



### Dr. JAGAN NATH. D. J.

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### RESEARCH/TEACHING INTERESTS

Pattern Recognition, Bio-inspired Systems, Signal Processing, Artificial Intelligence, Evolutionary Computing, Machine learning, IoT & Cyber Physical Systems, Wireless sensor networks for medical applications, wireless body area networks. A passionate teacher for shaping young minds in par with latest technologies and join hands in research with a motive to help and solve the problems of humanity.

### EXPERIENCE



Assistant Professor, Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, 2008 – till date
Teaching Research Associate, Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, India, 2007 – 2008
Service Engineer, HCL Technologies Limited, Chennai, Tamil Nadu, India, 1999 – 2005

### EDUCATION



<b>Doctorate</b>	Ph.D, Faculty of Engineering, specialization in Signal Processing, Thesis: "Antepartum Noninvasive Foetal Cardiac Signal Elicitation-A Novel Hybrid Tactic Intended For Signal Quality Enhancement", highly commended, Karunya Institute of Technology and Sciences, (Deemed to be University) Coimbatore, 2016.
<b>Masters in Engineering</b>	M.E, Applied Electronics, Karunya Institute of Technology and Sciences, (Deemed to be University), 2008.
<b>Bachelors in Engineering</b>	B.E, Electronics & Communication Engineering, Madras University, 1998.
<b>Pri./Sec. Education</b>	St. Joseph's College, Anglo-Indian Hr. Sec. School, Coonoor, The Nilgiris.

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



Year	International Journal Publications	International Conference Publications	National Conference publications
2008 - 2025	31 163 citations with H index 7	12	-

### PATENTS



1	Device and method for design and development of a medical glove for hand tremor management caused by Parkinson's disease. Application No. .202211035303 A, Publication Date: 05/01/2024
2	Portable sanitizing device for handrails. Application no. 202541076069 A, publication date: 05/09/2025

### RESEARCH PROJECTS



#	Title of the project	Funding Agency	Amount (Rs.)	Year
1	Design and development of a medical glove for hand tremor management caused by Parkinson's disease.	ICMR, Govt. of India	10.09 lakhs	2021- 2022
2	Design and development of a low-cost smart sanitizing device for handrails in public transport to control COVID-19.	ICMR, Govt. of India	10.02 lakhs	2022- 2023

**RESEARCH GUIDANCE**

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

**PROFESSIONAL MEMBERSHIPS**

	1 IAENG - International Association of Engineers. 2 ISTE - Indian Society for Technical Education. 3 ISHNE - The International Society for Holter and Noninvasive Electrocadiology.
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**AWARDS/HONORS**

	1 Achiever award 2020-21 - Karunya Institute of Technology and Sciences 2 Achiever award 2021-22 - Karunya Institute of Technology and Sciences 3 Achiever award 2022-23 - Karunya Institute of Technology and Sciences
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