



## Dr Balamurugan M

E-mail: [tecbalamurugan@gmail.com](mailto:tecbalamurugan@gmail.com)

Profile URL :

<https://vidwan.inflibnet.ac.in/profile/290434>

Orcid Id: 0000-0001-5966-0669

Phone: 8870104173, 9655741471

Address: Bengaluru ,Karnataka,India - 560077

## Expertise

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### Computer Science Artificial Intelligence

Deep Learning, Machine Learning, Internet of Things, Data Mining.

## Work experience

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1. Acharya Institute of Graduate Studies 2024 — Present

Associate Professor  
Benagluru

2. Kristu Jayanti College 2022 — 2023

Assistant Professor  
Bangalore

3. Immaculate college for  
Women,Viriyur,devapandelam,Post,SankarapuramTaluk-606 402  
2014 — 2022

Assistant Professor  
Villupuram

4. Shanmuga Industries arts &SCience; college,(Co-Ed),Manalurpet  
road,604 401 2009 — 2011

Lecturer  
Tiruvannamalai

## Education

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1. Ph.D - 2022

Tamil Nadu Open University, Chennai

2. MCA - 2007

Thangavelu Engineering College, Chennai - 97

3. B.Sc., Computer Science - 2004

St. Joseph's arts & Science College

4. HSc - 2000

Adaikala Annai Higher Secondary School

5. SSLC - 1998

Govt. Higher Secondary School

## Honours and Awards

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1. National Academic Excellence Award - 2024

International Institute of Organizational Research

2. Journal Reviewer - 2024

Journal of Emerging Technology and Innovative Research

3. Super Hero for Children - 2023

Bal Raksha Bharat (Save the Children)

## Membership In Professional Bodies

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1. Internet Society, 2022

Annual Member

2. International Association of Engineering, 2020  
Life Member
3. Computer Science Teachers Association, 2020  
Annual Member

## Membership In Committees

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1. Institution Innovative Council - Tamil Nadu Open University, 2019  
Member

## Patent

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1. Machine Learning-Based Nutrition Monitoring and Health Awareness System Based on Crowd-Sourced Food Images  
Inventor(s): Dr. Belsam Jeba Ananth. M, Assignee: Dr. BELSAM JEBA ANANTH.M  
Published: 2023-08-18

## Publication

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1. Revolutionizing Magnetic Resonance Imaging Image Reconstruction: A Unified Approach Integrating Deep Residual Networks and Generative Adversarial Networks  
M Nagalakshmi ., M. Balamurugan ., B. Hemantha Kumar ., Lakshmana Phaneendra Maguluri ., Abdul Rahman Mohammed ALAnsari ., Yousef A.Baker El-Ebiary .,  
International Journal of Advanced Computer Science and Applications, Volume 15, Year 2024, Pages 420-433
2. Soil Aggregate Stability Prediction Using a Hybrid Machine Learning Algorithm  
Balamurugan M  
Metaheuristics for Machine Learning algorithms and applications, Volume 1, Year 2024, Pages 607-629
3. Comparative Analysis of Deep learning models for Flood forecasting: Case study of Conv-GRU and STA-GRU  
Rachamalla Hareesh Kumar Reddy, Dr. Balamurugan M

4. **Traffic Crash Detection and Prediction in Intelligent Transport system using optimal hybrid deep learning Algorithms**  
M. Balamurugan., R. Kalaifarasi., S. Stephen., G. Prathap  
Indian Journal of Natural Sciences, Volume 13, Year 2023, Pages 53561-53569
5. **Development of a Grey Wolf Optimized-Gradient Boosted Decision Tree Metamodel for Heart Disease Prediction**  
Narayanan Ganesh<sup>1</sup> , M. Balamurugan<sup>2</sup> , Jasgurpreet Singh Chohan<sup>3</sup> , Kanak Kalita<sup>4,\*</sup>  
International Journal of Intelligent Systems and Applications in Engineering, Volume 12, Year 2023, Pages 515 - 522
6. **A Study analysis to Develop the Data Security in Internet of Things**  
Dr. M. Balamurugan  
Proceedings for the International Conference on Computing, Communication and Information Technologydical Systems, Volume , Year 2023, Pages 432-435
7. **Principles of Artificial Neural Network**  
Dr. S. Anantha Sivaprakasam, Dr. A. Gopikannan, Dr. S. Radhika, Dr. M. Balamurugan  
Principles of Artificial Neural Network, Volume 1, Year 2023, Pages 280
8. **A COMPREHENSIVE STUDY ON DETECTING AND RECOGNIZING EMOTIONS BY FACIAL EXPRESSIONS USING MACHINE LEARNING TECHNIQUES**  
Dr. Balamurugan M, Dr. Gopinath D, Dr. Naveeth Babu C, Dr. V. S. Prakash  
Journal of Data Acquisition and Processing, Volume 38, Year 2023, Pages 1662-1668
9. **Selection of Routing Protocol-Based QoS Improvement for Mobile Ad Hoc Network**  
V. Vinoth Kumar ., R. Deepa ., D. Ranjith ., M. Balamurugan ., J. M. Balajee .,  
EAI/Springer Innovations in Communication and Computing, Volume , Year 2022, Pages 317-330
10. **Regularized Densely Connected Convolutional Network for effective real-time distracted driver detection**  
M Balamurugan., R. Kalaifarasi.,  
Journal of Computational and Theoretical Nanoscience , Volume 18, Year 2021, Pages 502-508
11. **Dimensionally improved residual neural network to detect driver distraction in real time**  
Balamurugan M.;Kalaifarasi R.  
Journal of Physics: Conference Series, Volume 1964, Year 2021
12. **A Study on Densely Connected Convolutional Neural Network for Object Detection**  
M Balamurugan., R Kalaifarasi.,  
3rd National Conference on Advanced Computing (NCAC-2020), Volume , Year 2020, Pages 99-108
13. **Fault Detection and Prediction in Electricity line using Deep learning**

M Balamurugan., A George Arockiaraj.,  
Purakala, Volume 31, Year 2020, Pages 184-192

14. **Smart Technology for Healthcare side using Internet of Things**

M Balamurugan., R Kalaiarasi., A Arockia Marshal Roach  
4th National Conference on Recent Innovations in Engineering, Technology, Management and  
Applications – RIETMA'18 , Volume , Year 2018, Pages 606-609

15. **A Study of Wi-Fi Access Data Security In Internet Of Things**

M Balamurugan., R Kalaiarasi.,  
International Journal of Engineering and Techniques, Volume , Year 2018, Pages

16. **Data mining for Internet of Things**

M Balamurugan., R Kalaiarasi.,  
State level Conference on Latest Trends in Computing Technologies (InnovIT - 2017), Volume , Year  
2017, Pages 231-238

17. **Transforming Patient Diseases Data Using Security Access Devices**

M Balamurugan., R Kalaiarasi.,  
International Journal of Engineering and Techniques, Volume 3, Year 2017, Pages 7-12