

International Conferences:

- Aruna P, Anisha Begum M, “IOT based Perceptive Garbage Segregation with LeNet Architecture”, International Conference on Management & Technology Practices for Business Sustainability, 11th & 12th March, 2020, organized by Department of Management Studies, Periyar Maniammai Institute of Science and Technology, Mar. 2020.
- P. Aruna, A. George, “Multi Agents based Interference Mitigation Technique in Wireless Communication System”, International Conference on Inventive Communication and Computational Technologies, Gnanamani College of Technology, April 29-30, 2019, Namakkal, Tamilnadu, (Springer)
- P. Aruna, A. George, “Frequent based Interference Mitigation between Heterogeneous Wireless Networks”, International Conference on Electrical, Electronics, Computers, Communication, Mechanical & Computing, 28th & 29th January 2018, Priyadarshini Engineering College, Vellore District, Tamil Nadu
- P. Aruna, A. George, “Spatial Interference Mitigation between Wireless

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| | <p>Personal Area Network and WirelessLocal Area Network”, International Conference on Advances in Computer Science, Engineering and Technology (ICACSET 18), January 19 & 20, 2018, Department of Computer Science and Information Technology, Kalasalingam University, Anand Nagar, Krishnankoil-626126,Tamil Nadu, India.</p> <ul style="list-style-type: none"> • P. Aruna, A. George, “Design and Development of Dynamic Mobile Ad hoc e-learning System”, IEEE International Conference on Computational Intelligence and Computing Research, Tamilnadu College of Engineering, Coimbatore, 14-16, December 2017, CD-ROM--ISBN:978-1-5090-6619-3,IEEE Catalog No:CFP1720J-CDR, Print--ISBN:978-1-5090-6620-9 IEEE Catalog No: CFP1720J-PRT, ©2017 IEEE, P. No. 533 - 537 • M. Sharmila Begum, P. Aruna, “Implementing Outcome Based Education Tool to Enhance Student Learning”, International Conference on Emerging Trends in Engineering, Science and Sustainable Technologies, In association with Cape Breton University, PMU, 20th & 21nd Feb, 2017. • M.Sharmila Begum, P.Aruna , N.Vetrivelan, “STEP – A Career Zone Android APP for Higher Secondary Education”, 241-242, Proceedings of International Conference on Emerging Trends in Engineering, Technology and Science (ICETETS), Kings College of Engineering, Thanjavur, 24-26 February 2016. |
| | <p>National Journals:</p> <ul style="list-style-type: none"> • “Business Intelligence and Network Analytics: Research Directions”, Business Intelligence, CSI Communications, ISSN: 0970-647X, Vol. No.42, Issue No.7, P.No.33, October 2018. • “A Glimpse of E-Health Systems in India”, ICT in Health Care, CSI Communications, ISSN: 0970-647X, Vol. No.41, Issue No.5, P.No.21-22, August 2017. <p>National Conferences:</p> <ul style="list-style-type: none"> • P. Aruna, M. Sharmila Begum and D. Maghesh Kumar, “Alumni Smart Connect through Android Application”, National Conference on Social, |

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| | <p>Mobile, Analytics and Cloud Services (NCSMAC-2016),Dept. of CSA, SCSE, PMU, 15th & 16th September 2016.</p> <ul style="list-style-type: none"> • P.Aruna, N. Vetrivelan, “Dynamic Mobile Adhoc e-Learning Systems”, National Conference on Advances in Computing Technologies, ISBN: 978-81-923870-7-9, 10-March-2015, Kings College of Engineering, Thanjavur. • Satheesh, K. Kumar, P. Aruna, “The Role of University Teacher in the Online World”, 37th ISTE Annual Convention and National Seminar, Manipal Institute of Technology, Manipal, 17-19 December, 2007. <p>Books and Book Chapters:</p> <ul style="list-style-type: none"> • “<i>Eagle View on Object Oriented Programming with C Plus Plus</i>”, ISBN: 978-81-945880-7-8, Chanakya Academy Publications, Thanjavur, 2020. • “<i>Object Oriented Analysis and Design Multiple Choice Questions</i>”, ISBN: 978-93-90245-35-2, Periyar Maniammai Institute of Science & Technology (Deemed to be University), Thanjavur, 2020. • “<i>Data Warehousing and Data Mining Multiple Choice Questions</i>”, ISBN: 978-93-90245-49-9, Periyar Maniammai Institute of Science & Technology (Deemed to be University), Thanjavur, 2020. • “<i>Aptitude and Attitude – A Quick Reference for Placement</i>”, ISBN: 978-81-944228-3-9, Periyar Maniammai Institute of Science & Technology (Deemed to be University), Thanjavur, 2020. • P. Aruna, A. George, “Multi Agents based Interference Mitigation Technique in Wireless Communication System”, Book Title: Inventive Communication and Computational Technologies, Series Title: Lecture Notes in Networks and Systems, Series Volume: 89, Publisher: Springer, eBook ISBN: 978-981-15-0146-3, Hardcover ISBN: 978-981-15-0145-6, Series ISSN: 2367-3370, Edition Number: 1, Pages: 1245 – 1253, 30 Jan 2020. |
| Awards and Achievements | <p>:</p> <ul style="list-style-type: none"> • Best Teacher award for the Academic year 2016-17, Periyar Maniammai University, Thanjavur, Tamilnadu, India. • Young Scientist Award 2015 in State Level Technical Project Presentation • Commendation award for the development of Software on PMU EES v1.0, |

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| | <p>Periyar Maniammai University, Thanjavur, Tamilnadu, India.</p> <ul style="list-style-type: none"> • Commendation award for the development of Software on Online Entrance Examination system, Periyar Maniammai University, Thanjavur, Tamilnadu, India. |
| Google Scholar Link | : https://scholar.google.co.in/citations?user=Tqd8YmIAAAAJ&hl=en&authuser=2 |
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