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Present Position

Assistant Professor, Department of Electronics and Communication Engineering, College of Engineering Guindy, Anna University, Chennai from October-2008.

Previous Positions

- Lecturer, Department of Electronics and Communication Engineering, College of Engineering Guindy, Anna University, Chennai during August-2004 and October-2008.

Other Employment

- Lecturer, St Peter Engineering College for 7 years.

Degree

- ❖ M.E. in ELECTRONICS AND COMMUNICATION ENGG , College of Engg,Guindy , Anna University (1999 - 2001).

Research Degree

- ❖ Ph.D. in Wireless Networks from Faculty of Information and Communication Engineering, College of Engg Guindy, Anna University (2005 - 2012).
Title: Cross Layer Design Based Solutions for Qos Enhancement in Wireless Networks.

Area of Specialisation

- Wireless Communication , Signal processing

Research Guidance

Number of M.E./ M.Tech. Projects : 15

Guided

Number of M.E./ M.Tech. Projects : 1

Guiding

Papers Published in Journals

Research Papers Published in International Journals : 8
 Research Papers Published in National Journals : 0

1. Manimekalai, T Meenakshi, M. and Abitha, J, " A Cross Layer Design Strategy For Video Transmission with Priority based Error Protection scheme", International Journal of Computational Intelligence Research & Application, published by Serial Publication. Vol. 3, Issue 1, pp. 103-107 (2009).
2. Manimekalai. T, Meenakshi, M., Princy Dinal, D. and Koteeshwari, R.S, " Cross Layer Based Throughput Optimization in Cognitive Radio Networks with Effective Channel Sensing Schemes", ICTACT Journal on Communication Technology,, Vol. 1, Issue 1, pp. 98-106 (2010).
3. Manimekalai, T., Meenakshi, M., Princy Dinal, D. and Koteeshwari, R.S, " Throughput Enhancement of Adhoc Cognitive Radio Networks using Neural Network Techniques", European Journal of Scientific Research , published by Euro Journals. Vol. 55, Issue 3, pp. 366-375 (2011).
4. Manimekalai, T., Meenakshi, M. and Maneesha S. Mohan,, " Multichannel Cognitive Cross Layer Optimization For Improved Video Transmission", Journal of Computer Science, published by Science Publication. Vol. 9, Issue 1, pp. 43-54 (2013).
5. Subaselvi, S.; Manimekalai, T.; Gunaseelan, K., "Energy Efficient Recursive Clustering and Gathering in Big Data for Wireless Sensor Networks", Sensor Letters, published by American Scientific Publishers. Vol. 17, Issue 9, pp. 680-687 (2019).
6. S. Karthika · T. Manimekalai · T. Laxmikandan, " A Comparative Study of Digital Self-Interference Cancellation Techniques in In-Band Full-Duplex OFDM Systems", Wireless Personal Communications , published by Springer. Vol. 110, Issue 1, pp. 31-44 (2020).
7. Thirunavukkarasu Manimekalai | Sparjan Romera Joan | Thangavelu Laxmikandan, " Throughput maximization for underlay CR multicarrier NOMA network with cooperative communication", ETRI Journal, published by Wiley. pp. 1-13 (2020).
8. Manimekalai Thirunavukkarasu, Romera Joan Sparjan Laxmikandan Thangavelu, "An Adaptive Power Allocation Scheme for Performance Improvement of Cooperative SWIPT NOMA Wireless Networks", CMC-Computers, Materials & Continua, , published by Tech science. Vol. 63, Issue 2, pp. 1043-1064 (2020).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 8
 Research Papers Presented in National Programmes : 9

1. S.Poonguzhali, T Manimekalai, "Cross Layer Design of Ad hoc networks With QoS support" presented in a National level conference on 3rd National conference for Research Scholars on Application of Emerging Technologies, India .

2. Tarakapraveen Uppalapati, Manimekalai T, Meenakshi M, "Cross Layer Design of Application based Dynamic Resource Allocation for MIMO-OFDM Wireless Networks" presented in a National level conference on National Conference on Advanced Communication Techniques, India .
3. Rekha, T Manimekalai, "QoS based Configuration of Wireless Cooperative Network" presented in a National level conference on National Conference on VLSI and Communication, organised by Saintgits College of Engineering, Kottayam., India .
4. Arunsundar.S T.Manimekalai, "Throughput Analysis of wireless cooperative networks" presented in a National level conference on 4th National Conference on Signals Systems and Communication, India .
5. Swaminathan .K, M.Meenakshi, T.Manimekalai, "Design of Cross Layer Optimizer For Video Streaming Over Wireless Networks" presented in a National level conference on 4th National Conference on Signals Systems and Communication, India .
6. Princy Dinal, Koteeshwari RS, T Manimekalai Meenakshi M, "Neural Network based Throughput Maximization techniques for Cognitive Radio Wireless Networks" presented in a International level conference on International conference on Embedded Systems, ICES 2010., organised by CIT Coimbatore, India .
7. Abitha J., Manimekalai T, Meenakshi M, "A Cross Layer Design Strategy For Video Transmission With Priority Based Error Protection Scheme" presented in a International level conference on International Conference on VLSI and Communication, organised by Saintgits College of Engineering, India from 16-Apr-2009 to 18-Apr-2009.
8. T.Manimekalai, Abitha J, Meenakshi M , "A Cross Layer Design Strategy For Video Transmission with Unequal Error Protection" presented in a International level conference on 6th International Conference on Wireless and Optical Communication Networks, organised by IEEE, Egypt from 28-Apr-2009 to 30-Apr-2009.
9. Manimekalai T, Saravana Selvi P , Meenakshi M, "RA-SPAN Protocol for improving QoS Performance in Wireless AdHoc Networks" presented in a National level conference on First Asian Himalaya International Conference on Internet, organised by IEEE Sponsored, Nepal from 03-Nov-2009 to 05-Nov-2009.
10. Goldy Rishana , Manimekalai T, "Power control for secondary users in a Cognitive Radio Network" presented in a National level conference on National Electrical and Electrical and Electronics Innovative Conference GNEESIC'12., organised by St.Xavior's Catholic College of Engineering, India from 15-Mar-2012 to 16-Mar-2012.
11. Farian Ishengoma, Manimekalai T, "Cooperative Spectrum Sensing Scheduling for Energy Efficiency in cognitive radio network" presented in a National level conference on National Conference on Green Technology concept for Bridging the Digital Divide using ICT., organised by Pondicherry Engg College, India from 05-Jul-2013 to 06-Jul-2013.
12. Anitha S Manimekalai T, "Power Adaptive Co-operation in Underlay Cognitive Radio Networks" presented in a National level conference on National Conference on Advanced Computing and Communication Systems, organised by Government College of Technology, Coimbatore, India from 10-Apr-2015 to 11-Apr-2015.

13. K P Nisha ,Manimekalai T, "RELAY BASED CELLULAR DEVICE TO DEVICE COMMUNICATION WITH BLOCKING AND INTERFERENCE ANALYSIS" presented in a International level conference on International Conference on Innovation and Emerging Trends in Engineering And Technologies, organised by Panimalar Engineering College, India from 07-May-2016.
14. Vidhya P V, Manimekalai T, "STUDY OF GREEN ENERGY POWERED COGNITIVE RADIO NETWORKS" presented in a International level conference on International Conference on Innovation and Emerging Trends in Engineering And Technologies, organised by Panimalar Engineering College, India from 07-May-2016.
15. Anitha S Manimekalai T, "Power Adaptive Relay Selection and Interference Mitigation in Underlay Cognitive Radio Networks" presented in a International level conference on International Conference on Engineering, Energy and Environment,ICEEE-2017, organised by TRP Engineering College, India from 31-Mar-2017 to 02-Apr-2017.
16. Jayashiri S M, Manimekalai T, Laxmikandan T, Ramitha E, "Improved Tri Threshold Detection for Cooperative Spectrum Sensing in Cognitive Radio" presented in a International level conference on International Conference on Innovation & Discoveries in Science ,Engineering & Technology, organised by KCG College of Technology, India from 17-Apr-2018 to 18-Apr-2018.
17. AthisayaAnushya.T , Laxmikandan T, Manimekalai T, "Dual Mode Dual Index Orthogonal Division Multiplexing Index Modulation" presented in a International level conference on 2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE), organised by VIT,Vellore, India from 24-Feb-2020 to 25-Feb-2020.

Current Sponsored Projects

1. "Identification of Communication system for Situational Awareness Unit".. Project Cost: 9.95.

Sponsored Projects Completed

1. "Prototype development of spectrum sensing unit" (March-2015 - September-2015). Project Cost: 0.25.

Programme Chaired

1. Chairman, International level conference titled "International Conference on Comunication Computing & Internet of Things" conducted by Sai Ram Engineering College from 15-Feb-2018 to 17-Feb-2018.

Programme Organized

1. International level conference.
2. Co ordinator, National level Short Course on "Transmission lines and Waveguides" from 24-May-2010 to 31-May-2010.

3. Co ordinator, National level workshop on "Network Simulation Tools" from 01-Mar-2013 to 02-Mar-2013.
4. Co Ordinator, National level workshop on "Cognitive Radio Networks - Enabling Technologies And Challenges" from 08-Jan-2015 to 10-Jan-2015.
5. Co ordinator, National level Short Course on "Prototyping Tools and Testbed Creation for 5G Wireless Communication" from 02-Mar-2016 to 06-Mar-2016.

Programme Attended

1. Attended a National level Short Course on "Faculty development Training programme on, "Electromagnetic Waves and Waveguides"" organized by College Of Engineering Guindy, Chennai, India from 05-Dec-2005 to 17-Dec-2005.
2. Participated in a National level workshop on "Ad-hoc Networks" organized by Department of Information Technology MIT Campus, Anna University, Chennai., India from 22-Mar-2007 to 23-Mar-2007.
3. Participated in a National level workshop on "Research Challenges in Wireless and Optical Communication Networks " organized by Department of ECE,CEG campus ,Anna University, , India from 30-Mar-2007 to 31-Mar-2007.
4. Participated in a National level workshop on "Emerging trends in VLSI and ASIC Designs" organized by Department of ECE,CEG campus, Anna University, Chennai., India from 07-Apr-2007.
5. Participated in a National level workshop on "Mentoring Youth And Adolescents" organized by CEG Campus, Anna University, Chennai., India from 16-May-2007.
6. Attended a National level Short Course on "Probability and random process, Digital communication" organized by IEEE Madras section, at IIT Madras, India from 17-Nov-2007 to 18-Nov-2007.
7. Attended a National level Short Course on "Digital Communicatio" organized by College Of Engineering Guindy, Chennai., India from 24-Nov-2008 to 30-Nov-2008.
8. Attended a National level Short Course on "EC-1451 Mobile Communication" organized by College Of Engineering Guindy, Chennai., India from 05-Dec-2008.
9. Participated in a International level conference on "Sixth IEEE and IFIP International Conference on Wireless and Optical Communication Networks(WOCN2009)" , EGYPT from 28-Apr-2009 to 30-Apr-2009.
10. Participated in a National level workshop on "Next Generation Wireless Technologies-Long term Evolution(NGWT-LTE)" organized by MIT,Chennai, India from 04-Dec-2009 to 05-Dec-2009.
11. Attended a National level Short Course on "AICTE Sponsored Staff Development programme on" Communication Dictionary" , India from 30-May-2011 to 12-Jun-2011.

12. Participated in a National level workshop on "ISTE Workshop on"Basic Electronics"" organized by IIT Bombay, India from 28-Jun-2011 to 08-Jul-2011.
13. Participated in a International level workshop on "Workshop on simulation of Advanced Networks using NS-2(WSAN-11)" organized by College of Engineering Guindy,Chennai, India from 02-Dec-2011 to 03-Dec-2011.
14. Attended a National level seminar on "WBAN-Challenges and Enabling Technologies" , India from 22-Mar-2013 to 23-Mar-2013.
15. Attended a National level Short Course on "Faculty Development Programme on “ Digital Signal Processing" organized by MIT,Chennai, India from 17-Jun-2013 to 23-Jun-2013.
16. Participated in a National level workshop on "ISTE workshop on Control systems " organized by IIT KHARAGPUR, India from 02-Dec-2014 to 12-Dec-2014.
17. Attended a National level seminar on "Seminar on WBAN-Sensing and signal processing Challenges" organized by College of Engineering Guindy, India from 23-May-2015 to 24-Mar-2015.
18. Attended a International level Short Course on "Introduction to Design of Algorithms " organized by IIT KHARAGPUR, India from 25-May-2015 to 30-May-2015.
19. Participated in a International level workshop on "on Internet of Things (IoT)-Technology of Tomorrow" organized by College of Engineering Guindy,Chennai, India from 26-Nov-2015 to 27-Nov-2015.
20. Attended a International level seminar on "Change Management & Capacity Building To Improve Quality of Service" organized by College og Engineering Guindy, India from 24-Feb-2016 to 31-Dec-1969.
21. Attended a National level Short Course on "Characterizing and Modeling Wireless Channels" organized by NIT,Rourkela, India from 06-Jun-2017 to 10-Jun-2017.
22. Participated in a National level workshop on "Two week FDTP on Induction Program for Students" organized by Anna University, India from 18-Jun-2018 to 29-Jun-2018.

Experience Abroad

1. Visited IEEE Sponsered, Egypt from 28-Apr-2009 to 30-Apr-2009. Purpose of visit :Presentation in Conference.