

**Dr. JAGAN NATH. D. J.**

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 Karunya Institute of Technology and Sciences
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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

Doctorate	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.
Masters in Engineering	M.E, Applied Electronics, Karunya Institute of Technology and Sciences, (Deemed to be University), 2008.
Bachelors in Engineering	B.E, Electronics & Communication Engineering, Madras University, 1998.
Pri./Sec. Education	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	12	-
	163 citations with H index 7		

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 Electrocardiology.

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