Name   : **Dr. B.M. Rajesh**

Designation   : Associate Professor

Department   : Information Technology

Qualification : M.Sc., MBA, DIM, PGDCA, M.Phil., Ph.D.

Experience   : Teaching - 18 Years 2 Months | Research - 12 Years

Area of Specialization : Networks & Data Structures

Email ID   : rajesh@drngpasc.ac.in

Academic Qualifications

Degree	Branch	Institution/University Name	Year
Ph.D.	Computer Science	Bharathiar University, Coimbatore	2024
M.Phil.	Computer Science	Bharathiar University, Coimbatore	2014
M.Sc.	Computer Technology	Coimbatore Institute of Technology, Coimbatore	2006
MBA	Systems	Periyar University, Salem	2009
B.Sc.	Computer Science	Govt. Arts College, Coimbatore	2004

Additional Qualifications

Dip. / Cert.	Area of Specialization	Institution / University	Year
Certificate	Computer Systems	NPTEL	2021
Certificate	Cloud Computing	NPTEL	2020
Diploma	Marketing	AFJA	2005
PG Diploma	Computer Applications	NCIT	2004

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
M. Phil.	3	-

Research Publications

1) Dr. B.M. Rajesh et al., **A COVID-19 Monitoring System Based on IOT and Utilizing a Hybrid Deep Learning Model,** Adalya Journal, Volume 13, Issue 6, June 2024, ISSN : 1301-2746, DOI : 10.37896/aj13.6/001

2) Dr. B.M. Rajesh, **Improved Social Spider Optimization (ISSO) Based Cluster Head Selection And Fault Detection Using Convolutional Neural Network (FDCNN) in Wireless Sensor Network (WSN)**, Adalya Journal, Volume 13, Issue 5, May 2024, ISSN : 1301-2746, DOI : 10.37896/aj13.5/015

3) B.M. Rajesh et.al , **User Engagement in Mobile Applications: Modeling and Predicting,** Journal of Mobile Computing, Communications & Mobile Networks, Volume 10, Issue 3, January 11, 2024, ISSN: 2349-901 , DOI (Journal): 10.37591/ JoMCCMN

4) B.M. Rajesh et.al , **Safeguarding Data and Networks from Cyber attacks with Advanced Technology and User Awareness**, Journal of Network Security, Volume 11, Issue 3, January 05, 2024, ISSN: 2395-6739 (Online) ISSN: 2321-8517 (Print), DOI (Journal): 10.37591/ JoNS

5) B.M. Rajesh, **The Future of Cloud Computing and its Potential Impact on Business, Recent Trends in Parallel Computing**, Volume 10, Issue 3, December 2023, ISSN: 2393-8749, DOI (Journal): 10.37591/RTPC

6) B.M. Rajesh et.al , **Objectives of Chandrayaan 1, Chandrayaan 2 and Successful Landing of Chandrayaan 3 on Lunar Surface, Research & Reviews: Journal of Space Science & Technology,** Volume 12, Issue 2, 2023, ISSN: 2321-2837 (Online) ISSN: 2321-6506 (Print), DOI (Journal): 10.37591/ RRJoSST

7) B.M. Rajesh ,**Shell Scripting with Shell Programming in Unix System Software and Graphical User Interfaces,** Journal of Advances in Shell Programming, Volume 10, Issue 2, 2023, ISSN: 2395-6690, DOI (Journal): 10.37591/ JoAS

8) B.M. Rajesh et.al, **Overview of Database Management Systems: Components, Abstraction, and Applications,** Journal of Advanced Database Management & Systems Volume 10, Issue 3, 2023, ISSN: 2393-8730, DOI (Journal): 10.37591/ JoADM

9) B.M. Rajesh et.al, **An Integrated Platform for Remote and Collaborative Augmented Reality and Virtual Reality of Artificial Intelligence Using AI Tools**, Journal of Advancements in Robotics, Volume 10, Issue 2, 2023, November 28, 2023, ISSN: 2455-1872, DOI (Journal): 10.37591/ JoARB

10) B.M. Rajesh et.al, **The Role of Advanced Wireless Technologies in the Evolution of 5G and Beyond,** Journal of Communication Engineering & Systems, Volume 13, Issue 2, 2023,October 31, 2023, ISSN: 2249-8613 (Online) ISSN: 2321-5151 (Print), DOI (Journal): 10.37591/ JoCES

11) B.M. Rajesh et.al, **Forthcoming Technological Breakthroughs in the Metaverse Development** Journal of Web Engineering & Technology DOI (Journal): 10.37591/ JoWET Volume 10, Issue 2, 2023, October 23, 2023, ISSN: 2455-1880

12) B.M. Rajesh, **Data Science: Domains, Process, Roles and Responsibilities, Journal of Advanced Database Management & Systems,** Volume 10, Issue 2, 2023, ISSN: 2393-8730, DOI (Journal): 10.37591/JoADMS

13) B.M. Rajesh et.al, **Transforming-learning-experience-and-leveraging-AI-for-education**, Journal of Intellectual Property Rights and Law, September 2, 2023, ISSN: 2182- 0742 DOI (Journal): 10.37591/ JIPRL

14) B.M. Rajesh et.al, **A Comparison of NoSQL and Relational Database Management Systems (RDBMS),** International Journal of Data Structure Studies, Volume 1, Issue 1, 2023, August 23, 2023, DOI (Journal): 10.37591/ IJDSS

15) B.M. Rajesh, **The Past, Present, and Future of Power Conversion Technologies for Computer, Networking, and Telecom Power Systems**, International Journal of Information Security Engineering, Volume 1, Issue 1, 2023, ISSN : 2324-6306, DOI (Journal): 10.37591.

16) B.M. Rajesh[1] ,Antony Selvadoss Thanamani[2], **Adaptive weight butterfly optimization algorithm (AWBOA) based cluster Head selection (CHS) and optimized energy efficient cluster based scheduling (OEECS) approach in wireless sensor networks (WSN),** International Journal of Systems Assurance Engineering and Management (IJSA).

17) B.M. Rajesh[1] ,Antony Selvadoss Thanamani[2] , **Unix, Shell Scripting, and Shell Programming Concepts and Paradigm,** Journal of Advances in Shell Programming, Volume 8,Issue 2,2022, January, 2022 ISSN: 2395-6690 DOI (Journal): 10.37591/ JoASP

18) B.M. Rajesh[1] ,Antony Selvadoss Thanamani[2] , **Bug Tracking Tools- Analysis on System Assurance and Testing** Journal of Open Source Developments. Volume 8,Issue 2, January, 2022 ISSN: 2395-6704 DOI (Journal): 10.37591/ JoOSD

19) B.M. Rajesh[1] ,Antony Selvadoss Thanamani[2] , **Bug Tracking System on Software Development with Operating Systems,** Journal of Open Source Developments Volume 8, Issue 3, 2021 Page No.-1-9, January, 2021,ISSN: 2395-6704,DOI (Journal): 10.37591/ JoOSD

20) B.M. Rajesh[1] ,Antony Selvadoss Thanamani[2] , **For Analyzing Fraud in Credit Cards, Fuzzy Particle Swarm Optimization (FPSO) with Enhanced Support Vector Machine (ESVM) Classifier,** Volume 7,Issue 2, 2021Page No. 1-12,November, 2021, ISSN: 2456-2351 DOI (Journal): 10.37628/ IJSCT

21) B.M. Rajesh[1] ,Antony Selvadoss Thanamani[2] , **RSA Based Secret Key Generation And Authorization Method in Cloud Based VANETS,** ICTACT, Journal On Communication Technology, Volume: 12, Issue: 02, Page No : 2453 -2458,November,,2021,ISSN: 2229-6948,DOI: 10.21917/ ijct.2021.0362

22) B.M. Rajesh[1, Antony] Selvadoss Thanamani[2,] **An Improved Genetic Algorithm with a Min-Min Approach for Effective Task Scheduling in Cloud Computing,** International Journal of Algorithms Design and Analysis, Volume 7, Issue 2, 2021, Page No. -06- 12, December, 2021, ISSN: 2456-2351,DOI (Journal): 10.37591/ IJADA

23) B.M. Rajesh[1] ,Antony Selvadoss Thanamani[2] , **Linux Operating System Performance Evaluation and States, Journal of Advances in Shell Programming**, Volume 8,Issue 2, 2021Page No. 1- 9, December, 2021, ISSN: 2395-6690, DOI (Journal): 10.37591/ JoASP

24) B.M. Rajesh[1,] Antony Selvadoss Thanamani[2,] **Fuzzy Based Clustering Algorithm Rebroadcast with Ant Colony Based Cluster Head Selection for Minimizing the Routing Overhead in Mobile Ad-Hoc Networks,** Journal of Mobile Computing, Communications & Mobile Networks, Volume 8,Issue 2, 2021,Page no. : 1-16 December, 2021,ISSN: 2349-901X,DOI (Journal): 10.37591/ JoMCCMN

25) B.M. Rajesh[1] ,Antony Selvadoss Thanamani[2] , **A Wireless Sensor Network Intrusion Detection System with Parameters and Distributed Trust**, International Journal of Wireless Network Security ,Volume 7,,Issue 2, 2021,Page No 16-27,December, 2021, ISSN: 2456-2351,DOI (Journal): 10.37591/ IJWNS

26) B.M. Rajesh[1] , Antony Selvadoss Thanamani[2] , **An Energy Efficient Cluster Head Selection With Optimal Path Selection Approach In Wireless Sensor Networks,** ICTACT,,Journal On Communication Technology,Volume: 11, Issue: 04,Page No. 2203-2209, December, 2020, ISSN: 2229-6948,DOI: 10.21917/ ijct.2020.03xx

27) B.M. Rajesh[1] ,Antony Selvadoss Thanamani[2] , **Hybrid Form of Cuckoo Search Algorithm With Hill Climbing Algorithm Based Optimization of Lifetime, Energy and Also Detection of Sybil Attack In WSN,** Mukt Shabd Journal,Volume IX,,Issue VIII,Page No : 2105-2116,August, 2020,ISSN : 2347-3150

28) B.M. Rajesh[1] , Antony Selvadoss Thanamani[2] , **Multinomial classification Identification for Domestic Violence Virtual Posts Based on Improved Convolution Neural Network (ICNN),** Journal of Network Security ,Issue 3,Page No : 1-10,October, 2020, ISSN: 2395-6739

29) B.M. Rajesh[1], Antony Selvadoss Thanamani[2], **Enhanced Artificial Neural Network with Particle Swarm Optimization Algorithm for Detecting Distributed Denial of Service in Cloud,** International Journal of Algorithms Design and Analysis, Vol. 6: Issue 2, Page No. 1-9, October, 2020, ISSN: 2456-2351, DOI: 10.37591/ IJADA

Publications in Conference and Proceedings

- B.M. Rajesh[1], Antony Selvadoss Thanamani[2], Conjugate Gradient Based Solution for Joint Power Control and Scheduling Program Proceedings on Second International Conference on Research Trends in Computing Technology (ICRTCT), Nov 2021, Proceedings

- B.M. Rajesh[1], Antony Selvadoss Thanamani[2], PDTB-IDS: A Parameter and Distributed Trust Based Intrusion Detection, System for Wireless Sensor Network, International Conference on Emerging Trends in Science and Technology (ETIST-2021)", Oct 2021, Conference.

- B.M. Rajesh[1], Antony Selvadoss Thanamani[2], Particle Swarm Optimized Link for Disjoint Multipath Routing in Network Traffic, Mobile Ad-hoc Networks, International Conference on Emerging Trends in Science and Technology (ETIST-2021)", Oct 2021, Conference.

- B.M. Rajesh[1], Antony Selvadoss Thanamani[2], Fuzzy particle swarm optimization and enhanced support vector, Machine, International Conference on Emerging Trends in Science and Technology (ETIST-2021), Oct 2021, Conference.

- B.M. Rajesh[1], Antony Selvadoss Thanamani[2], A Framework and Disseminate Trust Based Detection System for Wireless, Sensor Network International Conference on Emerging Trends in Science and Technology ETIST-2021), Oct 2021, Conference

- B.M. Rajesh,Fuzzy Particle Swarm Optimization (FPSO) and Improved Support Vector Machine (ESVM) Classifier For Credit Card Fraud Recognition, Conference ,Aug 2021, **Best Paper Awarded.**

- B.M. Rajesh[1], Antony Selvadoss Thanamani[2], Fuzzy Particle Swarm Optimization (FPSO) and Improved Support Vector Machine (ESVM) Classifier for Credit Card Fraud Recognition, International Conference on Computing and Intelligent System (ICCIS-2021) Aug 2021, Conference.

- B.M. Rajesh[1], Antony Selvadoss Thanamani[2], Hybrid Form of Cuckoo Search Algorithm with Hill Climbing Algorithm based Optimization of Lifetime, Energy and also Detection of Sybil Attack in WSN Proceedings of the 2nd International Multidisciplinary Conference on Information Science, Management Research and Social Sciences, (ICISMRSS – 2021), March 2021, Proceedings

Patent Rights

- B.M. Rajesh, Sensor Based Hand Recognition System for Assisting People with Hearing Impartment IPR, The Patent Office Journal No. 16/2022, Pg. 24858, 22-Apr-22.

Participation in Workshop/Seminar

- Two Days International Workshop on IoRT, NGM College, Pollachi, 02-Aug-21.
- State Level Workshop on Higher Education, CBM College, Coimbatore on2-Nov-19.
- International Seminar on Technology Transfer, Pollachi College of Arts and Science, Pollachi, 12-Dec-19.

Participation in Faculty Development Programme

- Research Methodology and Pedagogy for Tertiary Education, Dr. N.G.P. Arts and Science College, 15 to 21-Jun-21.
- Emerging Research Trends in CS and Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 22-Mar-21 to 26-Mar-21.
- Quality initiatives in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 13-Apr-20 to 20-Apr-20.
- PHP and MySQL, Dr. N.G.P. Arts and Science College, Coimbatore, 01 to 06-Feb-20.

Conference/Seminar/Workshop Organized

- Convenor, Technomanzer - National Level Intercollegiate Technical Meet, AY 2017, 2018, and 2019.

Editorial/Review Board Member

- Reviewer – Scopus Journal
- Reviewer – International Journal of Manuscript Computer society
- Member - International Computer Science and Engineering Society (ICSES)
- Reviewer - Editorial Board Environmental Technology
- Reviewer - Journal of Ambient Intelligence and Humanized Computing.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
International Computer Science and Engineering Society	Member	Life Time

Awards / Honors

Awards/Honors	Agency/Institute	Year of Award
Best Faculty Award	CWA	2017, 2018, 2019
Wipro Certified Faculty	WIPRO	2020