

Dr. V. GOKULA KRISHNAN Plot No 27, Venkateswara College Road, Annai Nagar, Tirupachur, Tiruvallur – 631 203, Tamilnadu, India. E-mail: gokul_kris143@yahoo.com Phone: 9894751429	ORCID ID: 0009-0005-6819-6729 Scopus ID: 57200984377 (H-Index: 8) Google Scholar ID: k4rqO9oAAAAJ Researcher ID: G-2388-2014 LinkedIn: https://www.linkedin.com/in/dr-v-gokula-krishnan-professor/	
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Objective:

Intend to build a career with leading educational institutions of hi-tech environment with committed & dedicated people, which will help me to explore myself fully and realize my potential. Willing to work as a key player in creating and delivering competent engineers.

Software Exposure:

Software Languages	:	C, Python, C++ and JAVA Programming
Operating System	:	MS-Dos, Windows and UNIX
Package	:	MS-Office
Web technologies	:	HTML
Front-end	:	Visual Studio
Database	:	SQL

Educational Qualification: B.E, M.Tech, Ph.D

Degree	Specialization	Name of the College & University	% of Marks	Class Obtained	Year of Passing
Ph.D.	Computer Science Engineering	Sathyabama Institute of Science and Technology	-	-	2020
M.Tech	Computer Science Engineering	Dr. MGR Educational & Research Institute	86.3	First Class with Distinction	2009
B.E	Computer Science Engineering	Sri Venkateswara College of Engineering & Technology (Anna University)	82.3	First Class with Distinction	2006
HSC / +2	Computer Science	Sri Venkateswara Matriculation Higher Secondary School / State Board	89.67	First Class	2002
SSLC / 10th	-	Sri Venkateswara Matriculation Higher Secondary School / State Board	76.45	First Class	2000

Other Qualifications:

- **MBA (HRM) (Distance Mode)** – Indian School of Business Management and Administration.
- **PGDEAS** – Post Graduate Diploma in Educational Administration and Supervision.
- **Cleared SET Exam – State Level Eligibility Test for Teachers / Lecturers** conducted by Tamil Nadu Government.

Professional Memberships:

- **MISTE** – Life member of Indian Society for Technical Education.
- **MIEEE** – Member of Institute of Electrical and Electronics Engineers.
- **MCSI** – Member of Computer Society of India
- **MIAENG** – Member of International Association of Engineers

Work Experience:**18.4 Years**

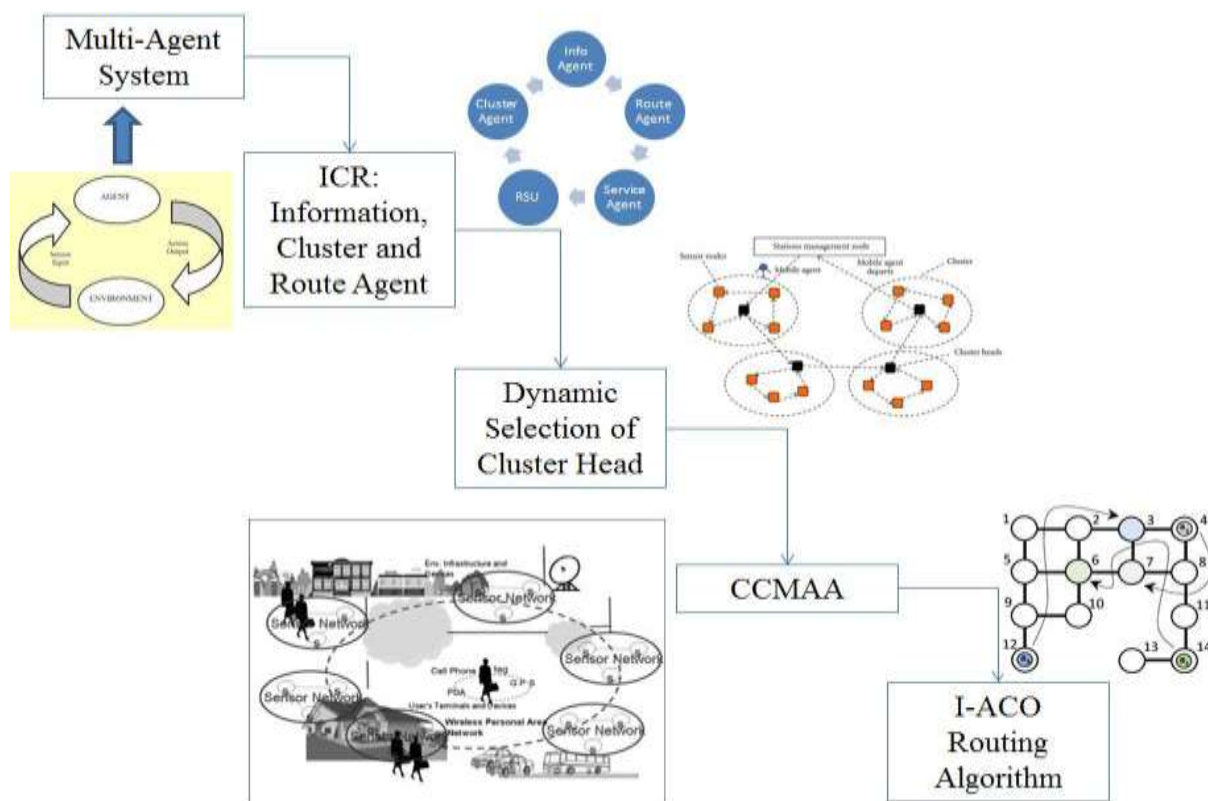
Designation	Name of the College / Institutions	Work Period		Total Experience	
		From	To	Years	Months
Professor	Easwari Engineering College	05.05.2025	Till Date	0	0
Professor	Saveetha School of Engineering	14.06.2022	30.04.2025	2	10
Associate Professor	CVR College of Engineering	10.03.2021	28.04.2022	1	2
Associate Professor	Panimalar Institute of Technology	01.06.2016	27.02.2021	4	9
Assistant Professor	Panimalar Institute of Technology	28.05.2012	31.05.2016	4	0
Assistant Professor	S A Engineering College	10.08.2011	27.04.2012	0	8
Assistant Professor	B K R College of Engineering and Technology	25.10.2010	04.08.2011	0	9
Senior Lecturer	B K R College of Engineering and Technology	07.10.2009	24.10.2010	1	0
Senior Lecturer	Sri Venkateswara Institute of Science & Technology	21.06.2006	29.08.2009	3	2
Total Experience				18	4

PhD Research Work:

Title: Efficient Decentralized Routing using Multi-Agent Systems in VANETS

Description:

Vehicular AdHOC Network (VANET) is a kind of advanced MANET specially designed for vehicular communication. VANETs have the possibility to integrate with Wi-Fi, Bluetooth and other connectivity protocols which make it a new standard. Traffic congestion is based on a condition of road networks that may cause slow speed the vehicle move, longer trip timing changes, and vehicle queue length increase. Accurate predictions need for accurate status information about vehicles - the thing is that the distributed form of vehicles for massive road infrastructure that creates mostly challenging one. By using real time traffic information the advanced vehicle guidance systems can be done but unfortunately can only react with the presence of traffic. Since vehicular communication is a part of constantly changing environment and it must also operate in urban and rural areas. This research work introduces a multi-agent system approach to solve the problems faced by vehicular communications since it comprises of more than one agent solve the problem of routing, the resulting protocol gives higher efficiency and better performance. In this system a novel approach is proposed for choosing the Cluster Head (CH). The CH selection algorithm is done in three levels, first level normal CH selection, and second level is cluster leaving and finally clusters merging. After choosing the CH, the routing path to be established based on the link quality which is measured using the link life time. Routing in dynamic environment is difficult therefore Multi agent based cooperative routing in dynamic vehicular technology is proposed. The objective of this work is to determine effective routing by utilizing the information provided by the intelligent multi agent systems. A Co-operative Cluster based Multi-Agent Approach (CCMAA) for intelligent routing protocol is proposed for better results since implementing traffic forecasting and efficient routing in dynamically changing environment is a challenging task. The resulting protocol gives higher efficiency and better performance on packet delivery rate, end-to-end delay and throughput. The results are promising and proved to outperform the simulation tool in terms of network lifetime, energy-efficient routing and packet delivery ratio.



Theory Subjects / Courses Handled:

1. Data Structures.
2. Computer Architecture
3. Programming in C
4. Object Oriented Programming
5. Fundamentals of Computing
6. Software Engineering
7. Software Testing
8. Computer Networks
9. Grid & Cloud Computing
10. Database Management Systems
11. Operating Systems
12. Network Programming & Management, etc.

Laboratory / Practical Classes Handled:

1. Computer Practice Lab I & II
2. Data Structures Lab
3. Computer Networks Lab
4. Python Programming Lab
5. Case Tools Lab,
6. Object Oriented Programming Lab,
7. Mini-Project Lab,
8. Final Year Main-Project, etc.

Projects Guided:

- Dynamic multi-cloud collaboration resource sharing in cloud-based services
- Prevention of Surreptitious Denial of Service in Cloud Computing
- Deterministic Random Grid Visual Cryptography for Secret Sharing
- Collaborative Filtering by user Turn Clustering based on TYCO
- Statistical Steganalysis for content Adaptive Steganography
- Disease Predictive, Best Drug: Big Data Implementation of Drug Query with Disease Prediction, Side Effects and Feedback Analysis
- Safe Range –Danger Zone Alert System in Trizonal Area for Fisherman Safety Using RSSI
- Site Locating and in-Site Exploring Smart Crawlers for Deep Web Interfaces
- Mona : Secure Multi -Owner Data Sharing For Dynamic Groups in the Cloud
- Distribution and Duplication of Records in Darken for Optimal Performance and Safety
- Survey on Integration of Multi-Cloud Deployment with Multi Bank & User Smart Card
- Credit Card Fraud Detection using Random Forest Algorithm
- Prevention of Man in the Middle Attack using Token Generation
- Prevention of Food Wastage using Mobile Application
- Face Detection based ATM Safety System in IOT using Secure Transaction

Events Attended:

Sl. No	Events	Count
1	NPTEL Courses	3
2	FDP	42
3	Workshops	64
4	Seminars	18
5	Webinars	78
6	Reviewer for Journals	24

List of Journal / Conference Publications & Research Works:

Sl. No	Journal / Conferences		Count
1	SCI Indexed Journals		8
2	Web of Science Indexed Journals		1
3	Scopus Indexed	Journals	42
		IEEE-Xplore	31
		Springer Lecture Notes / Book Series	3
		Book Chapter	2
		Total	81
4	UGC / Other Journals		13
5	International Conference		3
6	National Conference		4
7	Book's Published		1
8	Patent's Published		35
9	Copyright's Received		2
10	Consultancy Projects		3
11	Award's Received		6

SCI-Indexed Journals:

1. Published a Research Article titled “Analyze traffic forecast for decentralized multi agent system using IACO routing algorithm” in **Journal of Ambient Intelligence and Humanized Computing**, 1868-5137 (Print) 1868-5145 (Online), <https://doi.org/10.1007/s12652-018-0981-2>, August 2018.
2. Published a Research Paper titled "Multitemporal Change Detection and Irregular Land Shape Area Measurement from Multispectral Sensor Images through BSO Algorithm" in **Mathematical Problems in Engineering**, ISSN: 1024-123X (print), Vol. 2022, Article ID 3090074, 11 pages, 2022, <https://doi.org/10.1155/2022/3090074>.
3. Published a Research Paper titled “Performance Analysis of Two Loop Interleaved Boost Converter Fed PMDC-Motor System using FLC” in **Mathematical Problems in Engineering**,

ISSN: 1024-123X (Print), 2022, <https://doi.org/10.1155/2022/1639262>.

4. Published a Paper Titled “Examination of User Pairing NOMA Systems Considering the f Scheme over Time-Varying Fading Channel Conditions” in **Journal of Information Science and Engineering**, ISSN: 1016-2364, Vol. 38, No. 4, pp. 859-875, 2022.
5. Published a Research Article “Examination of the DL Based Ubiquitous Multiple Input Multiple Output U/L NOMA System Considering Robust Fading Channel Conditions for Military Communication Scenario” in **Journal of Information Science and Engineering**, ISSN: 1016-2364, Vol. 38, No. 6, pp. 1335-1355, 2022.
6. Published a Research Article titled “Signal Conducting System with Effective Optimization Using Deep Learning for Schizophrenia Classification” in **Computer Systems Science and Engineering**, ISSN: 0267-6192 (Print), Vol. 45, No. 2, pp. 1869-1886, 2023.
7. Published a Research Paper titled “Design of frequency reconfigurable antenna based on μ C- μ EMS switch” in **AEU - International Journal of Electronics and Communications**, Vol. 171, November 2023, <https://doi.org/10.1016/j.aeue.2023.154911>.
8. Published a Research Paper titled “Ensemble Deep Learning Classifier with Optimized Cluster Head Selection for NIDS in MANET” in **Journal of Information Science and Engineering**, Vol. 39, No. 6, pp. 1233-1246, 2023.

Web of Science Indexed Journals:

1. Published a Research Article titled “Energy efficient data offloading in IoV using multi objective function” in **Turkish Journal of Physiotherapy and Rehabilitation**, Vol. 32, Issue 3, PP. 37213-37220, ISSN 2651-4451 | e-ISSN 2651-446X.

Scopus Indexed Journals:

1. Published a Research Article titled “ICR: Information, Cluster and Route agent based method for efficient routing in VANET” in **International Journal of Engineering & Technology (UAE)**, v.7, n. 1.9, p. 10-15, DOI: 10.14419/ijet.v7i1.9.9727, March 2018.
2. Published a Paper titled “Efficient Data Transmission in WSN using AODV Protocol Considering Throughput” in **International Journal of Engineering and Advanced Technology**, ISSN: 2249 – 8958, Volume-8 Issue-4, April 2019.
3. Published a Paper titled “Co-operative Cluster based Multi-Agent Approach for Efficient Traffic Forecasting and Management in VANET” in **International Journal of Innovative Technology and Exploring Engineering**, ISSN – 2278-3075, Volume-8 Issue-7, May 2019.
4. Published a Paper titled “A Reliable Data Sharing Protocol for Increasing Data Availability in MANET” in **International Journal of Advanced Science and Technology**, ISSN – 2005-4238, Volume-28 Issue-16, PP.912-919, 2019.
5. Published a Paper titled “Automated Wheel Chair using Multiple Methods in Android Technology” in **International Journal of Scientific & Technology Research**, ISSN – 2277-8616, Volume-9 Issue-01, January 2020.
6. Published a Paper titled “Securing Mass Distributed Big Data Storage using Intelligent Elliptic Curve Integrated Encryption Scheme in Multi-Cloud Computing” in **International Journal of Engineering Trends and Technology**, ISSN – 2231-5381, Volume-70 Issue-1, PP. 35-42, January 2022, DOI:10.14445/22315381/IJETT-V70I1P204.
7. Published a paper titled “Detection of Sybil Attack in MANET Environment using ANFIS with Bloom Filter Algorithm” in **Indian Journal of Computer Science and Engineering**, Volume-13, Issue-1, PP. 82-92, 2022.
8. Published a Paper titled “Analysis of User Pairing Non-Orthogonal Multiple Access Network

- using Deep Q-Network Algorithm for Defense Applications”, in **The Journal of Defense Modeling and Simulation: Applications, Methodology, Technology**, <https://doi.org/10.1177/15485129211072548>, Vol. 20 No. 3 PP. 303-316, 2023.
9. Published a Paper titled “An Automated Segmentation and Classification Model for Banana Leaf disease Detection” in **Journal of Applied Biology and Biotechnology**, ISSN – 2455-7005, Volume-10 Issue-01, PP.213-220, January 2022, DOI: 10.7324/JABB.2021.100126.
 10. Published a Paper titled “Detection of Cybil Attack in MANET Environment using ANFIS with Bloom Filter Algorithm”, in **Indian Journal of Computer Science and Engineering**, e-ISSN : 0976-5166, p-ISSN : 2231-3850, Vol. 30, No. 1, Jan-Feb 2022.
 11. Published a Research Article titled “A novel approach to select cluster head and optimizing the data transmission in VANET” in **International Journal of Advanced Intelligence Paradigms**, Vol. 21, No. 3/4, PP. 235-246, 2022, ISSN - 1755-0386 (Print), 1755-0394 (Online), DOI: 10.1504/IJAIP.2022.122194, 2022.
 12. Published a Paper titled “A Prediction of Skin Cancer using Mean-Shift Algorithm with Deep Forest Classifier” in **Iraqi Journal of Science**, EISSN: 2312-1637, ISSN: 0067-2904, Vol. 73, No 7, 2022.
 13. Published a Paper titled “Frequency Reconfigurable Microstrip Patch Antenna for Multiband Applications with Shunt-Series MEMS Switch” in **International Journal on Recent and Innovation Trends in Computing and Communication**, ISSN: 2321-8169 (Print), Vol. 10, No, 12, pp. 125-132, 2022.
 14. Published a Paper titled “Development of Deep Learning based Intelligent Approach for Credit Card Fraud Detection” in **International Journal on Recent and Innovation Trends in Computing and Communication**, ISSN: 2321-8169 (Print), Vol. 10, No, 12, pp. 133-139, 2022.
 15. Published a Paper titled “5G NOMA Defense Application Environment and Stacked LSTM Network Architectures” in **Journal of Mobile Multimedia**, ISSN: 1550-4646, Vol. 19, No, 1, pp. 73-102, 2023.
 16. Published a Paper titled “Pigeon Inspired Optimization based Centroid Selection in TGVFCMS for Energy-Efficient Wireless Sensor Network” in **International Journal of Electrical and Electronics Engineering and Telecommunications**, ISSN: 2319-2518, Vol. 12, No, 2, pp. 124-133, 2023.
 17. Published a Paper titled “Twitter Sentiment Analysis using Ensemble Classifiers on Tamil and Malayalam Languages” in **International Journal of Autonomous and Adaptive Communication Systems (Inderscience Publishers)**, ISSN online - 1754-8640, ISSN print - 1754-8632, DOI: 10.1504/IJAACS.2023.10046016, 2022.
 18. Published a Paper titled “Optimized IANSegNet: Deep Segmentation for the Detection of Inferior Alveolar Nerve Canal” in **BioMed Research International**, Vol. 2023, Article ID – 6431692, <https://doi.org/10.1155/2023/6431692>.
 19. Published a Paper titled “Hybrid Optimization based Feature Selection with DenseNet Model for Heart Disease Prediction” in **International Journal of Electrical and Electronics Research (IJEER)**, e-ISSN : 2347-470X, Vol. 11, No. 2, pp. 253-261, 2023.
 20. Published a Paper titled “Frequency Reconfigurable Microstrip Patch Antenna for Multiband Applications with RF MEMS Shunt Capacitor Switch” in **International Journal of Intelligent Systems and Applications in Engineering**, Vol. 11, No. 3s, pp. 1-7.
 21. Published a Paper titled “Attack Detection using DL based Feature Selection with Improved Convolutional Neural Network” in **International Journal of Electrical and Electronics Research (IJEER)**, e-ISSN : 2347-470X, Vol. 11, No. 2, pp. 308-314, 2023.
 22. Published a Paper titled “Examination of the Bi-LSTM Based 5G-OFDM Wireless Network Over Rayleigh Fading Channel Conditions” in **Journal of Mobile Multimedia**, Vol. 19, No. 4, pp. 1067-1106, 2023.
 23. Published a Paper titled “Prediction of Alzheimer's Disease Using LeNet-CNN Model with Optimal Adaptive Bilateral Filtering” in **International Journal of Communication Networks**

and Information Security, Vol. 15, No. 1, pp. 12-23, 2023.

24. Published a Paper titled "Tom and Jerry Based Multi-path Routing with Optimal K-medoids for Choosing the Best Cluster Head in MANET" in **International Journal of Communication Networks and Information Security**, Vol. 15, No. 1, pp. 70-82, 2023.
25. Published a Paper titled "Improving EEG Electrode Sensitivity with Graphene Nano Powder and Neural Network for Schizophrenia Diagnosis" in **Tikrit Journal of Engineering Sciences**, Vol. 30, No. 1, pp. 84-93, 2023.
26. Published a Paper titled "Design of M3FCM based Convolutional Neural Network for Prediction of Wheat Disease" in **International Journal of Intelligent Systems and Applications in Engineering**, Vol. 11, No. 2s, pp. 203-210, 2023.
27. Published a Paper titled "Condition based Ensemble Deep Learning and Machine Learning Classification Technique for Integrated Potential Fishing Zone Future Forecasting" in **International Journal on Recent and Innovation Trends in Computing and Communication**, Vol. 11, No. 2, pp. 75-85, 2023.
28. Published a Paper titled "Optimized Deep Belief Neural Network for Semantic Change Detection in Multi-Temporal Image" in **International Journal on Recent and Innovation Trends in Computing and Communication**, Vol. 11, No. 2, pp. 86-93, 2023.
29. Published a Paper titled "Network Intrusion Detection based on One Dimensional CNN with Chimp Optimization Algorithm" in **Journal of Theoretical and Applied Information Technology**, Vol. 101, No. 10, pp. 3739-3748, 2023.
30. Published a Paper titled "Colorectal Cancer Prediction using ResNet-CNN Classification Method" in **International Journal of Advances in Soft Computing and its Applications**, Vol. 15, No. 2, pp. 54-66, 2023.
31. Published a Paper titled "Sparrow Search Algorithm based BGRNN Model for Animal Healthcare Monitoring in Smart IoT" in **International Journal on Recent and Innovation Trends in Computing and Communication**, Vol. 11, No. 7, pp. 57-67, 2023.
32. Published a paper titled "Monkeypox Detection Using Hyper-Parameter Tuned Based Transferable CNN Model" in **International Journal of Experimental Research and Review**, Vol. 33, pp. 18-29, 2023, <https://doi.org/10.52756/ijerr.2023.v33spl.003>.
33. Published a Paper titled "Enhancing Smart City Waste Management through LBBOA based RIAN Classification" in **International Research Journal of Multidisciplinary Technovation**, Vol. 5, No. 6, pp. 58-70, 2023.
34. Published a Paper titled "Creating a deep learning model using a Swin Transformer and tree growth optimisation to classify brain tumour" in **Review of Computer Engineering Research**, Vol. 10, No. 3, pp. 110-121, 2023.
35. Published a Paper titled "Examination of Deep Learning based NOMA System Considering Node Mobility and Imperfect CSI" in **Radioelectronics and Communications Systems**, Vol. 66, No. 7, pp. 323-355, 2023.
36. Published a Paper titled "Smart Farming with Sooty Tern Optimization based LS-HGNet Classification Model" in **International Journal of Experimental Research and Review**, Vol. 37, pp. 96-108, 2024.
37. Published a Paper titled "AOA based Masked Region-CNN model for Detection of Parking Space in IoT Environment" in **International Research Journal of Multidisciplinary Technovation**, Vol. 6, No. 1, pp. 97-108, 2024.
38. Published a Paper titled "Sugarcane yield prediction using NOA-based swin transformer model in IoT smart agriculture" in **Journal of Applied Biology and Biotechnology**, Vol. 12, No. 2, pp. 239-247, 2024.
39. Published a Paper titled "Development of IoT based intelligent irrigation system using particle swarm optimization and XGBoost techniques" in **Bulletin of Electrical Engineering and Informatics**, Vol. 13, No. 3, pp. 1927-1934, 2024.
40. Published a Paper titled "Advanced Lightweight ST-TCN Framework using UAV Multi-Spectral

- Remote Sensing for Surveillance and Control of Pine Nematode Disease” in **Journal of Theoretical and Applied Information Technology**, Vol. 102, No. 21, pp. 7830-7839, 2024.
41. Published a Paper titled “Improving the accuracy in the prediction of crack detection in masonry walls using support vector machine in comparison with random forest algorithm” in **AIP Conference Proceedings**, Vol. 3193, No. 1, 020068, 2024, <https://doi.org/10.1063/5.0232786>.
 42. Published a Paper titled “Explainable Deep Learning for Glaucoma Detection: Efficient Dense Net with Quantum-based Dwarf Mongoose Optimization” in **Edelweiss Applied Science and Technology**, Vol. 8, No. 6, pp. 694-706 2024.

IEEE-Xplore (Scopus Indexed):

1. Presented a Research Paper titled “Performance Analysis of DSR and Cache Customized DSR Steering Protocols in Wireless Mobile Adhoc Networks” in **5th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)** organized by SCAD Institute of Technology, Tamil Nadu on 11-13 November 2021, ISBN No: 978-1-6654-2641-1.
2. Presented a Research Paper titled “An Energy Efficient Routing Protocol based on SMO Optimization in WSN” in **6th International Conference on Communication and Electronics Systems (ICCES-2021)** organized by PPG Institute of Technology, Coimbatore on 08-10 July 2021, ISBN No: 978-0-7381-1405-7.
3. Presented a Research Paper titled “Protecting Online Media Information Using Customized Positioning Based Proposal” in **International Conference on Computer Communications and Informatics (ICCCI-2022)** organized by Sri Shakthi Institute of Engineering and Technology, Coimbatore on 25-27 January 2022, DOI: 10.1109/ICCCI54379.2022.9740992.
4. Presented a Research Paper titled “Performance Analysis of Modified Position Response Routing Protocol (MPRRP) to Improve QoS in WSN’s” in **International Conference on Communication Computing & Internet of Things (IC3IOT-2022)** organized by Sri Sai Ram Engineering College, Chennai on 10-11 March 2022.
5. Presented a Research Paper titled “Vortex Search Algorithm based Machine Learning Classification for IDS” in **6th International Conference on Trends in Electronics and Informatics (ICOEI-2022)** organized by SCAD College of Engineering and Technology, Tirunelveli on 28-30 April 2022.
6. Presented a Research Paper titled “An Improved Firefly Algorithm based Task Scheduling in Cloud Computing for Effective Resource Utilization” in **International Conference on Advanced Computing & Communication Systems (ICACCS-2022)** organized by Sri Eshwar College of Engineering, Coimbatore on 25-26 March 2022.
7. Presented a Research Paper titled “Implementation of QoS-Improved region Based Routing Protocol (QoS-IRBRP) to Enhance Energy Efficiency in MANET” in **International Conference on Advanced Computing & Communication Systems (ICACCS-2022)** organized by Sri Eshwar College of Engineering, Coimbatore on 25-26 March 2022.
8. Presented a Research Paper titled “An Integration of Deep Learning Approach for Prediction of Consumer Reviews using Sentiment Analysis” in **3rd International Conference on Electronics and Sustainable Communication Systems (ICESC-2022)** organized by Hindustan Institute of Technology, Coimbatore on 17-19 August, 2022.
9. Presented a Research Paper titled “Implementation of Enhanced Energy Aware Clustering Based Routing (EEACBR) Algorithm to Improve Network Lifetime in WSN’s” in **2nd International Conference on Mobile Networks and Wireless Communications (ICMNWC-2022)** organized by Sri Siddhartha Institute of Technology, Tumakuru on 2-3 December 2022.
10. Presented a Research Paper titled “Improvement of Safety in Road Environment by Designing an Advanced Driver Assistance System” in **International Conference on Automation, Computing and Renewable Systems (ICACRS-2022)** organized by Mount Zion College of Engineering and

technology, Pudukottai on 13-15 December 2022.

11. Presented a Research Paper titled “Lifting Wavelet Transform based FBMC for Visible Light Communication” in **International Conference on Intelligent Data Communication technologies and Internet of Things (IDCIOT-2023)** organized by REVA University, Bangalore on 5-7 January 2023.
12. Presented a Research Paper titled “A Systematic Analysis, Review of Data Encryption Technology and Security Measures in IoT, Big Data and Cloud” in **5th International Conference on Contemporary Computing and Informatics (IC3I 2022)** organized by Amity University, Uttar Pradesh on 14-16 December 2022.
13. Presented a Research Paper titled “Enhancement of Energy Efficiency and Network Lifetime Using Modified Cluster Based Routing in Wireless Sensor Networks” in **International Conference on Intelligent Systems for Communication, IoT and Security (ICISCoIS)** organized by PSG College of Technology, Coimbatore on 9-11 February 2023.
14. Presented a Research Paper titled “A Novel Prediction of Alzheimer's Disease by using Artificial Intelligence” in **7th International Conference on Intelligent Computing and Control Systems (ICICCS-2023)** organized by Vaigai College of Engineering, Madurai on 17-19 May 2023.
15. Presented a Research Paper titled “Enhancement of Energy Efficiency using Improved Energy Efficient Routing Protocol in Wireless Sensor Networks for IoT Applications” in **3rd International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS 2023)** organized by Adi Shankara Institute of Engg & Technology, Kalady, Kerala on 18-20 May 2023.
16. Presented a Research Paper titled “Enhancement of Throughput and Energy Efficiency Using Enhanced Dynamic Power Consumption MAC Protocol in MANET” in **International Conference on Sustainable Emerging Innovations in Engineering and Technology (ICSEIET)** organized by ABES Engineering College Ghaziabad on 14-15 September 2023, pp. 719-724.
17. Presented a Research Paper titled “Implementation of Extreme Learning Model for Cyber Security in IoT Networks” in **International Conference on Sustainable Communication Networks and Application (ICSCNA)** organized by Bharath Niketan Engineering College, Tamil Nadu on 15-17 November 2023, pp. 374-379.
18. Presented a Research Paper titled “Enhancement of Security in IoT Using Modified AES Algorithm for IoT Applications” in **International Conference on Sustainable Communication Networks and Application (ICSCNA)** organized by Bharath Niketan Engineering College, Tamil Nadu on 15-17 November 2023, pp. 380-386.
19. Presented a Research Paper titled “Enhancement of Network Security in MANETs Using Improved Averaging Self-Optimization Algorithm (IASOA) for IoT Applications” in **3rd IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC 2023)** organized by Sri Siddhartha Institute of Technology, Tumakuru on 8-10 December 2023, pp. 1-5, doi: 10.1109/ICMNWC60182.2023.10435907.
20. Presented a Research Paper titled “Exploring the Role of Generative Adversarial Networks (GANs) in Image Translation using Load Balancer Interface Application” in **3rd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)** organized by Dayananda Sagar College of Engineering, Bangalore on 21-23 December 2023, pp. 272-277.
21. Presented a Research Paper titled “Enhancement of Network Security in MANET Using Refined Adaptive Harris Hawks Optimization Algorithm (RAHHO) for IoT Applications” in **International Conference on Emerging Smart Computing and Informatics (ESCI)** organized by AISSMS Institute of Information Technology, Maharashtra on 5-7 March 2024.
22. Presented a Research Paper titled “Design and Implementation of AMBA-APB Protocol for System-on-Chip (SoC) Designs” in **3rd IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE 2024)** organized by Ballari Institute of Technology and Management, Karnataka on 26-27 April 2024.

23. Presented a Research Paper titled “Enhancement of Network Security in MANET using Adaptive Coronavirus Herd Immunity Optimizer (ACHIO) Algorithm for IoT Applications” in **3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC)** organized by R P Sarathy Institute of Technology, Tamil Nadu on 5-7 June 2024, pp. 1603-1608.
24. Presented a Research Paper titled “Cardiovascular Disease Prediction Through Machine Learning Algorithms” in **3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC)** organized by R P Sarathy Institute of Technology, Tamil Nadu on 5-7 June 2024, pp. 583-588.
25. Presented a Research Paper titled “Implementation of Optimal Crop Recommendation System using Machine Learning Algorithms” in **International Conference on Expert Clouds and Applications (ICOECA 2024)** organized by R V College of Engineering, Bengaluru on 18-19 April 2024, pp. 678-683.
26. Presented a Research Paper titled “Android Malware Detection Using Deep Transfer Learning Model for IoT Applications” in **IEEE International Conference on Communication, Computing and Signal Processing (IICCCS)**, ASANSOL, India, 2024, pp. 1-6, DOI: 10.1109/IICCCS61609.2024.10763662.
27. Presented a Research Paper titled "Implementation of Automatic Engine Control Mechanism using Bluetooth for IoT Applications" in **3rd International Conference for Advancement in Technology (ICONAT)**, Goa, India, 2024, pp. 1-6, DOI: 10.1109/ICONAT61936.2024.10774741.
28. Presented a Research Paper titled "Enhancemet of Network Security in Mobile Adhoc Networks using USASFO Algorithm for IoT Applications" in **5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI)**, Tirunelveli, India, 2024, pp. 209-215, DOI: 10.1109/ICDICI62993.2024.10810987.
29. Presented a Research Paper titled "Enhancement of Network Lifespan in WSN using Modified Pelican Optimization Algorithm for IoT Applications" in **5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI)**, Tirunelveli, India, 2024, pp. 223-227, DOI: 10.1109/ICDICI62993.2024.10810825.
30. Presented a Research Paper titled "Deep Neural Networks based Handwritten Signature Verification using Machine Learning Algorithms" in **2024 Asian Conference on Intelligent Technologies (ACOIT)**, Kolar, India, 2024, pp. 1-6, DOI: 10.1109/ACOIT62457.2024.10939870.
31. Presented a Research Paper titled " Enhancement of Network Security in MANETs using Modified Self-Optimization Algorithm (MSFO) for IoT Applications" in **2024 Asian Conference on Intelligent Technologies (ACOIT)**, Kolar, India, 2024, pp. 1-6, DOI: 10.1109/ACOIT62457.2024.10940002.

Springer Lecture Notes / Book Series (Scopus Indexed):

1. Presented a Research Paper titled “Web Page Classification based on Novel Black Widow Meta-Heuristic Optimization with Deep Learning Technique” in International Conference on “Machine Intelligence and Data Science Applications (MIDAS 2021)”, held on 26-27 December 2021 at Comilla University, Bangladesh. (**Springer Lecture Notes on Data Engineering and Communication Technologies**).
2. Presented a Research Paper titled “A Novel Feature Reduction Methodology using Siamese and Deep Forest Classification for Intrusion Detection” in 3rd International Conference on Communication and Intelligent Systems ICCIS 2021, held on 18-19 December 2021 at National Institute of Technology, Delhi. (**Springer Lecture Notes on Networks and Systems**).
3. Presented a Research Paper titled “A Deep Learning based Human Activity recognition System for Monitoring Elderly People” in 2nd International Conference on Computer Vision and Robotics

(CVR 2022) organized by Babu Banarasi Das University, Lucknow, India on May 21-22, 2022.
(**Springer Book Series – Algorithms for Intelligent Systems**).

Book Chapter (Scopus Indexed):

1. Authored a Book Chapter titled “Prediction of Grape Fruit Disease using Shuffled Frog Leaping Algorithm based Convolutional Neural Network” in the Book titled **Applying Drone Technologies and Robotics for Agricultural Sustainability**, IGI-Global Publishers, pp. 82-94, 2023, DOI: 10.4018/978-1-6684-6413-7.ch005.
2. Authored a Book Chapter titled “Deep learning for medical image processing: a comprehensive exploration of applications and challenges” in the Book titled **Exploring Intelligent Healthcare with Quantum Computing**, IET Digital Library, Book DOI: 10.1049/PBHE060E, Chapter DOI: 10.1049/PBHE060E_ch5, ISBN: 9781839538094, https://doi.org/10.1049/PBHE060E_ch5.

UGC/Other Journals:

1. Published a Research Article titled “Statistical Steganalysis for Content-Adaptive Steganography” in International Journal of Engineering Science and Computing (IJESC), ISSN No. 2250-1371, Volume 6, Issue No.3, March 2016.
2. Published a Research Article titled “ Safe Range - Danger zone alert System” in International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN No. 2456-3307, Volume 2, Issue No.2, January-February 2017.
3. Published a Research Article titled “Disease Predictive, Best Drug: Big Data Implementation of Drug Query with Disease Prediction, Side Effects & Feedback Analysis” in International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN No. 2456-3307, Volume 2, Issue No.2, March-April 2017.
4. Published a Research Article titled “Distribution and Duplication of Records in Darken for Optimal Performance and Safety” in International Journal of Advance Research in Engineering, Science & Technology (IJAREST), Volume 5, Issue 3, March-2018, e-ISSN: 2393-9877, p-ISSN: 2394-2444.
5. Published a Research Article titled “Intelligent DNA Phenotyping Global Recognition and Oblivious Image-Processing Device (iDROID)” in International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 7, Special Issue 2, March 2018, ISSN(Online): 2319-8753, ISSN (Print): 2347-6710.
6. Published a Research Article titled “Event Based Actions and Energy Management in Smart City” in International Journal of Pure and Applied Mathematics, Volume 118, No. 20, March 2018, 1035-1042, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version).
7. Published a Research Article titled “Examination Security using QR Code” in International Journal of Advance Research in Engineering, Science & Technology, Volume 6, Issue 3, March 2019. e-ISSN: 2393-9877, p-ISSN: 2394-2444.
8. Published a Survey Paper titled “Credit Card Fraud Detection using Random Forest Algorithm” in International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 7, Issue III, Mar 2019, ISSN: 2321-9653.
9. Published a Paper titled “Man in the Middle Attack Prevention using Token Generation Technique” in International Journal of Scientific Research & Engineering Trends, Volume 6, Issue 3, May 2020, Pg. No – 1-5. ISSN: 2395-566X.
10. Published a Paper titled “Prevention of Food Wastage Using Mobile Application” in International Journal of Scientific Research & Engineering Trends, Volume 6, Issue 5, September 2020, Pg. No – 2822-2825. ISSN: 2395-566X.
11. Published a Paper titled “Face Detection based ATM Safety System in IOT using Secure

- Transaction” in International Research Journal of Engineering and Technology (IRJET), Volume 7, Issue 9, September 2020, Pg. No – 2161-2165. ISSN: 2278-0181.
12. Published a Paper titled “Ensemble Classifier Model with Crow Search Feature Selection for Recognition of EEG Motor Imagery” in CVR Journal of Science and Technology, Volume 21, December 2021, PP. 39-47, ISSN: 2277-3916, DOI: 10.32377/CVRJST21.
 13. Published a Paper titled “An Ensemble Filter based Feature Selection with Deep Learning Classification for Breast Cancer Prediction using IoT” in Jundishapur Journal of Microbiology, Vol. 15, No. 1, 2022.

International Conference:

1. Presented a paper titled “Navigation of Robot towards a Harmoniously Human-Robot Coexistence” in the International Conference on Information, Systems and Computing – ICISC’14 during January 4th & 5th 2014.
2. Presented a Research Paper titled “Artificial Intelligence Traffic Controlling and Monitoring System” in International Conference on Informatics Computing in Engineering Systems (ICICES-18), ISBN No: 978-1-5386-2591-18 organized by S A Engineering College, 21-22 March 2018.
3. Presented a Research Paper titled “Implementation of an Efficient Energy Generating System using Humps with Automatic Street Light using IoT” in International Conference on Artificial Intelligence and Machine Learning (IAIM 2019), ISBN No: 978-93-83409-52-5 organized by Sathyabama Institute of Science and Technology, Chennai on 3-5 April 2019.

National Conference:

1. Presented a paper titled “Integrating VANET-3G for Effective Vehicular Communication” in National Level Conference “Advanced Trends in Computing and Communication – 2K12” held on 15th September 2012.
2. Presented a paper titled “Wearable Sensor Based Systems for Health Monitoring and Prognosis” in the National Conference on “Recent Trends on Information Technology” organized by Department of IT, S A Engineering College, Chennai on 7th January 2015.
3. Presented a Research Paper titled “Product Aspect Ranking and its Application” in National Conference on Advanced Computing Technologies (NCACT’18), March 2018, ISBN - 978-93-5300-327-2.
4. Presented a Research Paper titled “Intelligent Detection and Elimination of Blockage in Pipe using Robot Mechanism” in National Conference on Emerging Trends in Data Science & Technology (NCETDST 2018), March 2018.

Book Publication:

1. Authored a Textbook titled “**Computer Architecture and Organization**” published by Scientific International Publishing House with ISBN – 978-93-92992-35-3 in December 2021.

Patents:

Sl. No	Patent Application Number	Patent Title	Domain	Date of Publication

1	202131021765	An AI and IOT based Traffic Surveillance System for Bike Riders and Method thereof	Electronics	11.06.2021
2	202131029128	A System and Method for Facial Recognition using Micro Drone	Computer Science	16.07.2021
3	202111041125	A Method and System for Improving Wireless Sensor Network using Fault Mitigation Technology	Communication	01.10.2021
4	202141042815	Intelligent Garbage Collection and Alarm System Based on IoT	Computer Science	01.10.2021
5	202121041395	Implementation of Artificial Intelligence for Artificial Rainmaking Through Laser Initiation Endothermic Reactions Through Drone Remote Control System	Computer and Mechanical Engineering	29.10.2021
6	202141048455	Person Gender and Age Determination Using Deep Learning Techniques in Real Time	Computer Science	05.11.2021
7	202141056826	Retarding of Preliminary Chemical Pollutants from Dye Industry Effluents by Metal Nano Particles, Synthesized Using Flower Extract of Catharanthus Roseus	Biotechnology	10.12.2021
8	202241040650	Deep learning model for vulnerability detection and smart protection of various transactions in financial institutions	Computer Science	22.07.2022
9	202441061248	Gas Detection and Recognition using IR Sensor	Bio-Medical Engineering	30.08.2024
10	202441098667	Device to Generate Power using Wave Current	Mechanical Engineering	27.12.2024
11	202541000215	Quantum-Enhanced Cryptographic System for Secure Data Transmission and Storage	Communication	10.01.2025
12	202541000331	Innovative Diagnostic System for Dementia Leveraging Collective Intelligence and Machine Learning	Bio-Medical Engineering	10.01.2025
13	202541000333	Smart Rehabilitation System Using AI and Robotics for Personalized Patient Recovery	Electronics	10.01.2025
14	202541000252	AI-Driven Personalized Healthcare System using Predictive Analytics and Genomic Data	Bio-Medical Engineering	17.01.2025
15	202541004987	Smart Home-Based System for Elderly Assistance Using AI-Driven Fall Detection and Health Monitoring	Bio-Medical Engineering	31.01.2025
16	202541005012	NLP-Based System for Real-Time Content Moderation and Hate Speech Detection in Online Communities	Computer Science	31.01.2025
17	202541005013	Blockchain-based Health Record System for Secure Patient Data Management	Bio-Medical Engineering	31.01.2025
18	202541005015	Blockchain-Based Medical Records Management System for Enhanced Data Security and Interoperability	Bio-Medical Engineering	31.01.2025
19	202541005016	Blockchain-Based Decentralized Identity Verification System for Secure Online Transactions	Communication	31.01.2025
20	202541005017	Adaptive Neural Interface for Brain-Computer Communication Using Deep Learning Algorithms	Computer Science	31.01.2025

21	202541005029	AI-Based Predictive Maintenance Platform for Industrial Machinery with Real-Time Data Analytics	Computer Science	31.01.2025
22	202541005035	Autonomous Drone System for Disaster Response and Search-and-Rescue Operations	Mechanical Engineering	31.01.2025
23	202541005064	Smart Adaptive Power Management System for Mobile Devices Using Machine Learning	Communication	31.01.2025
24	202541005065	Augmented Reality-Based Training System for Medical Professionals	Computer Science	31.01.2025
25	202541005066	Autonomous Drone Navigation System Using Real-Time Environmental Mapping and Deep Learning	Computer Science	31.01.2025
26	202541005028	AI-Driven Personalized Healthcare System for Genomic Data Integration	Bio-Medical Engineering	07.02.2025
27	202541005883	Artificial Intelligence (XAI) System for Early Detection and Diagnosis of Cardiovascular Diseases	Bio-Medical Engineering	14.02.2025
28	202541011698	Hybrid Solar Energy Harvesting Device with Integrated Thermal and Photovoltaic Conversion	Electrical	21.02.2025
29	202541011699	Self-Healing Material for Advanced Aerospace Applications Using Embedded Nano-Structures	Polymer Technology	21.02.2025
30	202541024943	Bio-AI Powered Personalized Drug Formulation & Smart Dosage System	Bio-Medical Engineering	28.03.2025
31	202541025032	Adaptive Federated Learning-Based Intrusion Detection System for Secure Edge Computing in IIoT Networks	Computer Science	28.03.2025
32	202541025047	Graph Neural Network-Based Anomaly Detection System for Industrial IoT Networks	Computer Science	28.03.2025
33	202541025055	AI-Powered Smart Ocean Surveillance for Illegal Fishing & Marine Protection	Computer Science	28.03.2025
34	202541024965	Machine Learning-Based X-ray Leaf Nutrient Analysis using Random Forest and Kaggle's "Leaf Nutrient Dataset"	Physics	04.04.2025
35	202541025036	Autonomous AI-Based Soil Regeneration System for Climate-Smart Agriculture	Mechanical Engineering	04.04.2025

Copyrights:

Sl. No	Copyright Application Number	Copyright Title	Domain	Date of Registration
1	1186467	Virtual Reality Learning and Amusement Methodology based on AI	Computer Science / Literary	20.09.2021
2	1189359	Automatic Plant Leaf Disease Diagnosis with Machine Learning and Deep Convolutional Neural Networks	Computer Science / Literary	04.01.2022

Consultancy Projects:

Sl. No	Project Title	Company Name	Duration	Amount
1	Online Placement Exam Software	NETMASTERS, Chennai	8 Months	Rs.1,00,000/-
2	Customized Website Design	Amirthaa HVAC Solutions, Chennai	5 Months	Rs. 50,000/-
3	Inventory Control System	Kalam Kitchen Equipments, Chennai	3 Months	RS. 50,000/-

Awards & Recognitions:

Sl. No	Name of the Award	Issued by	Academic Year
1	Received Gold Coins 2-times for producing 100% results in University Examinations	Panimalar Institute of Technology, Chennai	2014 & 2016
2	Received Cash Award of Rs. 5000 4-times for producing more than 90% results in University Examinations	Panimalar Institute of Technology, Chennai	2013, 2015, 2017 & 2019
3	Best Teacher Award	Panimalar Institute of Technology, Chennai	2018-2019
4	Excellence in Academic & Research Award	International Journal of Modern Trends in Science and Technology (IJMTST)	2020-2021
5	Best Faculty Award (Male)	International Business & Academic Excellence Awards	2021
6	Best Senior Faculty Award	Novel Research Academy, Pondicherry	2021-2022

Area of Interest:

- Computer Architecture
- Data Structures
- Software Engineering
- Computer Networks

Additional Responsibilities Handled:

- NBA Criteria In-charge
- Industrial Visit Coordinator
- Exam Cell Member
- NSS Committee Member
- Member of Library Advisory Committee
- Anti-Ragging Committee
- Student Counseling Committee

- Class In-Charge
- Student Mentor & Counselor

Personal Profile:

Name	:	Dr. V. Gokula Krishnan
Date of Birth	:	14-08-1985
Father's Name	:	P. Vasudevan
Sex	:	Male
Marital Status	:	Married
Languages Known	:	Tamil, English, and Telugu
Nationality	:	Indian
Mobile Number	:	9894751429
Email ID	:	gokul_kris143@yahoo.com
Address for Communication	:	Dr. V. GOKULA KRISHNAN, Plot No: 27, Venkateswara College Road, Annai Nagar, Thirupachur, Thiruvallur, Thiruvallur Taluk & District – 631 203, Tamil Nadu, India.

Strengths:

- Confidence
- Hard Working
- Adapting to the environment
- Friendliness

Hobbies:

- Reading Books
- Listening Music
- Traveling
- Sports Activities

Declaration:

I consider myself familiar with Computer Science and Engineering aspects. I am also confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge.

Place:**Date:****(Dr. V. GOKULA KRISHNAN)**