

Cellphone : 9444302041

e-Mail ID : meena68@annauniv.edu

Address : NO. 28, CEE DEE YES COLONY, 7/88A, EAST  
COAST ROAD, CHENNAI - 603112.



## Present Position

Professor, Department of Electronics and Communication Engineering, College of Engineering Guindy, Anna University, Chennai from June-2012.

## Present Additional Responsibility

- MEMBER BOARD OF STUDIES, SSN COLLEGE OF ENGINEERING, CHENNAI, Anna University, Chennai from June-2018.
- MEMBER PURCHASE COMMITTEE, Department of Civil Engineering, Anna University, Chennai from April-2018.
- MEMBER ACADEMIC COUNCIL, Anna University, Anna University, Chennai from July-2017.
- MEMBER BOARD OF STUDIES, K S R COLLEGE OF ENGINEERING , TIRUCHENGODE, Anna University, Chennai from June-2017.
- MEMBER BOARD OF STUDIES, NATIONAL ENGINEERING COLLEGE, Anna University, Chennai from June-2017.
- PROFESSOR IN CHARGE, M E. COMMUNICATION SYSTEMS, Anna University, Chennai from January-2010.

## Previous Positions

- Associate professor, Department of Electronics and Communication Engineering, College of Engineering Guindy, Anna University, Chennai during January-2006 and June-2012.
- Assistant Professor, Department of Electronics and Communication Engineering, College of Engineering Guindy, Anna University, Chennai during July-2002 and December-2005.
- Lecturer, Department of Electronics and Communication Engineering, College of Engineering Guindy, Anna University, Chennai during June-1998 and June-2002.

## Previous Additional Responsibility

- Member Purchase Committee Member, DEPT. OF MECH, MINING, MANUFACTURING, PRINTING, INDUSTRIAL, ENERGY STUDIES,, Anna University, Chennai during April-2015 and March-2018.
- Chief Superintendent Of Ug Examinations, , Anna University, Chennai during September-2013 and December-2013.
- Editorial Board Member, AU NEWS BULLETIN, Anna University, Chennai during August-2012 and July-2013.
- Au Research Board Member, , Anna University, Chennai during July-2012 and June-2013.
- Treasurer, Ecea, , Anna University, Chennai during August-2004 and July-2008.

### Other Employment

- TEACHING RESEARCH FELLOW, COLLEGE OF ENGINEERING GUINDY for 2 YEARS 6 MONTHS.
- UGC RESEARCH FELLOW, COLLEGE OF ENGINEERING GUINDY for 5 YEARS.
- LECTURER, SRM ENGINEERING COLLEGE for 5 Months.

### Degree

- ❖ M.E. in ELECTRONICS AND COMMUNICATION ENGG , COLLEGE OF ENGINEERING GUINDY, ANNA UNIVERSITY (1990 - 1992).
- ❖ B.E. in ELECTRONICS AND COMMUNICATION ENGG , PSNA COLLEGE OF ENGINEERING, MADURAI KAMARAJ UNIVERSITY (1985 - 1989).

### Research Degree

- ❖ Postdoctoral Research in OPTICAL NETWORKS from Faculty of BROADBAND NETWORKS GROUP, UNIVERSITY OF STRATHCLYDE, GLASGOW, UNIVERSITY OF STRATHCLYDE, GLASGOW, UNITED KINGDOM (2004 - 2004).  
Title: .
- ❖ Ph.D. in OPTICAL NETWORKS from Faculty of INFORMATION AND COMMUNICATION ENGINEERING, COLLEGE OF ENGINEERING GUINDY, ANNA UNIVERSITY (1992 - 1998).  
Title: A THEORETICAL ANALYSIS OF CDMA OVER MULTIMODE FIBER OPTIC NETWORKS.

### Area of Specialisation

- DIGITAL COMMUNICATION
- WIRELESS COMMUNICATION AND NETWORKS

- FIBER OPTIC COMMUNICATION AND NETWORKS

## Membership in Professional Organization

- LIFE MEMBER OF ISTE
- SENIOR MEMBER OF IEEE

## Research Guidance

Number of Ph.D Scholars Guided	: 11
Number of Ph.D Scholars Guiding	: 7
Number of M.S (By Research) Students Guided	: 2
Number of M.E./ M.Tech. Projects Guided	: 54
Number of M.E./ M.Tech. Projects Guiding	: 2
Number of Ph.D Scholars Guided as Joint-Supervisor	: 2
Number of M.S (By Research) Students Guided as Joint-Supervisor	: 1
Number of M.S (By Research) Students Guiding as Joint-Supervisor	: 2

## Papers Published in Journals

Research Papers Published in International Journals	: 54
Research Papers Published in National Journals	: 0

1. M. Meenakshi ,and V. C. Ravichandran, "Performance analysis of M-ary signaling in fiber optic code division multiple access communication systems with modal noise",, ", Optical Engineering, S.P.I.E Journal, Vol. 37, Issue 3, pp. 961-967 (1998).
2. M.Thiruselvi, M.Meenakshi, and G.Geetha, " Multimedia applications using Optical FFH - CDMA Communication systems " ", Microwave and Optical Technology Letters,, Vol. 34, Issue 4, pp. 259-263 (2002).
3. Saminadan V. and Meenakshi M., "'Optimal Wavelength Converter Placement in Wavelength-Routed Optical Networks'", Journal of Optics, Vol. 33, Issue 1, pp. 001-012 (2004).
4. S.Malarvizhi, M. Meenakshi, "Coded Incremental Collision Resolution Multiple Access Protocol For Wireless Environment" ", IETE Journal Of Research, Vol. 50, Issue 2, pp. 169-176 (2004).
5. Saminadan V. and Meenakshi M., "In-band crosstalk Performance of WDM optical networks under different routing and wavelength assignment algorithms'", IWDC 2005, Lecture notes in Computer Science, LNCS 3741, Springer Verlag, Germany, pp. 150-170 (2005).
6. Saminadan V. and Meenakshi M., " 'Dynamic lightpath establishment in WDM optical networks under the constraints of transmission impairments'", Journal of Optics, India, published by Optical Society of India. (2005).

7. T. Bazan, D. Harle, I. Andonovic, and M. Meenakshi, "Effect of beat noise on the performance of two-dimensional time-spreading/wavelength-hopping optical code-division multiple-access systems," Journal of Optical Networking, published by Optical Society of America. Vol. 4, pp. 121-129 (2005).
8. M. Meenakshi and I. Andonovic, "Effect of Physical Layer Impairments on SUM and AND Detection Strategies for 2-D Optical CDMA", IEEE Photonics Technology Letters, Vol. 17, Issue 4, pp. 932-935 (2005).
9. A.V.Ramprasad and M.Meenakshi, ", 'Modulation Technique to improve spectral efficiency in optical communication systems', ", International Journal of Digital Signal Processing -International Congress for Global Science and Technology, Vol. 6, Issue 1, pp. 31-37 (2006).
10. Sabrigiriraj M., Meenakshi M. and Roopkumar R., "An Efficient Wavelength Assignment for All-to-all Broadcast in Optical WDM Hypercube Network'", Journal of Optics, Vol. 35, Issue 4, pp. 188-196 (2006).
11. A.V.Ramprasad and M.Meenakshi, "'A study on the statistical behaviour of Receiving currents in the presence of Four wave mixing effect in DWDM optical systems'", Information Technology Journal , Vol. 5, Issue 4, pp. 735-741 (2006).
12. A.V.Ramprasad and M.Meenakshi, "'Four wave mixing on Dense wavelength division multiplexing optical systems – A STUDY'", Academic Open Internet Journal , Vol. 17, (2006).
13. M. Meenakshi and I. Andonovic, "Code-Based All Optical Routing Using Two-Level Coding", Journal of Lightwave Technology, Vol. 24, Issue 4, pp. 1627-1635 (2006).
14. A.V.Ramprasad and M.Meenakshi, "'A study of four wave mixing nonlinear effect on various fiber types in DWDM optical systems', ", Journal of Optics, Optical Society of INDIA , Vol. 35, Issue 3, (2006).
15. A.V.Ramprasad and M.Meenakshi,, "'Suppression of Four Wave Mixing Crosstalk Components –A comparative study between Genetic algorithm and Optical Orthogonal Codes'", Journal of Optics ,Optical Society of INDIA, Vol. 36, pp. 68-77 (2007).
16. A.V.Ramprasad and M.Meenakshi, "Performance of NRZ, RZ, CSRZ and VSB-RZ modulation formats in the presence of four-wave mixing effect in DWDM optical systems' , ", Journal of Optical Networking, , Vol. 6, Issue 2, pp. 146-156 (2007).
17. A.V.Ramprasad and M.Meenakshi, "Analysis of receiver sensitivity performance for DPSK optical communication using enhanced saddle point approximation method", ", Journal of Optical Communications, Germany,, Vol. 8, Issue 4, pp. 260-263 (2007).
18. M. Sabrigiriraj, M.Meenakshi and R. Roopkumar,, "Wavelength assignment in WDM linear array', ", Electronics Letters, The Institution of Engineering and Technology, Vol. 43, Issue 20, pp. 1111-1113 (2007).
19. Sabrigiriraj M., Meenakshi M., "'All-to-all broadcast in optical WDM networks under light-tree model", Elsevier Journal of Computer Communication31, Vol. 31, pp. 2562-2565 (2008).

20. A.V.Ramprasad and M.Meenakshi, "Performance measurement of various modulation formats in the presence of dispersion and non linear effects for WDM optical systems', ", Journal of Optics, Optical Society of INDIA, Vol. 36, pp. 78-86 (2008).
21. S.Malarvizhi and M. Meenakshi, "Performance Analysis of Coded Incremental Collision Resolution Multiple Access Protocol-CICRMA for Wireless Environment", ", Information Technology Journal , pp. 409-415 (2009).
22. Sabrigiriraj M., Meenakshi M. and Roopkumar R.,, "'Wavelength assignment for all-to-all broadcast in WDM optical ring with limited drops', ", Springer Journal of Optics, Vol. 38, Issue 2, pp. 103-123 (2009).
23. Sabrigiriraj M., Meenakshi M. and Roopkumar R.,, "Wavelength Assignment for All-to-all Broadcast in Wavelength Division Multiplexing Optical Ring', ", IETE Journal of Research, Vol. 55, Issue 5, pp. 236-241 (2009).
24. T.Manimekalai, Dr.M.Meenakshi Abitha.J, "A Cross Layer Design Strategy For Video Transmission With Priority Based Error Protection Scheme",", International Journal of Computational Intelligence Research & Application, Vol. 3, Issue 1, pp. 103-107 (2009).
25. T.Manimekalai, Dr.M.Meenakshi, D.Princy Dinal, R.S. Koteeshwari,, "Cross Layer Based Throughput Optimization in Cognitive Radio Networks With Effective Channel Sensing'", ICTACT Journal of Communication Technology, pp. 98-106 (2010).
26. Sabrigiriraj M., Meenakshi M. and Roopkumar R.,, " 'Wavelength assignment for all-to-all broadcast in WDM optical linear array with limited drops'", Elsevier Journal of Computer Communication, Vol. 33, pp. 1804-1808 (2010).
27. Sabrigiriraj M., Meenakshi M., "'Impact of physical layer impairments on the all-to-all broadcast in wavelength routed optical networks',", WSEAS Transactions on Communications,, Vol. 10, Issue 7, pp. 201-211 (2011).
28. Manimekalai, T.; Dinal, D. Princy; Koteeshwari, R. S.; Meenakshi, M., "Throughput Enhancement of Adhoc Cognitive Radio Networks Using Neural Network Techniques", European Journal of Scientific Research, Vol. 55, Issue 3, pp. 366-375 (2011).
29. T.Manimekalai, M.Meenakshi, "Throughput Enhancement of Adhoc Cognitive Radio Networks Using Neural Network Techniques', ", European Journal of Scientific Research, Vol. 55, Issue 3, pp. 366-375 (2011).
30. LakshmiPriya. I, Meenakshi. M and Geetha .G, "Design of Broadband Optical Source Based on FWM technique for WDM Applications',", International Journal of Emerging Trends in Computing and Information Sciences, (2012).
31. Akshitha.S.N. , Meenakshi.M, "Spectrally Efficient RoF Architecture for Unified Radio Access', ", International Journal of Systems, Algorithms and Applications, Vol. 2, pp. 176-179 (2012).
32. J Julia, M Meenakshi, ", "Performance Improvement in MIMO Systems Using Rotating Codebooks", ", Advances in Computing and Information Technology, Vol. 176, pp. 489-496 (2012).

33. Sitadevi Bharatula, M. Meenakshi,, "Design of Cognitive Radio Network for Hospital Management System", Wireless Personal Communications, (2012).
34. T.Manimekalai, Dr.M.Meenakshi, "Multichannel Cognitive Cross Layer Optimization for Improved Video Transmission", Journal of Computer Science, Vol. 9, Issue 1, pp. 43-54 (2013).
35. Sabrigiriraj M. and Meenakshi M., ""Multihop all-to-all broadcast in WDM optical Hypercube and Cube-connected cycle", IETE Journal of Research, (2013).
36. Brindha.S, M.Meenakshi,, "Radio over Fiber System Architecture: A boon to meet future energy and pollution challenges", Journal of Optoelectronics and Advanced Materialsq, (2014).
37. Brindha.S, M.Meenakshi,, "Small cell and cell zooming approach for cost effective green cellular communication", Networking and Communication Engineering, (2014).
38. Shanmuga Priya, M & Meenakshi, M, "Design and simulation of reconfigurable multi wavelength VCSEL using MEMS", Journal of Theoretical and Applied Information Technology, (2014).
39. VV Kumar, M Meenakshi, "Tunable Low Power UWB Transmitter for WBAN Application", Journal of Circuits, Systems, and Computers, (2014).
40. Geetha, G, Lakshmi Priya, I &Meenakshi,M, "Modeling of broadband light source for optical network applications using fiber non-linear effect", Journal of Theoretical and Applied Information Technology, Vol. 58, Issue 1, pp. 001-011 (2015).
41. Ilavarasan T, Meenakshi M, "An overview of fiber dispersion and nonlinearity compensation techniques in optical orthogonal frequency division multiplexing systems", Journal of Optics, pp. 255-270 (2015).
42. Meenakshi, "An Intelligent Fuzzy Based Energy Detection Approach for Cooperative Spectrum Sensing", Circuits and Systems, (2016).
43. Ilavarasan, Meenakshi, "Improved fiber nonlinearity mitigation in dispersion managed optical OFDM links ", Optics Communications, Elsevier Publications, (2016).
44. Vinodkumar V, Meenakshi M, "Tunable Low Power UWB Transmitter for WBAN Application", Journal of Circuits, Systems, and Computers, (2016).
45. I Tamilarasan, B Saminathan, M Murugappan, "Impairment assessment of orthogonal frequency division multiplexing over dispersion-managed links in backbone and backhaul networks", Optical Engineering , (2016).
46. Senthilkumar L, M. Meenakshi, and Vasantha Kumar, "Lyapunov Optimization Based Cross Layer Approach for Green Cellular Network", Journal of Green Engineering, Vol. 5, Issue 2, (2016).
47. Senthil Kumar L, Meenakshi M, "Cross-Layer Based Asymmetric Resource Allocation in Relay-Aided Cognitive Radio Networks", Wireless Personal Communications, published by Springer. (2017).

48. Senthil Kumar L, Meenakshi M, " Optimal Cross-Layer based Asymmetric Resource Allocation for Multidestination Relay Systems", IEEE Transactions on Wireless Communications, published by IEEE. Vol. 17, Issue 1, pp. 250-265 (2017).
49. Senthil Kumar L, Meenakshi M, " Asymmetric Resource Allocation in Relay-Aided Cognitive Radio networks", IEEE Xplore, published by IEEE. (2017).
50. A.P. Thilaga Shri Chandra, and M. Meenakshi, " Design consideration and time domain analysis of compact printed octagonal monopole UWB antenna for WBAN", IEEE Xplore, published by IEEE. pp. 1075-1079 (2017).
51. Thilaga Shri Chandra, Meenakshi M, "Modified Printed Octagonal Monopole UWB antenna for WBAN Applications", IEEE Explorer, IEEE Indian Antenna Week , published by IEEE. (2017).
52. Brindha Saminathan, Ilavarasan Tamilarasan & Meenakshi Murugappan, "Energy and electromagnetic pollution considerations in ARoF-based multi-operator multi-service systems", Photonic Network Communications, published by Springer. (2017).
53. Narmadha T, Kalaiarasi , Meenakshi M, "Lightweight secure ECG transmission in wireless body area networks — PRESENT cipher based implementation", IEEE Xplore, published by IEEE. (2018).
54. Thilaga Shri Chandra, Senthil Kumar L, Meenakshi M, "Joint Optimization of Ground, Feed Shapes with Material Distributive Topology of Patch in UWB Antennas using Improved BPSO", IET Microwaves, Antennas & Propagation, published by Cambridge Press. (2018).

## Papers Presented in Programmes

Research Papers Presented in International Programmes : 51  
 Research Papers Presented in National Programmes : 1

1. T.Manimekalai, M.Meenakshi, Abitha.J, "Design of Broadband Optical Sources for OCDMA /WDM Applications" presented in a International level conference on Proceedings of NeCOM – 2012, Springer Proceedings in Advances in Intelligent and Soft Computing, .
2. "Performance of FFH-OCDMA for Local Access Upgrade" presented in a International level conference on National Conference on Signals, Systems and Communication, Anna University..
3. "Simulation Study of OCDMA 'Schemes for local access upgrade" presented in a International level conference on 4th National Conference on Signals, Systems and Communication(NCSCS 08), Department of ECE, CEG, Anna University Chennai..
4. "Modeling of FFH-OCDMA system for local access upgrade" presented in a International level conference on IEEE International Conference AH-ICI..
5. "Turbo coding for FFH OCDMA system – A simulation study'," presented in a International level conference on Proceedings of the first National Conference on Communication networks and Sensor Technology, Hindustan Institute of Technology and Science..

6. "Design of Broad band Optical Sources for OCDMA/WDMA Applications" presented in a International level conference on Proceedings of International Conference on Advances in Computing & Information Technology(ACITY 2012 ) Springer, India, .
7. "All Digital Ultra Wideband Transmitter Design'," presented in a National level conference on National Conference on Current Trends in Computing, .
8. "Signal Analysis for Energy Efficient Ultra Wideband Radio" presented in a International level conference on International Conference on Information and Network Technology.
9. "A Cross Layer Design Strategy For Video Transmission With Priority Based Error Protection Scheme"," presented in a International level conference on Proceeding of International Conference on VLSI and Communication,.
10. "A cross layer Design strategy for video transmission with Unequal error protection scheme"" presented in a International level conference on Proceedings of IFIP International conference on Wireless and optical Communication Networks, .
11. A.V.Ramprasad and M.Meenakshi , ""RA-SPAN Protocol For Improving QoS Performance In Wireless Ad Hoc Networks", " presented in a International level conference on First Asian Himalayas International Conference on Internet.
12. "Throughput Analysis of wireless cooperative networks"" presented in a International level conference on Proceedings of 4th National Conference on Signals Systems and Communication, .
13. ", "Design of Cross Layer Optimizer For Video Streaming Over Wireless Networks", " presented in a International level conference on Proceedings of 4th National Conference on Signals Systems and Communication.
14. ""Wavelength assignment for all-to-all broadcast in WDM optical ring network"" presented in a International level conference on Proceedings of International conference on Signal processing, communication and networking (ICSCN'08), .
15. "Cross Layer Design of Application based Dynamic Resource Allocation for MIMO-OFDM Wireless Networks"" presented in a International level conference on Proceedings of National Conference on Advanced Communication Techniques,.
16. ""QoS based Configuration of Wireless Ooperative Network"," presented in a International level conference on Proceeding of National Conference on VLSI and Communication , organised by Saintgits College of Engineering,Kottayam..
17. ", 'Wavelength assignment for all-to-all broadcast in WDM optical networks with light splitters'," presented in a International level conference on Proceedings of International conference on Signal processing, communication and networking .
18. "Analytical performance of saddle point approach to calculate BER in Phase shift keying method " presented in a International level conference on 33rd Symposium of Journal of Optics, .



19. " 'Impact of linear and nonlinear crosstalk on the teletraffic performance of WDM optical networks'," presented in a International level conference on Third IEEE Conference on Wireless and optical communication networks .
20. "'Optimal modulation and coding scheme to suppress Four wave mixing in DWDM optical systems '" presented in a International level conference on IEEE Conference EXPLORER 2.0 in the Proceedings of Wireless and Optical Networking Third International .
21. "Study on the propagation characteristics of pulses in optical communication systems " presented in a International level conference on IEEE Conference in the Proceedings of Wireless and Optical Networking, Third International Conference .
22. "Q factor performance of various filter types in the generation of VSB modulation format at 40 Gb/s optical systems'" presented in a International level conference on PHOTONICS 2006, Eighth International Conference in Optical Communications.
23. "Analytical approach to calculate Bit Error rate in DPSK optical systems"" presented in a International level conference on PHOTONICS 2006 ,Eighth international conference in optical communications.
24. "'Design protection for physical security of data in WDM optical networks'" presented in a International level conference on (ICIS 2005) Proceedings of International Conference on Information Security, Allied Publishers Pvt. Ltd.
25. "'Path-based protection approach for WDM optical networks'" presented in a International level conference on (NCSSC-2005), National Conference on Signals, Systems and Communication.
26. "'Design protection for WDM networks using Simulated Annealing algorithm'," presented in a International level conference on (NCSSC-2005) National Conference on Signals, Systems and Communication,.
27. " "In-Band Crosstalk Performance of WDM Optical Networks Under Different Routing and Wavelength Assignment Algorithms"," presented in a International level conference on Proceedings of IWDC '2005, .
28. "Impact of routing and wavelength assignment algorithms on the crosstalk performance of WDM optical networks'," presented in a International level conference on Proceedings of the National conference on Signals, systems and communications (NCSSC'05), .
29. "'Dynamic routing and wavelength assignment in the presence of stimulated Raman scattering in WDM optical networks'" presented in a International level conference on Proceedings of the International conference on Optics and optoelectronics (ICOL 2005), .
30. ",'"Transmission properties of Various modulation formats in non linear fiber optic systems "" presented in a International level conference on First National Conference on Signals and Systems and Communication.
31. " A study of various modulation formats against the non linear distortion in DWDM systems"" presented in a International level conference on National Conference Conducted by Condensed Matter Physics Lab .

32. "A theoretical approach to analyse impact of Four wave mixing and calculate pdf on DWDM systems " presented in a International level conference on 28th International Conference on Union Radio Science of General Assembly , URSI-GA .
33. "A modulation technique providing Robustness against non linear effects in DWDM optical systems " presented in a International level conference on International Conference on Optical Networks .
34. "A study of ASK and PSK modulation formats towards the optimal transmission performances in optical communications" presented in a International level conference on International Conference on Optical Communications and Networks ICOCN .
35. S.Malarvizhi, M. Meenakshi , "Dynamic Routing and wavelength assignment with signal quality considerations for wavelength-routed optical networks'," presented in a International level conference on Proceedings of the First IEEE/IFIP International conference on wireless and optical communication networks (WOCN'04), ,, MUSCAT .
36. "A fast and accurate approach to the solution for signal gain in erbium doped fiber amplifiers'," presented in a International level conference on Proceedings of the First IEEE/IFIP International conference on wireless and optical communication networks (WOCN'04), , Muscat .
37. "Signal quality considerations for dynamic lightpath establishment in wavelength-routed optical networks'," presented in a International level conference on Proceedings of the conference on Distributed processing and networking (DPN'04), .
38. "Comparison of simulated annealing algorithm with genetic algorithm for optimal wavelength converter placement in wavelength-routed optical networks" presented in a International level conference on Proceedings of the conference on Distributed processing and networking (DPN'04).
39. "BER based dynamic routing and wavelength assignment for wavelength-routed optical networks'," presented in a International level conference on Proceedings of the Seventh international conference on Optoelectronics, Fiber optics and Photonics (PHOTONICS'04), Cochin University of Science and Technology.
40. "Comparison of prime code, extended prime code and quadratic congruence code using a normalized throughput metric" presented in a International level conference on Proceedings of the 6th IEEE International Conference on Transparent Optical Networks.
41. "Optimal Wavelength converter Placement in Wavelength-Routed Optical Networks'," presented in a International level conference on Proceedings of the Eleventh International conference on advanced computing and communications (ADCOM 2003), .
42. "Throughput Analysis of Collision Resolution Protocol-CICRMA " , " presented in a International level conference on Proceedings of 9th IEEE Asia Pacific Communication Conference"..
43. "Performance Analysis of Wireless Access Protocol DQRAP with Spreading codes" presented in a International level conference on Proceedings of International Conference on Wireless Communication Network IWCN 2003.

44. "BER based Adaptive rate control for CICRMA (Coded Incremental Collision Resolution Multiple Access) Protocol for Wireless networks"" presented in a International level conference on IEEE International Conference on Wireless Networks. .
45. ""Performance Analysis of Collision Resolution Protocol - CICRMA in Wireless Environment." presented in a International level conference on Proceeding of 9 th International Conference of Advanced Communications ADCOM 2003.
46. ""Analysis of Collision Resolution Protocol-CICRMA" presented in a International level conference on Proceedings of 11 th IEEE International Conference on Network ICON 2003.
47. ""Collision Resolution Protocol \_CICRMA (Coded Incremental; Collision Resolution Multiple Access) With Acknowledgement in Wireless Environment"" presented in a International level conference on Proceedings of International Conference on Emerging Technology ICET 2003. .
48. "Analysis of a Multichannel Wireless Access Protocol with non-instantaneous feedback under correlated fading"" presented in a International level conference on Proceedings of 10 th IEEE International Conference on Network ICON 2002.
49. "Multichannel Wireless Access Protocol under Correlated fading"" presented in a International level conference on Proceedings of 12th International IEEE Workshop on Local and Metropolitan Area Network LANMAN 2002.
50. " " A near Optimum MAC Protocol based on the Incremental Collision Multiple Access Protocol for CDMA based Communication"" presented in a International level conference on Proceedings of 5th IEEE International Symposium on Wireless Personal Multimedia Communication WPMC 2002, .
51. ""Performance Analysis Of CDPA"," presented in a International level conference on Proceedings of 8th National conference on Communication NCC 2001.
52. ""Performance Analysis Of CDPA: An Approach for Cellular Access"" presented in a International level conference on Proceedings of 9 th IEEE International Conference on Network ICON 2001,.

### Current Sponsored Projects

1. "RFID Based Infant Security and Infant Health Information System " ( September-2018 - March-2019 ). Project Cost: 19.90.

### Sponsored Projects Completed

1. "Wireless Body Area Networks for Telemedical Applications", funded by UGC (April-2012 - March-2017). Project Cost: 60.00.
2. "Identification of Communication System for Situation Awareness Unit (SAU)" (November-2010 - August-2011). Project Cost: 10.00.
3. "Application of CDMA techniques for Wireless and Optical Communication" (April-1999 - March-2001). Project Cost: 6.50.

### Programme Chaired

1. Chairman, International level conference titled "IEEE International Conference on Wireless Communications, Signal Processing and Networking" conducted by SSN COLLEGE OF ENGINEERING, OMR from 25-Mar-2016 to 25-Mar-2016.

### Programme Organized

1. Co-coordinator, National level workshop on "Communication Network Practice" from 14-Jun-2002 to 15-Jun-2002.
2. Co-coordinator, National level conference on "National Conference on Signals Systems and Communications 2005" from 01-Jun-2005 to 02-Jun-2005.
3. Co-coordinator, National level conference on "National Conferenec on Signals systems and Communications 2006" from 01-Jun-2006 to 02-Jun-2006.
4. Co-coordinator, National level conference on "National Conferenec on Signals systems and Communications 2007" from 01-Jun-2007 to 02-Jun-2007.
5. Coordinator, National level Short Course on "FDP on Digital Communication 2008" from 24-Nov-2008 to 30-Nov-2008.
6. Coordinator, National level Short Course on "FDP on Mobile Communication 2008" from 01-Dec-2008 to 07-Dec-2008.
7. Co-coordinator, International level conference on "International Conference on Signals systems and Communications 2008" from 01-Jun-2009 to 03-Jun-2009.
8. Coordinator, National level Short Course on "FDP on Optical Communication 2009" from 15-Jun-2009 to 19-Jun-2009.
9. Co-cordinator, National level workshop on "Research Challenges in Wireless and Optical Communication" from 29-Mar-2010 to 31-Mar-2010.
10. Coordinator, National level seminar on "Two Days UGC Sponsored Seminar on WBAN - Research Challenges and Enabling Technologies " from 22-Mar-2013 to 23-Mar-2013.
11. Coordinator, National level seminar on "Two Days UGC Sponsored Seminar on WBAN - Sensing and Signal Processing Challenges " from 23-Mar-2015 to 24-Mar-2015.
12. Coordinator, National level workshop on "Short Term Training Programme on Prototyping and Testbed Creation for 5G Wireless Communication" from 02-Mar-2016 to 06-Mar-2016.
13. Coordinator, International level Short Course on "GIAN Course on MIMO WIRELESS, PROF. PAULRAJ , STANFORD UNIVERSITY" from 08-Aug-2016 to 12-Aug-2016.

### Programme Attended

1. Participated in a International level workshop on "IEEE EMC Society lecture on "Demystifying Signal Integrity in High Speed Interconnects " organized by SAMEER, INDIA from 06-Jul-2016 to 06-Jul-2016.
2. Attended a National level Short Course on "FDP ON SECURE SYSTEMS ENGINEERING" organized by IIT MADRAS, INDIA from 05-Dec-2017 to 14-Dec-2017.

## Experience Abroad

1. Visited University of StrathClyde, Glasgow, United Kingdom from 10-Feb-2004 to 10-Aug-2004. Purpose of visit :Commonwealth Academic Staff Fellowship for Post Doctoral Research.

## Invited Lectures

1. Delivered a Lecture on "CoMP & its Challenges" in Workshop on LTE – Advanced organized by MIT Chrompet, Chennai (11-Oct-2014).
2. Delivered a Lecture on " Engineering Digital Green Era - EDGE2016" in International Conference organized by RAJALAKSHMI ENGINEERING COLLEGE, CHENNAI (17-Mar-2016).
3. Delivered a Lecture on "On Recent Trends And Developments In Broadband Technologies" in QIP STC organized by PONDICHERY ENGINEERING COLLEGE, PONDICHERY (10-Nov-2016).
4. Delivered a Lecture on "Basics of Digital Communication Systems" in CVRDE CEP organized by CVRDE , Avadi (12-Sep-2017).
5. Delivered a Lecture on "5G Wireless Communication - Vision, Challenges and Enabling Technologies-" in STTP on NEXT GENERATION WIRELESS COMMUNICATON SYSTEM ARCHITECTURE organized by Govt. College of Engg Kannur, Kannur, Kerala (27-Nov-2017).
6. Delivered a Lecture on "5G Wireless Communication " in National Conference on Signal Processing, Communication & Networking NCSPCN-2018 organized by SRI VENKATESWARA COLLEGE OF ENGINEERING , Sriiperumbudur - 602 117 (16-Apr-2018).
7. Delivered a Lecture on "Digital Modulation Fundamentals" in FDP on Digital Communications organized by SSN College of Engineering, OMR,Chennai (15-Jun-2018).
8. Delivered a Lecture on "5G Wireless Communication – A Glimpse on Massive MIMO & Beamforming" in Workshop on 5G Wireless Communication organized by SRM University, Kattangulathur Chennai (02-Aug-2018).