

Dr Annie Julie Joseph

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Computer Science and Engineering Department
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Education

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- 2018–2021 † Ph.D., Computer Science and Engineering, National Institute of Technology Calicut, Kerala
Thesis Title: Enhanced Computer Aided Diagnosis Techniques For Aiding Breast Cancer Detection From Screening Mammograms
Supervisor: Dr Pournami P.N
- 2010–2012 M.Tech., Computer Science and Engineering (Information Security), National Institute of Technology Calicut
- 1998–2002 B.Tech Computer Science and Engineering Mahatma Gandhi University Kottayam

Appointments

- 2022–Till Assistant Professor in CSE, College of Engineering Poonjar
- 2021–2022 Assistant Professor in CSE, College of Engineering Adoor
- 2018–2021 Research Scholar National Institute of Technology Calicut
- 2015–2018 Assistant Professor in CSE, College of Engineering Poonjar
- 2006–2015 Assistant Professor in CSE, Model Engineering College Thrikkakara
- 2005–2006 Senior Software Engineer NeST Computer Systems Technopark Thiruvananthapuram
- 2003–2005 Senior Research Fellow CDAC Vellayambalam, Thiruvananthapuram
- 2002–2003 Lecturer in Computer Engineering Government Poly Technic College Pala, Kottayam

Publications

Journals

- [1] Annie Julie Joseph, Priyansh Dwivedi, Jiffy Joseph, Seenia Francis, Pournami P.N., Jayaraj P.B., Asna V Shamsu, Praveen Sankaran *Prior-guided Generative Adversarial Network for Mammogram Synthesis*, *Biomedical Signal Processing and Control*, Elsevier, Volume 87, Part A, January 2024, 105456 <https://doi.org/10.1016/j.bspc.2023.105456>
- [2] Annie Julie Joseph and Pournami P.N, *Multifractal theory based breast tissue characterization for early detection of breast cancer.*, *International Journal Chaos, Solitons & Fractals*, vol. 152, no. 12, pp. 38-46, November, Elsevier 2021, <https://doi.org/10.1016/j.chaos.2021.111301>.
- [3] Annie Julie Joseph and A. Keerthi Ravi *Rectification of Figures and Photos in Camera -Captured Images of Printed Documents* published in the international journal *ARPN Journal of Engineering and Applied Sciences* Volume10, NO. 17, SEPTEMBER 2015 ISSN 1819-6608
- [4] Aysha Fymin Majeed and Annie Julie Joseph *Magnification of Images with Rough Contours Via Label Maps*, *International Journal of Research in Information Technology*, Volume 2, Issue 4, April 2014, Pg: 398- 404

Conferences

- [1] Annie Julie Joseph, Farah Naz and Pournami P.N, *Enhancement of Screening Mammograms using DTCWT*, *International Conference Computer Vision and Image Processing CVIP 2024*
- [2] Kaur, Gurpreet, Annie Julie Joseph, and P. N. Pournami. "Patch-based All Convolutional Neural Network Model for Classification of Benign and Malignant Mammograms." In 2022 IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES), vol. 1, pp. 448-455. IEEE, 2022.
- [3] Annie Julie Joseph and V.K Govindan *Sketch Based Image Retrieval Using Contourlet Features* in *International Conference on Futuristic Trends of Computer Engineering and Information Technology* held at Tamilnadu, India on January 2012.
- [4] Annie Julie Joseph and V.K Govindan *Edge Histogram for Sketch Based Image Retrieval Using Contourlet Edge Detection* *International Conference on Emerging Trends of Computer and Electrical Engineering* held at Kerala, India on July 2012.10.1145/2664591.2664611

Thesis and dissertations

- [1] . *Enhanced Computer Aided Diagnosis Techniques For Aiding Breast Cancer Detection From Screening Mammograms*(2023). ShudhaGanga Digital library NIT Calicut

Professional Activities

- Reviewer, *Biomedical Signal Processing and Control Elsevier Journal*
- IEEE Membership

- IEEE Student Branch Counsellor
- ISTE Lifetime Membership
- ICFOSS Ambassador
- Student Class Advisor B.Tech S8 and MCA