Dr. R.CATHERINE JOY
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RESEARCH/TEACHING INTERESTS

My research interests include the detection and analysis of attention deficit hyperactivity disorder (ADHD) using advanced Machine Learning techniques, Medical Signal Processing, and Digital Signal Processing. I am also interested in exploring emerging trends in Digital and Satellite Communication, Microwave and Optical Communication, Linear Integrated Circuits, and Computer Communication. Additional areas of focus include the design and optimization of routing algorithms for Wireless and Mobile Networks.

EXPERIENCE

- Assistant Professor, Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, India, 2013 – present.
- Assistant Professor, Electronics and Communication Engineering, Indus College of Engineering, Alandurai, Coimbatore, India, 2011 to 2013.
- Lecturer, Electronics and Media Technology, Karunya Institute of Technology and Sciences, India, 2008 to 2010.

EDUCATION

Degree	Branch / Specialization	University	Class	Mode	Month &Year of Passing
Ph.D.,	Electronics and Communication Engineering	Karunya University	-	Part Time	July 2023
M.E.,	Applied Electronics	Karunya University	First Class	Full Time	April 2008
B.E.,	Electronics and Communication Engineering	Anna University	First Class	Full Time	April 2006

SUMMARY OF INTERNATIONAL JOURNAL& CONFERENCE PUBLICATIONS – [PUBLISHED & ACCEPTED]

Year	International Journal Publications	International Conference Publications	National Conference publications
2009 - 2025	**10**	**19**	**2**

PATENTS

1	Attention Deficit Hypersensitivity Disorder (ADHD) Detection, Application No. 202041021356, Publication Date: 05.06.2020.

PROFESSIONAL MEMBERSHIPS

1	Member of International Association of Engineers (IAENG)
2	Member of the International Association of Computer Science and Information Technology (IACSIT)