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Designation : Professor

Department : ECE

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1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	ECE	Manonmanium Sundaranar University, Tirunelveli	1997
M.E	Communication Systems	Anna University Chennai	2004
M.B.A	Production Management	Madurai Kamaraj University, Madurai.	2005
M.Phil.	Management	Madurai Kamaraj University, Madurai.	2007
Ph.D	ICE	Anna University, Chennai	2016

2. Professional/ Industry Experience: (in chronological order)

S.No	Designation	Institution/ Organization	Period	
			From	To
1	Professor & Head	Ramco Institute of Technology, Rajapalayam	27.03.2023	Till Now
2	Professor / ECE & COE	S.A. Engineering College, Chennai	07.01.2016	23.03.2023
3	Associate Professor / ECE	S.A. Engineering College, Chennai	02.10.2012	06.01.2016
4	Assistant Professor / ECE	S.A. Engineering College, Chennai	01.12.2010	01.10.2012

5	Assistant Professor / ECE	P A Aziz College of Engineering and Technology, Thiruvananthapuram, Kerala.	21/01/2008	18/10/2010
6	Assistant Professor / ECE	Sahrdaya College of Engineering and Technology, Kodakara, Thrissur, Kerala	11/09/2006	06/02/2008
7	Senior Lecturer	Sahrdaya College of Engineering and Technology, Kodakara, Thrissur, Kerala	01/06/2005	11/09/2006
8	Lecturer	Kongu Engineering College, Perundurai	09/06/2004	22/04/2005
9	Lecturer	Sun College of Engineering and Technology, Nagercoil.	01/12/2003	31/05/2004
10	Assistant Engineer	B S Y F, Jeddah, Kingdom of Saudi Arabia	10/08/1998	22/08/2002
11	Service Engineer	Athira Computers, Nagercoil	01/07/1997	06/08/1998

3. Research Interest: Wireless Communication, RF & Antenna, Photonics, and Signal Processing.

4. Publications:

- International Journals: 53
- International Conferences: 35
- National Conferences: 17

Post-Doctoral International Publications:

1. **C Arunachalaperumal**, B Chandru “Performance analysis of cobalt metal with fluoropolymer matrix as a substrate for patch antenna”, Integrated Ferroelectrics, Taylor & Francis Vol. 176 (1), 126-131, 2016
2. **C. Arunachalaperumal**, B. Julee Choudary, Kavitha Ganesan and V. Ashwini, “Wireless supervisory controls for industrial automation”, International Journal of Wireless and Mobile Computing Vol. 12, No. 2, pp 182-190, 2017.
3. **C Arunachalaperumal**, S Dhilipkumar, G Abija,”Enhanced 3D MIMO Channel for Urban Macro Environment”, International Journal of Pure and Applied Mathematics 118 (10), 259-269, 2018.
4. P Dinesh Anton Raja, **C Arunachalaperumal**, B A Ganesh, “Cooperative Network Coding Communication Wireless Protocol Interfaces for Real-time Monitoring Of Environmental Parameters Using Cozir Sensor”, Sensor Letters, American Scientific Publishers, Volume 17, Number 2, pp. 160-176(17), February 2019.
5. S Dhilipkumar, **C Arunachalaperumal**, K Thanigaivelu, “A comparative study of resource allocation schemes for D2D networks underlay cellular networks”, Wireless Personal Communications, Springer US, Vol. 106 (3), 1075-1087, 2019.
6. P Surya, **C Arunachalaperumal**, S Dhilip Kumar, K Manikandan, “Design of Parallel pipelined DIF-FFT Architecture”, Test Engineering and Management, Volume 82, pp. 2210-2213, February 2020.
7. **C Arunachalaperumal**, S Dhilipkumar, “An Efficient Image Quality Enhancement using Wavelet Transform”, Materials Today: Proceedings, Volume 24, Part 3, Pages 2004-2010, Elsevier, 2020.
8. S Dhilipkumar, **C Arunachalaperumal**, “Smart toll collection system using zigbee and RFid”,

- Materials Today: Proceedings, Volume 24, Part 3,2054-2061, Elsevier, 2020.
9. PDA Raja, D Akash, SJP Kumar, DS Harsha, C Arunachalaperumal, “Feature extraction and classification of EEG signal based anomaly detection and home automation for physically challenged/impaired people using neurosky mindwave headset”, AIP Conference Proceedings, Volume 2207, Issue 1, 2020.
 10. B Satheesh Monikandan, A Sivasubramanian, SPK Babu, GKD Prasanna Venkatesan, **C Arunachalaperumal**, “Channel aware optimized proportional fair scheduler for LTE downlink”, Peer-to-Peer Networking and Applications, Springer, Volume 13, 2135–2144 (2020). <https://doi.org/10.1007/s12083-019-00826-z>.
 11. S Dhilipkumar, **C Arunachalaperumal**. “Performance Evaluation of Interference Mitigation Scheme with D2D Users in Wireless Networks”, Wireless Personal Communications, Springer, Volume 119, 3399–3412 (2021). <https://doi.org/10.1007/s11277-021-08413-3>.
 12. T.D.Subha, **C.Arunachalaperumal**, T.D.Subash, “Nonlinear adaptive smart antenna resource management for 5 G through to surveillance systems”, Materials Today: Proceedings, Volume 43, Part 6, Pages 3562-3571, Elsevier, 2021.
 13. Dinesh Anton Raja, P., **Arunachalaperumal C.**, Divya, M, “Smart building evacuation system with hybrid network based CNC-C architecture”, Journal of Ambient Intelligence and Smart Environments, Vol. 14, Issue No. 4, SCI (impact factor 2.759), 2022.
 14. Subha, T.D., **Arunachalaperumal C.**, Subash, T.D., Jeepa, K.J, “A hybrid technique employed for efficiency improvement of tandem perovskite solar cell”, Progress in Photovoltaics: Research and Applications, Vol. 31, Issue No. 2 SCI (impact factor **8.49**), 2023
 15. T.D.Subha, **C.Arunachalaperumal**, “ A hybrid CapSA-WHO method used for performance enhancement of tandem perovskite solar cell”, Expert Systems with Application (ESWA), Elsevier, Vol. 230, Issue No. 15 SCI (Impact factor **8.665**) <https://doi.org/10.1016/j.eswa.2023.120554>, 2023.
 16. Pitchandi@Sankaralingam, R., **Arunachalaperumal C.**, and Mary Anita, E.A. ‘Improved Reptile Search Algorithm with Sequential Assignment Routing Based False Packet Forwarding Scheme for Source Location Privacy Protection on Wireless Sensor Networks’, Journal of Intelligent & Fuzzy Systems. Vol. 46, No. 1, pp. 1801-1812, 2024, DOI: 10.3233/JIFS-233541 (Impact factor 2)
 17. Aruna KB, **Arunachalaperumal C.**, “Development of hybrid heuristic-assisted dynamic data auditing strategy in cloud sector”, Transactions on Emerging Telecommunications Technologies, Volume 35, Issue 2. 2024;35(2): e4937. doi: 10.1002/ett.4937. (Impact factor 3.6).
 18. M. Ramya and **C. Arunachalaperumal**, “Energy-Efficient 5G Heterogeneous Cloud Radio Access Networks (RRH to BBU) Using a Hybrid OGASCDASA-SAGMDEBROA Scheduling Algorithm”, IETE Journal of Research, DOI: 10.1080/03772063.2023.2300342 (Impact factor 1.6)

5. Funded Projects/Grants:

Sl. No.	Title of the project	Funding Agency	Duration	Amount (in Rs.)	Status
1	VHDL implementation of An Efficient Trellis coded Spatial Modulation Scheme for Satellite MIMO Communication	ISRO	2 Years	14.78Lakhs	Completed
2	A Study on Fault Diagnosis and Health Monitoring of Engine Control Junction Box (ECJB) for Arjun MBT Mk I	CVRDE/DRDO	3 Years	14.32Lakhs	Completed
3	Design of 0.18 micrometer CMOS Dual band Low Noise Amplifier (LNA) for IRNSS Applications	ISRO	2 Years	27.44Lakhs	Completed
4	Novel Suspended Nodes Communication Network using WiFi for Disaster Prone Areas	AICTE	3 Years	7.61 Lakhs	Completed
5	Mini Colloquium on Advancements in Photonics and Optical Network	IEEE Photonics Society	3 Days	1.00 Lakhs	Completed
6	IEEE International Conference on	SERB/DST	2 Days	1.50 Lakhs	Completed

	Photonics and High-Speed Optical Networks- ICPHON2018				
7	Annual grant	IEEE Photonics Society	1 Year	1.71 Lakhs	Completed
8	Advances in Optical Burst Switching	IEEE Photonics Society	1 Day	10,000	Completed
9	National Seminar on Pervasive Health Care Technology	CSIR	2 Days	40,000	Completed
10	STTP on Green Communication and Networks	AICTE	5 Days	3.59 Lakhs	Completed
11	Seminar Cum Workshop on Photonics and Optical N/Ws	IEEE Photonics Society	2 Days	40,000	Completed
12	ATAL FDP on Trends in 5G – Applications in Bio-Medical	AICTE	1 Week	3.5 Lakhs	Completed

6. Ph.D. Guidance:

Sl. No.	Scholar Name	University	Topic	Status
1.	Dr.S.Dhilipkumar	Anna University, Chennai	AN Investigation on Interference in D2D Networks Coexistence with CDMA/OFDMA Cellular Networks and Extenuation of Interference Using TCM-TH Precoding, Beamforming and Reconfigurable Antenna	Awarded
2.	Dr.P.Dinesh Anton Raja	Anna University, Chennai	Design and Development of Smart Evacuation System using Hybrid Wireless Protocol Interface	Awarded
3.	Ms.T.D.Subha	Anna University, Chennai	Efficiency Enhancement of Tandem Perovskite Solar Cell	Thesis Submitted
4.	Mr.Pitchandi @ Sankaralingam R	Anna University, Chennai	Authenticated Deniable Internet Key Exchange	Confirmation Completed
5.	Ms.Ramya M	Anna University, Chennai	Performance Enhancement of Radio Access Technique for Future Wireless Communication Network	Confirmation Completed
6.	Mr.Surya P	Anna University, Chennai	Design of Low Power And Area Efficient Parallel Pipelined DIF-FFT Radix-2 Architecture	Confirmation Completed
7.	Ms.Sudha L	Anna University, Chennai	Secured Data Storage in Cloud Environment Via Deduplication Technique	Confirmation Completed
8.	Ms.Aruna K B	Anna University, Chennai	Dynamic Secured Remote Data Auditing in Distributed Cloud Environment	Confirmation Completed
9.	Ms.Subatra R	Anna University, Chennai	Design of High Performance Ka band Low Noise Amplifier	Confirmation Completed
10.	Ms.Twinkle Graf F	Anna University, Chennai	Detection of Vulnerabilities and Development of Cross Platform Test Cases in Android App for Shelter site Recommendation	Confirmation Completed
11.	Ms.Usha Rani H	Anna University, Chennai	Optical Packet Switching Using Optical Mems	Confirmation Completed
12.	Ms.Chithra S	Anna University, Chennai	Design of Intelligent Reconfigurable Power Converter For Renewable Power System	Confirmation Completed
13.	Ms.Adlin S	Anna University, Chennai	Multi Spectral Image Processing	Course Work

7. Short term Courses / Seminars /FDP/Workshop/Conference Attended: 63

8. Short term Courses / Seminars /FDP/Workshop/ Conference Organized: 27

9. Online Courses: 9

10. Patents: 5

11. Membership in Professional Societies:

- ISTE (Life Member),
- IEEE (Senior Member)

12. Awards, Recognition & Achievements:

- Best Faculty Award for the Year 2005-2006 (Gold Medal)
- Senior Member IEEE
- Chair – IEEE Photonics Society, Madras Section
- 100% Result Achiever (Several Times)
- Controller of Examinations (SAEC, Chennai)
- TPC & AC Member for number of IEEE Conferences
- Reviewer in Reputed SCI Journals
- R & D Coordinator