

**DC Member 2 - 5-year Publication details**  
**Member from Anna University Affiliated College**

Name: - **Dr. G.Rajakumar**  
Designation: - **Professor - COE,**  
Department: - **Department of Electronics and Communication Engineering,**  
Name of the Institution: - **Francis Xavier Engineering College (Autonomous),**  
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Area of Specialization: - **VLSI Design, Digital Image Processing and Networking Protocols**  
List of Publications: -

**Research Publications**

1. Rajakumar G., Ajish, , 'Early Diagnosis of Glaucoma using Multi- Feature Analysis and DBN based Classification', Journal of Ambient Intelligence and Humanized Computing, Springer Journals, <https://doi.org/10.1007/s12652-020-01771-z> , Feb 2020. IF:1.91(Anna University Listed Annexure- I Journal). (Scopus Index)
2. Rajakumar G., Dr. T.Ananth Kumar, Dr. T.S.Arun Samuel, Dr.E.MuthuKumaran 'Analysis of breast cancer using gray level co-occurrence Matrix and random forest classifier' International Journal of Biomedical Engineering and Technology (IJBET) • Inderscience Publishers(Anna University Listed Annexure- I Journal). (Scopus Index)
3. S. Shargunam, R. Mallika@Pandeewari, M. Esakkiraj, S. Sriram, Dr. G. Rajakumar, 'Intimation of nearby Tourism Places to the unknown person using Neural Network Trained Global Collaborative Feature Extraction, International Journal of Research in Advanced Technology (IJORAT), (ISSN ONLINE – 2456-2769), Vol. 5, Issue 1, February 2020.
4. S. Shargunam, R. Mallika@Pandeewari, M. Esakkiraj, S. Sriram, Dr. G. Rajakumar, 'Enhanced Multimodel Hierarchical Matching Algorithm based Identification of the Humans', International Journal of Research in Advanced

Technology (IJORAT), (ISSN ONLINE – 2456-2769), Vol. 5, Issue 1, February 2020.

5. Rajakumar G., Dr. T.Ananth Kumar, Dr. T.S. Arun Samuel, Dr. E.MuthuKumaran  
'IoT based Milk Monitoring System for Detection of Milk Adulteration'  
International Journal of Pure and Applied Mathematics, ISSN: 1311-8080  
,Volume 118 No. 9 ,pp 21-32, 2018(Scopus Index)
6. Rajakumar G., M.Saroja Sankari, D.Shunmugapriya and S.P.Uma Maheswari.,  
'IOT Based Smart Agricultural Monitoring System', ISSN: 2456-883X Asian  
Journal of Applied Science and Technology (AJAST) Volume 2, Issue 2, Pages  
474-480, April 2018. IF: 1.805.
7. Rajakumar G., Andrew Roobert A., 'Design of Low Power VLSI Architecture of  
Line Coding Schemes'in Wireless Personal Communications, ISSN: 1573-1979  
(electronic version). ISSN: 1572-834X.Volume 99, pp1455–1473, January 2018.  
IF: 0.951. Springer Journals (Anna University Listed Annexure- IJournal).(Scopus  
Index).
8. Rajakumar G., Andrew Roobert A., 'Low Power VLSI Architecture Design of  
BMC, BPSC and PC Schemes' in Analog Integrated Circuits and Signal  
Processing, October 2017, Volume 93, Issue 1, pp 169–178, ISSN: 1573-1979  
(electronic version).July 2017. IF: 0.623. Springer Journals (Anna University  
Listed Annexure- IJournal).(Scopus Index)
9. Rajakumar G., Andrew Roobert A., 'Low Power VLSI Schematic Design of  
PC/BPSC Generation and Degeneration' in Asian Journal of Research in Social  
Science and Humanitics, Vol. 7, No. 2, February 2017, PageNo. 160-164,  
ISSN1682- 3915.(Scopus Index)
10. Rajakumar G, Princy.E 'Globally Synchronous and Asynchronous Router for  
Dynamic Virtual Channel NoC System' International Journal of Advanced  
Research in Management, Architecture, Technology and Engineering  
(IJARMATE), Vol. 2, Issue: 12, December 2016, ISSN Number: 2454-9762  
(Online).
11. Rajakumar G, 'TCP VEGAS Performance in Wireless ADHOC Networks'  
International Journal of Advanced Research Trends in Engineering and  
Technology (IJARTET) Vol. 3, Special Issue: 3, April 2016, ISSN Number: 2394-  
3785(Online).(Scopus Index)
12. RajakumarG,AndrewRoobertA.,'AreaandPowerOptimizedHardwareDesignofBi-

Phase Space Coding Technique / Phase Coding Technique for Wireless SensorApplications' in Asian Journal of Information Technology, 15(19); Page No.3657- 3663, 2016, ISSN 1682-3915.(Scopus Index)

13. G. Rajakumar, S.Karthigai lakshmi, 'Design and Analysis of Sequential Circuits Using Nanotechnology Based Quantum Dot Cellular Automata', Journal of Nanoelectronics and Optoelectronics, Volume 10, Number 5, pp. 601-610, October 2015, ISSN: 1555-130X (Print), (Anna University Listed Annexure- I Journal).(Scopus Index)
14. G.Rajakumar, N.Ebenesarjebadurai,' Design of TRFF based on Merging Method for Memory Circuits', International Journal of Applied Engineering Research, Vol. 10, No.14, Page No.11928- 11933, April 2015, ISSN 0973-4562.(Scopus Index)
15. G.Rajakumar, S. Jeslin,' Ultra Low Power Design Using Average 8T Differential Sensing Sub-Threshold SRAM', International Journal of Applied Engineering Research, Vol. 10, No.4 , Page No.11353- 11359, April 2015, ISSN0973-4562.(Scopus Index)

#### **BOOKS PUBLISHED:**

1. Published Book titled "Security in MANET an Overview" Revised Edison, Scholars Press Publishers, on June 2020. (International Book Publication)
2. Published Book titled "An Introduction to VLSI Based Food Adulteration Identification System " Revised Edison, LAP Lambert Academic Publishers, Germany on November 2018.(ISBN:978-613-9-94980-9) (International Book Publication)
3. Published Book titled "A Cook Book of Medical Electronics: A Students Handbook" Revised Edison, LAP Lambert Academic Publishers, Germany on March 2018.(ISBN:978-613-7-71382-2) (International Book Publication)
4. Published Book titled "Cybercrime Prevention in Social Networks by URL Detection - Cyber Law: Prevention: Malware and Phishing" Revised Edison, LAP Lambert Academic Publishers, Germany on June 2017.(ISBN:978-3-330-32695-8) (International Book Publication)
5. Published Book titled "Wireless Communications" Revised Edison, ECE Publishers on April2015.
6. Published Book titled "Medical Electronics" Revised Edison, ECE Publishers on April2014.

**PATENT PUBLISHED DETAILS: (INTELLECTUAL PROPERTY RIGHTS)**

**1. Title: A Smart Colour Writing Tool for Interactive Boards**

Application No.201741013344A

Date of filing of Application: 3/04/2017

Publication Date: 21/04/2017

**2. Title: Crop Disease Detection and Monitoring System**

Application No. 201941015722 A

Date of filing of Application:

9/04/2019 Publication Date:

26/04/2019

**3. Title: Flat Surface Painting Machine**

Application No.201941013816 A

Date of filing of Application: 5/04.2019

Publication Date: 10/05/2019