

Department of Electronics and Communication Engineering
UCE- Panruti
Chennai-Kumbakonam Highway, Panruti-607 106
8428440141/8838553935
umaamirthalingam@ucep.edu.in ; umamaheswaritrk@gmail.com



Mrs **Assistant Professor(Sl. Gr.)**

➤ **Ph.D Thesis Title:**

Heuristic study on Sensing and Sharing for Cognitive Radio Applications

➤ **Educational Qualifications:**

Qualification	Institution/Univrsity	Year (From -To)	Percentage	Class
Ph.D	Anna University	2011-2020		
M.E(Applied Electronics)	Arunai Engineering College, Tiruvannamalai	2004-2006	75%	Dist
B.E(ECE)	Regional Engineering College, Durgapur, West Bengal	1993-1997	71.7%	I Class
HSC	Immaculate Heart of Mary's GHSS , Pondicherry	1993	92.3%	I Class
Matriculation	Fatima Matriculation School, Vriddhachalam	1991	76%	I Class

➤ **Experience:**

Name of Company / Institution	Designation of Post	From	To	Relieved on
UCE- Panruti	Assistant Professor (Sl. Gr.)	26.08.2019	Till Date	
UCE- Panruti	Assistant Professor (Sr.Gr.)	26.08.2014	25.08.2019	
UCE- Panruti	Assistant Professor	18.06.2014	25.08.2014	
Anna University – BIT Campus	Assistant Professor	26.08.2009	17.06.2014	17.06.2014
Arunai Engineering College, Tiruvannamalai	Senior Lecturer	01.06.2006	25.08.2009	25.08.2009

Arunai Engineering College, Tiruvannamalai	Lecturer	21.07.2003	31.07.2004	31.07.2004
Cognizant Technology Solutions, Chennai	Associate	18.08.1997	18.07.2003	18.07.2003

➤ **Awards:**

- Best Lecture Award 2007 at Arunai Engineering College, Tiruvannamalai

➤ **Additional / Academic Responsibilities at University:**

- HOD(i/c) at Dept. of ECE,UCE – Panruti (approximately 8 months)

➤ **Professional Activities:**

- Jury in the National Level Technical Symposium “GEMOTRANZ’2K16” organized by the Department of EEE,UCE – Panruti on 29.09.2016
- Delivered lecture in the Anna University ,Chennai -600 025 sponsored FDP on EC6303 – Signals and Systems at V.R.S College of Engineering and Technology, Villupuram on 08.06.2014
- Jury in the National Level Technical Symposium “ELCOMEET – 2013” organized by the Department of ECE, V.R.S College of Engineering and Technology, Villupuram on 08.03.2013
- Jury in the National Level Technical Symposium “Mostrax2k14 ” organized by the Department of ECE, UCE – Arni on 09.10.2014
- Co-ordinator of National Level Conference NTSIPCOM’11 “Nascent Technologies in Signal Processing and Communication” on 17th and 18th March at AUT – Trichy
- Organized a one day National Level Workshop titled “Discrete Event Simulation for protocol design in Wireless Networks” on 22nd December 2010 at AUT- Trichy
- Jury in the National Conference “4th National Conference in Research and Development in Science, Engineering and Technology - NCRDSET ‘18 ”conducted by St.Anne’s College of Engineering and Technology,Anguchettipalayam on 23.3.2018

➤ **Membership of Scientific and Professional Societies:**

- ISTE – Life Member

➤ **Completed B.E/M.E Projects:**

- a. Number of ME Projects Completed: Nos. 8
- b. Number of BE Project Completed: Nos 24

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

- a. Training Program (2014) “CADENCE ORCAD SIMULATION AND PCB DESIGN SOFTWARE”, organized by University College Of Engineering - Villupuram during 12-08-2014 to 14-08-2014(Three days)
- b. TEQIP II sponsored FDP(2014),” EMBEDDED SYSTEM DESIGN USING RENESAS RL78 MICROCONTROLLER”, organized by FRONTLINE ELECTRONICS PVT LTD SALEM during 05-05-2014 to 09-05-2014(Five days)
- c. TEQIP II sponsored FDP(2014),” Soft Computing Techniques in Electrical Engineering(SCTEE)”, organized by Dept of EEE, Anna University-BIT Campus, Trichy during 19-08-2013 to 25-05-2013(Seven days)
- d. One day workshop(2014),”DSP TRAINERS”, organized by UCE – Tindivanam during 19.09.2014(one day)
- e. QIP FDP(2013),”SMART Teaching for the NET Generation “,organized by NITTTR, Chennai during 09.12.2013 to 23.12.2013(15 days)
- f. National Level Seminar(2012),” KNOWLEDGE DISCOVERY IN DATABASES AND R FOR BIG DATA ANALYSIS”, organized by K.L.N College of Information Technology during 14.08.2012(one day)
- g. One day Workshop(2011),”Train the Trainers”, organized by the Dept. of English, AUT-Trichy during 08.01.2011(one day)
- h. AICTE sponsored 14 days Summer Winter School programme(2015),”Soft Computing Techniques for Engineering Research and its Applications”, organized by the Dept. of ECE, Sri Ramakrishna Engineering College, Coimbatore during 8.6.2015 to 21.6.2015(14 days)
- i. Training Programme (2015),” Integrated Electronics Workbench Training Programme”, organized by Dept of ECE,UCE – Villupuram during 22.07.2015 to 24.07.2015(Three days)
- j. TEQIP II Sponsored FDP(2016),” Trends in Grid, Cloud and High Performance Computing “,organized by the Dept of IT , Bharathidasan Institute of Technology, Tiruchirappalli during 20.6.2016 to 03.07.2016(14 days)
- k. CFD sponsored FDP (2017),”EC8252 – Electronic Devices”, organized by Department of ECE,UCE-Panruti during 24.11.2017 to 30.11.2017(seven days)

➤ **International Conferences Participated:**

- a. International Conference on Communication and Control Engineering(2016), "Development of 6-gon Shaped notch filter for Cognitive radio Applications", organized by Department of ECE,UCE – Villupuram during 29.12.2016 to 30.12.2016
- b. International Conference on Advances in Applied Engineering and Technology-2015(2015), " Detecting Primary User Emulation Attacks in Cognitive Radio Networks ", organized by Syed Ammal Engineering College, Ramanathapuram during 14.05.2015 to 16.05.2015.
- c. International Conference on Advancements in Automation and Control-2014(2014), " Unsupervised learning for Robust Signal Classification ", organized by Department of ECE, Syed Ammal Engineering College, Ramanathapuram during 14.05.2015 to 16.05.2015.
- d. International Conference on Trends in Engineering(2014), " Design of AS LMS Adaptive filter for reduction of motion artifacts in PPG signals ", organized by Tamizhan College of Engineering and Engineering during 19.02.2014 to 20.02.2014.
- e. The 3rd International Conference on Computer Engineering & Mathematical Sciences 2014 (ICCEMS 2014) organized by ICCEMS December 4-5, Langkawi, Malaysia.
- f. International Conference on Computing, Communication and Drastic Innovation in Energy Thrive, "Cortex Feet: Design of Smart Shoes for Foot Neuropathy", organized by UCE – Panruti during 28.2.2018 to 1.3.2018
- g. International Conference on Computing, Communication and Drastic Innovation in Energy Thrive, "Accessing the Banned Websites through E-Mail Tunneling", organized by UCE – Panruti during 28.2.2018 to 1.3.2018

➤ **Publications :**

a. **International Journals:**

- a. "An Investigation of Ultra-Wideband Filters for Cognitive Radio Networks", Journal of Advances in Chemistry, Vol. 12, No.13, pp. 5189-5196, November 2016.
- b. "Design of 6-gon Shaped Notch Filter for Cognitive Radio Applications", Journal of Circuits, Systems, and Computers, Vol. 27, No.6, pp. 1-9, June 2018.
- c. "Detecting Primary User Emulation Attacks in Cognitive Radio Networks", International Journal of Applied Engineering Research ,ISSN 0973- 4562 ,Online ISSN 1087--109 ,Vol. 10 ,No.55(2015) ,Research India Publications

b. National Journals:

- a. "Unsupervised Learning for Robust Signal Classification", ISSN 1660- 9336, Vol. 573 (2014), Applied Mechanics and Materials Journal, 2014 Trans Tech Publications, Switzerland.

➤ **Conferences**

a. International Conferences:

- a. International Conference on Communication and Control Engineering(2016), "Development of 6-gon Shaped notch filter for Cognitive radio Applications", organized by Department of ECE,UCE – Villupuram during 29.12.2016 to 30.12.2016
- b. International Conference on Advances in Applied Engineering and Technology- 2015(2015), " Detecting Primary User Emulation Attacks in Cognitive Radio Networks ", organized by Syed Ammal Engineering College, Ramanathapuram during 14.05.2015 to 16.05.2015.
- c. International Conference on Advancements in Automation and Control- 2014(2014), " Unsupervised learning for Robust Signal Classification ", organized by Department of ECE, Syed Ammal Engineering College, Ramanathapuram during 14.05.2015 to 16.05.2015.

- d. International Conference on Trends in Engineering(2014), " Design of AS LMS Adaptive filter for reduction of motion artifacts in PPG signals ", organized by Tamizhan College of Engineering and Engineering during 19.02.2014 to 20.02.2014.
- e. The 3rd International Conference on Computer Engineering & Mathematical Sciences 2014 (ICCEMS 2014) organized by ICCEMS December 4-5, Langkawi, Malaysia.
- f. International Conference on Computing, Communication and Drastic Innovation in Energy Thrive, "Cortex Feet: Design of Smart Shoes for Foot Neuropathy", organized by UCE – Panruti during 28.2.2018 to 1.3.2018
- g. International Conference on Computing, Communication and Drastic Innovation in Energy Thrive, "Accessing the Banned Websites through E-Mail Tunneling", organized by UCE – Panruti during 28.2.2018 to 1.3.2018

b. National Conferences:

- a. National Conference on Electronics, Signal/Image Processing and Communication Systems," Analysis of Noisy and Incomplete Images based on Bayesian and Parametric method", organized by Department of ECE,Idhaya Engineering College for Women during 22.2.2014
- b. National Conference on Modern Electronics and Signal Processing," Detection and Segmentation of Brain Tumour using Ditributed Estimation", organized by Department of ECE,Velammal Engineering ,Chennai during 14.3.2014