

**SUGUMAR D**

Associate Professor, Department of Electronics and Communication Engineering

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Research interest includes **Blind Source Separation** (PCA, ICA & IVA), **AI-ML based Signal Processing** (Audio, Image, Video, Bio-Medical Signals (ECG, EEG) & Bio-Medical Image applications) and, **Wearables, Flexible & Metamaterial based Antennas** for RF and Wireless Communication (GSM, GPS, IoT, 4G, 5G, NFC, RFID, Wi-Fi & SDR based FM) and medical applications. Teaching interest includes Digital Signal Processing, Digital Image Processing, Digital Communication, Wireless & Mobile Communication, Spread Spectrum Systems, MATLAB for Engineers, Python, AI, ML, DL, Multimedia and Compression Techniques, Statistical Digital Signal Processing, Speech and Audio Signal Processing, Microwave Integrated Circuits, Global Positioning Systems, Advanced Radiation Systems, Smart Antennas.

**EXPERIENCE**

Associate Professor, Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, 2021 - present

Assistant Professor (AGP8000), Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, India, 2014- 2021

Assistant Professor (AGP7000), Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, India, 2013- 2014

Assistant Professor (AGP6000), Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, India, 2009 - 2013

Lecturer, Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, 2007- 2008

Lecturer, Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, 2002 - 2005

**EDUCATION**

Degree	Branch / Specialization	University	Class	Mode	Month&Year of Passing
Ph.D.,	Information and Communication Engineering	Anna University	Highly Commended	part Time	December 2019
M.E.,	Communication Systems	Anna University	Distinction	Full Time	March 2007
B.E.,	Electronics and Communication	Bharathiar University	First Class	Full Time	April 2002

**SUMMARY OF INTERNATIONAL JOURNAL& CONFERENCE PUBLICATIONS - [PUBLISHED & ACCEPTED]**

Year	International Journal Publications	International Conference Publications	National Conference publications
2009 - 2021	27	46	5

**RESEARCH GUIDANCE**

Research guidance as supervisor	Completed	Ongoing
Doctor of Philosophy - PhD Thesis advising	-	2
Master of Engineering - Master's Thesis advising	15	1

**PROFESSIONAL MEMBERSHIPS**

1	Life member of ISTE & AMIE
2	Member of IEEE (Signal Processing Society & Antenna & Propagation Society)
3	Member of IAENG, IACSIT, ICSES, SDIWC, IDES, DSC, WSS & InSc

**AWARDS/HONORS,**

1. Young Achiever Award
2. International Innovative dedicated Teaching Faculty & Professional Engineer Award.
3. Innovative Professional Award.
4. Best Teacher Award