


SRI SAI RAM ENGINEERING COLLEGE,CHENNAI-44

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

1	Name	:	Dr. PERIASAMY J K	
2	Qualification		<ul style="list-style-type: none">● M.E(CSE) at K.S.R College of Technology, Thiruchengodu , Anna University – 2005- FIRST CLASS● Ph. D Anna University- January 2020 Domain: Cloud Computing Title: Enhanced Secure Content Deduplication using Effective Hash Function and Chunking Algorithm● PDF National Kaohsiung University of Science and Technology, Taiwan - January 2026 Domain: Cloud Computing Title: Enhancing cloud Security by performing deduplication using serial cascaded autoencoder with GRU and optimal key-based data sanitization	
3	Designation/Dept.		Associate Professor/CSE	
4	Area of Specialization	:	Wireless Networks, Cloud Computing and Data Science	
5	Year of Experience	:	Teaching: 21 Years and 07 Months Industry: Nil	

6	No. of Workshops/FDP/SDP Attended	:	52
7	Publications	:	<p>Patents:</p> <p>Published : 31</p> <p>Granted : 05</p> <p>Book & Book Chapter : 14</p> <p>Journal:</p> <p>International : 56</p> <p>National : 01</p> <p>Conference:</p> <p>International : 28</p> <p>National : 15</p> <p>Indexed:</p> <p>SCI : 10</p> <p>WOS : 03</p> <p>SCOPUS : 41</p> <p>Others : 60</p>
8	Research Guidance	:	Nil
9	Professional Societies Membership :IEEE Senior Member-91287898, CSI- I1505852, ISTE-LM131578, IAENG-122017, IACSIT-80344662, IFERP-PMIN42687901		
10	<p>Patents Details :</p> <p>1. Cross-Chain Asset Tokenization System and Method with Embedded Identity Encoding and Interoperable Trust Management Application No.202641004036 Date of filing of Application :14/01/2026, Publication Date : 30/01/2026 (IPR PATENT)</p> <p>https://drive.usercontent.google.com/download?id=1Y8IVGx6D8ilzALsSK60EgCKeUrESFVJC&authuser=0&acrobatPromotionSource=gdrive_chrome-list</p>		

2. Artificial Intelligence-Driven Intrusion Detection and Prevention System for Adaptive Network Security Application No.202541106217 Date of filing of Application :31/11/2025, Publication Date : 28/11/2025 **(IPR PATENT)**

<https://drive.google.com/drive/u/0/folders/1odmTCDmmt8PAgbkMhamJXsPrf1lhv8ij>

3. A METHOD FOR PRIVACY-PRESERVING FACE RECOGNITION USING ENCRYPTED FEATURES Application No.202521105247 Date of filing of Application :31/10/2025, Publication Date : 21/11/2025 **(IPR PATENT)**

https://drive.usercontent.google.com/download?id=1mlUY1XtzRUq44EoKOWCqwZAVUJypttbK&authuser=0&acrobatPromotionSource=gdrive_chrome-list

4. QUBIT-LEVEL ERROR DETECTION SYSTEM AND METHOD USING PROBABILISTIC STATE MAPPING Application No.202521083107 Date of filing of Application :02/09/2025, Publication Date : 19/09/2025 **(IPR PATENT)**

https://drive.google.com/file/d/1LN0PLOOCrt5yZF5_RWkqQ-NJEg5kKIC_/view?usp=drive_link

5. A SYSTEM AND METHOD FOR DETECTING CYBERSECURITY THREATS USING DEEP LEARNING-BASED ANOMALY DETECTION TECHNIQUES Application No.202521067999 Date of filing of Application :16/07/2025, Publication Date : 01/08/2025 **(IPR PATENT)**

https://drive.google.com/file/d/15nBNIsf6BdasOOPwOrqZO69JEId_Ip9r/view?usp=drive_link

6. A SYSTEM AND METHOD FOR AI-DRIVEN PREDICTIVE MAINTENANCE OF IOT DEVICES USING REAL-TIME ANOMALY DETECTION AND FAILURE FORECASTING Application No.202541042472 Date of filing of Application:01/05/2025, Publication Date : 30/05/2025 **(IPR PATENT)**

https://drive.google.com/file/d/1zOGgoMP-8E-gRR0erXC7XApyFtCvZcRp/view?usp=drive_link

7. BLOCKCHAIN-BASED SECURITY PROTOCOL SYSTEM AND METHOD FOR IOT DEVICES Application No.202541010839 Date of filing of Application :09/02/2025, Publication Date : 14/02/2025 **(IPR PATENT)**

https://drive.google.com/file/d/1L0bPTsVY_vINfnNuYP7HI41so0B3oppo/view?usp=drive_link

8. IoT-Enabled Intelligent Fire Detection and Safety Management System Application No.202441096106 Date of filing of Application :05.12.2024, Publication Date : 13.12.2024 **(IPR PATENT)**

https://drive.google.com/file/d/17p5rLrzmZS9P6GcdmYKnhDBOj0JQ1rE4/view?usp=drive_link

9. SHOPPING ASSISTANCE CART Application No.431330001 Date of filing of Application :01.07.2024, Publication Date : 23.09.2024 **(IPR PATENT)**

10. ROBOTIC SURGICAL SYSTEM WITH AI-ASSISTED NAVIGATION AND PRECISION CONTROL Application No.202441064108 Date of filing of Application :25.08.2024, Publication Date : 06.09.2024 **(IPR PATENT)**

<https://drive.google.com/drive/u/1/folders/1odmTCDmmt8PAgbkMhamJXsPrf1lhv8ij>

11. FRAMEWORK FOR THE INTRUSION DETECTION OF CYBERSECURITY ATTACKS BASED ON DATA MINING AND MACHINE LEARNING Application No.202441044112, Filling of Application: 06.06.24, Published Date: 21.06.2024. **(IPR PATENT)**

<https://drive.google.com/file/d/1vNY4I5przUR306cntJIHmrMeVq9d1kG/view>

12. AUTOMATED HEALTH DIAGNOSIS AND MEDICINE DISPENSER Application No. 202341071326, Filling of Application: 19.10.23, Published Date: 03.11.2023. **(IPR PATENT)**

<https://drive.google.com/file/d/1bndNpMPZ6RzI943lggjcp0NJJkKKKt/view?usp=sharing>

13. A blockchain based novel machine learning approach for smart health care framework Application No. 202341051245, Filling of Application: 30.07.23, Published Date: 01.09.2023. **(IPR PATENT)**

https://drive.google.com/file/d/1ziz4TnKPmHALDjCvTy-_Iuivu4TbRrL6/view?usp=sharing

14. An analytics interface for providing cyber threat detection and security system, Filling of Application: 22.07.23, Published Date: 01.09.2023 Patent Application No. 202341049516 **(IPR PATENT)**

https://drive.google.com/file/d/1YyjegYHEjCfXmBKxtjq8DSooCY6JOE_a/view?usp=sharing

15. An Association Rule Mining Algorithm that protects users personal information when using encrypted data in the cloud, Filling of Application: 11.07.23, Published Date: 01.09.2023 Patent Application No. 202341046440A. **(IPR PATENT)**

https://drive.google.com/file/d/1K5go_YVLgcarBxxoSAvmokLQ_Dk2ohi6/view?usp=sharing

16. Workflow Scheduling in FOG-Cloud Computing Using a Quantum Genetic Algorithm, Application No. 202321043817 Filling of Application: 29.06.23, Published Date: 04.08.2023 **(IPR PATENT)**

<https://drive.google.com/file/d/1pQ1M2mq3iE6KX7oHWP-x6Pds4R2z21Y/view?usp=sharing>

17. A System for providing security using a Plurality of factors for IOT Gadgets Application Number 202341040746, Publication Date: 30-06-2023 **(IPR PATENT)**

https://drive.google.com/file/d/1HTN2Y1KtZCUOPocWTnQ89UKN7dkV_LYo/view?usp=sharing

18. A Real Time Streaming Analytics for Internet of Things (IOT) Data Application Number 202341029933, Publication Date: 05-05-2023 **(IPR PATENT)**

<https://drive.google.com/file/d/1C-Ml9YVgSo9YaZSSPjuoDwB8jxcCIZrB/view?usp=sharing>

19. MONITORING AND SURVEILLANCE OF OBJECTIVES THROUGH SOCIAL NETWORKS FOR DEFENCE AND CYBER INTELLIGENCE Application Number 202341025424, Publication Date: 05-05-2023 **(IPR PATENT)**

https://drive.google.com/file/d/1AWtSAWg7y3vF2_4u08jlbO0Fz0pBBdlM/view?usp=sharing

20. Design Of Face Mask Detection Application Number 202241029601, Publication Date: 23-05-2022 **(IPR PATENT)**

<https://drive.google.com/file/d/1dmHI2DIxinnMhmJHUiMCaXs9KcA89Z9A/view?usp=sharing>

21. Crane Operated Blindspot Area To Avoid Accident Application Number 202141016369, Publication Date: 23-04-2021 **(IPR PATENT)**

<https://drive.google.com/file/d/15UpKbAX0E3pD2kDinSB45gK3xT0mVdQG/view?usp=sharing>

22. Voice Based Alerting and Assisting Tool for Visually Challenged Application number 202141005842, Date of filing of Application :11/02/2021, Publication Date: 19.02.2021 **(IPR PATENT)**

<https://drive.google.com/file/d/1i9IbtNF2CDZGuhUwRrgNahssiy0sXXTS/view?usp=Isharing>

23. Emotion Recognition Fitness Assistance for Fitness Blenders using Mel Frequency Cepstral Coefficients (MFCC) and spectral Modulation features. Application number 202041056021, Publication Date: 23.10.2020 **(IPR PATENT)**

https://drive.google.com/file/d/1rk3wrKOLslmvC5Q_nwRF5ye_da3qNUJO/view?usp=sharing

24. Cooperative Sensing, Communication and Control of IoT Network using Machine Learning Algorithms, Patent number 2020102663, Patent filing Date: 10.10.2020 **(International PATENT)**

<https://drive.google.com/file/d/10c8WvXBo02WEagnObZ9dfEN-rGiF3nOq/view?usp=sharing>

25. Futuristic Public Transit Pods Pickup And Drop By Power Line Communication, Application number 202041031870, Publication Date: 21.08.2020 **(IPR PATENT)**

https://drive.google.com/file/d/1aaBl-kmc45czwdp_9UAdiLknxlqKjMI5/view?usp=sharing

26. AD-HOC Network With Intel Galileo Gen2 Based Power Demand Control,
Application number 202041033566, Publication Date: 21.08.2020 **(IPR PATENT)**

<https://drive.google.com/file/d/1ZAceAiwSKyJMaHos8vVeve1dpduBlp0Z/view?usp=sharing>

27. A Rule based Rootkit Detection Method using Machine Learning in Embedded IoT Devices, Patent number 2020102099, Patent Granted Date: 30.09.2020 **(International PATENT)**

<https://drive.google.com/file/d/1MYEw8YEI7FOppKcwwIq6NRI2ISqD4w0-/view?usp=sharing>

28. An Intelligent Embedded Tool Recognition System for CNC Machines Using Deep Learning Algorithms, Patent number 2020102208, Patent Granted Date: 07.10.2020 **(International PATENT)**

<https://drive.google.com/file/d/11RHmcvz2I1e9WPXXvTFtYHri2JTj6wNu/view?usp=sharing>

29. An Automatic Hospital Stretcher That Monitors Vital Data's of The Patients,
Application number 202041044322, Patent Filed Date: 12.10.2020 **(IPR PATENT)**

<https://drive.google.com/file/d/13wL7qFszNFDrGGnZITO-P26fLHo6IIAW/view?usp=sharing>

30. A Machine Learning Based Automated Toilet Cleansing System with Automated Doors, Application number 202041044307, Patent Filed Date: 12.10.2020 **(IPR PATENT)**

https://drive.google.com/file/d/1pq-pfLOmIalowSVjQ5JRe9WI_olCFS0y/view?usp=sharing

31. Machine Learning Based Techie Safety Belt to Prevent the Sleepiness of Drivers,
Application number 202041044323, Patent Filed Date: 12.10.2020 **(IPR PATENT)**

https://drive.google.com/file/d/1VS_vfseePO4tin2dptOGVVIGOe5L4zFM/view?usp=sharing

	<p>32. Indoor Channel Statistic Properties Prediction Using Radial Basis Function Neural Network (Rbf-Nn) For 5G and Beyond (B5G) Networks, Patent number 2020101786, Patent Granted Date: 09.09.2020 (International PATENT)</p> <p>https://drive.google.com/file/d/1CMHfHD_VAOolpX3WPYU9ieWU6PWfenxG/view?usp=sharing</p> <p>33. SERS: Smart Emergency Response System Suits With Search-And-Rescue Dogs First Responders Using Voice Command And Mems Technology, Application number 202041028754A, Filing Date: 06.07.2020 Publication Date: 10.07.2020 (IPR PATENT)</p> <p>https://drive.google.com/file/d/15KfQOrTg4YgxvzGdOxxkBWHHGA2QUT1i/view?usp=sharing</p> <p>34. PORTABLE LOW COST SMART SPIROMETER USING EMBEDDED & IOT Application No.202041029484 A, Publication Date : 31/07/2020 (IPR PATEN)</p> <p>https://drive.google.com/file/d/1PjbM7zkzbchgj9XoqoVrQjfA8H-Uio0C/view?usp=drive_link</p> <p>35. HOME ANALYSIS FETAL HEART RATE MONITORING AND KICKING MEASUREMENT USING EMBEDDED AND IOT Application No.202041029995 A Publication Date : 31/07/2020 (IPR PATENT)</p> <p>https://drive.google.com/file/d/1BYRUwhKUDs7cxbtNOEUOXrARNO0zSm8/view?usp=sharing</p> <p>36. DESIGN AND FABRICATION OF CHILD RESCUE MACHINE FROM TUBE WELLS WITH WEIGHT CONSTRAINT USING SENSORS AND WIRELESS CAMERA Application No.202041030735A Date of filing of Application :06.07.2020, Publication Date : 31/07/2020 (IPR PATENT)</p> <p>https://drive.google.com/file/d/15KfQOrTg4YgxvzGdOxxkBWHHGA2QUT1i/view?usp=sharing</p>
11	International Conference (s) :

1. JK Periasamy, M Preetha, S Kamali, J Monisha “**Aqua Pulse: Advanced Sensor System for Water Health**” in 2025 International Conference on Computing and Communication Technologies (ICCCT), 16th April 2025 (Scopus Indexed)
<https://ieeexplore.ieee.org/abstract/document/11019859>
2. JK Periasamy, N Gunasundhari, R Sharlatha, Sreenithi “**Climatic Oracle: Unveiling Future Weather Trends with Data Science**” in 2024 International Conference on Smart Technologies for Sustainable Development Goals (ICSTSDG), 6th November 2024 (Scopus Indexed)
<https://ieeexplore.ieee.org/abstract/document/11026688>
3. JK Periasamy, K. Raagavi, P.Tarun Ashwanth “**Survey on Advanced Techniques for Cardiac Arrest Prediction Using Machine Learning**” in 2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), 8th October 2024 (Scopus Indexed)
<https://ieeexplore.ieee.org/abstract/document/10780403>
4. JK Periasamy, R Elamathi, S Subhiksha “**Guarding Against Data Breach**” in IEEE 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 12th December 2023 (WOS,Scopus Indexed)
<https://ieeexplore.ieee.org/document/10449222>
5. JK Periasamy, R Elamathi, S Subhiksha “**Data Leakage Vulnerability Assessment**” in IEEE 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 12th December 2023 (WOS,Scopus Indexed)
<https://ieeexplore.ieee.org/document/10448949>
6. JK Periasamy, Luxi Shanu CG, S Subhashree “**MARUNCURA-Tomorrow's Care, Today's Technology**” in IEEE 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 12th December 2023 (WOS,Scopus Indexed)
<https://ieeexplore.ieee.org/document/10449097>

7. JK Periasamy, K Raagavi, N Sangamithra, P Shwetha Darshini “**Automated Health Diagnosis and Medicine Dispenser**” in IEEE 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 12th December 2023 (WOS,Scopus Indexed)
<https://ieeexplore.ieee.org/document/10449247>
8. JK Periasamy, K Raagavi, N Sangamithra, P Shwetha Darshini “**Tech-Enabled Elderly Care: The MDVMD's Approach to Medication Adherence and Health Monitoring**” in IEEE 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), 12th December 2023 (WOS,Scopus Indexed)
<https://ieeexplore.ieee.org/document/10448883>
9. J K Periasamy, K Raagavi, N Sangamithra, P Shwetha Darshini, “**Secure and Enhanced Medical Data Repository**”, in IEEE 2023 6th International Conference on Contemporary Computing and Informatics (IC3I), 14th September 2023 (WOS,Scopus Indexed)
<https://ieeexplore.ieee.org/abstract/document/10398012>
10. M Sangeetha, B Srinivasa Kumar, K Chokkanathan, Ashok Kumar, S Krishna Prabha, Sivakumar Sattanathan, J.K Periasamy “**Developing Algorithms for Personalized Recommendations Based on User Behavior**” in 2023 5th International Conference on Inventive Research in Computing Applications (ICIRCA), Aug 2023, pp; 1152-1158 (WOS,Scopus Indexed)
<https://iopscience.iop.org/article/10.1149/10701.16351ecst/meta>
11. J.K Periasamy, S Buvana, P Jeevitha. “**Comparison of VGG-19 and RESNET-50 Algorithms in Brain Tumor Detection**”, in 2023 IEEE 8th International Conference for Convergence in Technology (I2CT), 4th July 2023 (WOS,Scopus Indexed)
<https://ieeexplore.ieee.org/abstract/document/10126451>
12. J.K Periasamy, R Srinidhi, S Srividhya "A Deep Learning Approach for Twitter BOT detection" in ICCST '22 ,IEEE International Conference on Computational Science and Technology,9th and 10th November 2022(WOS,Scopus Indexed)

<https://ieeexplore.ieee.org/document/10040412>

13. J.K Periasamy, V Dakiniswari, K Tapasya, “**AssessJet - Penetration testing and Vulnerability Assessment**” in the 2022 IEEE International conference on Communication, Computing & Internet of Things held on 10th and 11th March 2022. **(WOS,Scopus Indexed)**

<https://ieeexplore.ieee.org/document/9767928>

14. J K Periasamy, S Subhashree, Luxi Shanu CG, “**Espertositio - A template based digital portfolio for the professionals**” in the 2022 IEEE International conference on Communication, Computing & Internet of Things held on 10th and 11th March 2022. **(WOS,Scopus Indexed)**

<https://ieeexplore.ieee.org/document/9767877>

15. J.K. Periasamy; Mukilan I K; Karthik Prasad T, “**Generating Image Description Aiding Blind people interpretation**” in the 2022 IEEE International conference on Communication, Computing & Internet of Things held on 10th and 11th March 2022. **(WOS,Scopus Indexed)**

<https://ieeexplore.ieee.org/document/9767967>

16. J K Periasamy, Manju Bharghavi VR, D Jothishree, “**A Comparative Study of ConvoBiGRU and ConvoBiLSTM on Amazon Dataset**” in the 2022 IEEE International conference on Communication, Computing & Internet of Things held on 10th and 11th March 2022. **(WOS,Scopus Indexed)**

<https://ieeexplore.ieee.org/document/9767728>

17. Presented the paper titled, “**Privacy Preservation using FOG Technology using N Path Algorithm**” in the International Conference on Advances in Manufacturing Technology 25th and 26th March 2022.

<https://drive.google.com/file/d/1GgIWnKWupvX1kEfjtxUKNZ7NaR4RmvKX/view>

18. Presented the paper titled, “**Smart relay for monitoring and controlling the systems**”, in the Online International Conference on Recent Advances in Deep Learning

(ICRADL-2021) 31, January 2021, Organized by the Department of Computer Science and Engineering of Shri Vishnu Engineering College for Women, Bhimavaram, AP

<https://www.ijert.org/research/smart-relay-for-monitoring-and-controlling-the-systems-IJERTCONV9IS05099.pdf>

19. Presented the paper titled, '**Soil Classification and Crop Suggestion using Machine learning techniques**', in the International Conference on Computational Science & Technology held on 5th & 6th March 2020.
20. Presented the paper titled, '**Anomaly Detection and Optimization for Live Surveillance Feed**', in the International Conference on Computational Science & Technology held on 5th&6th March 2020.
21. Presented the paper titled, '**Accurate Flood Prediction using SAR Image and Alerting System**', in the International Conference on Computational Science & Technology held on 5th and 6th March 2020.
22. Presented the paper titled, '**Shrewd Credit Card with Anti-theft**', in the International Conference on Computational Science & Technology held on 5th&6th March 2020.
23. Presented the paper titled, '**Design of Sliding Mode Controller With Unmatched Disturbance**', in the International Conference on Computational Science & Technology held on 5th&6th March 2020.
24. Presented the paper titled, '**Cryptographic Hashing Method for Secure and Duplication Detection in Cloud**', In the International Conference on Computational Science & Technology held on 9th& 10th March 2017.
25. Presented the paper titled, '**The Enhancement of Storage and Bandwidth Optimization using Data De-Duplication**', In Proceedings of International Conference on Pattern Recognition and Multimedia Signal processing, Annamalai University, Chidambaram, 9th & 10th January 2015.
26. Presented the paper titled, '**Host Based Intrusion Avoidance Using Virtual Mechanism In Cloud Environment**' in International Conference on Electrical Communication and Computing, ICECC-2014, 13th& 14th March 2014.

	<p>27. Presented paper titled, ‘Evolving Bio Plausible Design For Heterogeneous NoC’ in IEEE International Conference on Advanced Communications Technology(ICACT2013) Phoenix Park, Pyeongchang, Korea, January 2103,(WOS, Scopus Indexed)</p> <p>https://ieeexplore.ieee.org/document/6488227</p> <p>28. Presented a paper titled, ‘Effective Routing and Forwarding in MANET’, in the International Conference on Innovations in Communication, Information and Computing at Sasurie College of Engineering, January 2013.</p>
12	<p>National Conference (s) :</p> <ol style="list-style-type: none"> 1. Presented the paper titled, "MODERN NEURAL NETWORK TECHNIQUE TO DETECT DEEP VEIN THROMBOSIS FROM CT SCAN IMAGES" in the National Conference on Smart Innovations in Communications and Computing (NCSICC-2021) on 24th March 2021. 2. Presented the paper titled, "CRYPTOCURRENCY FORECASTING AND ANOMALY DETECTION" in the National Conference on Smart Innovations in Communications and Computing (NCSICC-2021) on 24th March 2021. 3. Presented the paper titled, "Detection of Heart Disease using Light Gradient Boosting Machine" in the National Conference on Smart Innovations in Communications and Computing (NCSICC-2021) on 24th March 2021. 4. Presented the paper titled, "Server-Based Document Storage With Optical Character Recognition (Ocr) and Rule Based Grammar Checker", in the National Conference on Smart Innovations in Communications and Computing(NCSICC-2021) on 24th March 2021. 5. Presented the paper titled, ‘Web based online blood bank management system’ in the National Conference on Smart Innovations in Communications and Computing (NCSICC’19) on 5th March 2019. 6. Presented the paper titled, ‘Assured way to manage various controls in cloud’ in National Conference on Smart Innovations in Communications and Computing (NCSICC’19) on 5th March 2019.

	<p>7. Presented the paper titled, ‘Social media website for interaction between college students and professors’ in the National Conference on Smart Innovations in Communications and Computing (NCSICC’19) on 5th March 2019.</p> <p>8. Presented the paper titled, ‘Reliable multilayer architecture for privacy preserving in cloud’ in National Conference on Smart Innovations in Communications and Computing (NCSICC’19) on 5th March 2019.</p> <p>9. Presented the paper titled, ‘Accident Prevention using VANET’, in the National Conference on Smart Innovations in Communications and Computing (NCSICC’18) on 27th March 2018.</p> <p>10. Presented the paper titled, ‘safety keeper- an IOT based Safety Monitoring System’ in National Conference on Smart Innovations in Communications and Computing (NCSICC’18) on 27th March 2018.</p> <p>11. Presented the paper titled, ‘Cryptographic Hashing Method for Secure and Duplication Detection in Cloud’, in 8th National Conference on Recent Issues in Network Galaxy’17 at R.M.D Engineering College, Chennai, held on 4th April 2017.</p> <p>12. Presented the paper titled, ‘Secure Data Transmission Using One Time Pads’, in the National Conference on Computing Communication & Information Technology at T.J.S Engineering College, Peruvoyal, Thiruvallur, held on 7th April 2016.</p> <p>13. Presented the paper titled, ‘Advancement of Routing and Forwarding in MANET’, in the National Conference on S.A Engineering College held on 21st January 2013.</p> <p>14. Presented the paper titled, “An Enhanced MAC scheme for voice and data traffic in wireless ad-hoc network” in National conference - NACIS ‘09 held in Madha Engineering College 2009.</p> <p>15. Presented the paper titled, “Fragment class analysis for testing of polymorphism in object oriented software” in the National conference –KSR TECH FETE-2005 held in K.S.R College of Technology, Namakkal held on 6th March 2005.</p>
13	International Journal Publications :

1. JK Periasamy, S Prabhakar, A Vanathi, Liu Yu, **“Enhancing Cloud Security by Performing Deduplication Using Serial Cascaded Autoencoder With GRU and Optimal Key-Based Data Sanitization”** in Computational Intelligence, 10/2025; 41(5):pp. e70140 (**SCI,WOS, Scopus Indexed**)
<https://onlinelibrary.wiley.com/doi/abs/10.1111/coin.70140>
2. JK Periasamy, S Prabhakar, A Vanathi, Liu Yu, **“Enhancing cloud security and deduplication efficiency with SALIGP and cryptographic authentication”** in Scientific Reports, 17th August 2025; 15(1):pp. 30112 (**SCI,WOS, Scopus Indexed**)
<https://www.nature.com/articles/s41598-025-14972-3>
3. JK Periasamy, Shrabani Mallick, Sridevi Chitti, S Sivasakthi, Bindu KV, Ezudheen Puliyanjalil **“Tuna Swarm Algorithm Based Robust Node Localization Scheme in Wireless Communication Networks”** in International Research Journal of Multidisciplinary Scope (IRJMS), 2025; 6(3):1426-1437 (**Scopus Indexed**)
https://www.irjms.com/wp-content/uploads/2025/07/Manuscript_IRJMS_04022_WS.pdf
4. N Padma Priya, G Mohanbabu, C Sowtharya, M Saravanan, S Rukmani Devi, B Shanmuga Raja, JK Periasamy, V Vignesh Kumar, **“Enhancing industrial software security: A vulnerability threat assessment model based on CVSS 3.1 and bayesian networks”** in AIP Conference Proceedings, 11th April 2025, Vol 3270(1) pp. 020241 (**Scopus Indexed**)
<https://pubs.aip.org/aip/acp/article-abstract/3270/1/020241/3343939/Enhancing-industrial-software-security-A>
5. M Anita, B Usha Rani, JK Periasamy, TK Sethuramalingam, E Uma Maheswari, K Baranidharan, R Srinivasan, V Vijayan, **“Optimizing task scheduling in fog computing: Adaptive algorithms for enhanced security and efficiency in IoT environments”** in AIP Conference Proceedings, 11th November 2024, Vol 3193(1) pp. 020029 (**Scopus Indexed**)
<https://pubs.aip.org/aip/acp/article-abstract/3193/1/020029/3319627/Optimizing-task-scheduling-in-fog-computing>
6. R Sonia, S Anila, SA Karthik, S Meenakshi, Eric Howard, Kartikeya Parmar, JK Periasamy, V Vijayan, **“Refining adversarial attacks on machine-learning phishing webpage detectors**

through functionality-preserving HTML manipulations” in AIP Conference Proceedings, 11th November 2024, Vol 3193(1) pp. 020006 (**Scopus Indexed**)

<https://pubs.aip.org/aip/acp/article-abstract/3193/1/020006/3319604/Refining-adversarial-attacks-on-machine-learning>

7. Aswini Jayaraman, J K Periasamy, Chinnasamy Ambayiram, Mary Joy Kinol Alphonse, **“An optimal Bi-gated recurrent unit and ResNET using IoT for healthcare monitoring”** in Expert Systems with Applications, 8th January 2024, Vol 247, pp. 122818 (**SCI, WOS, Scopus Indexed**)

<https://www.sciencedirect.com/science/article/abs/pii/S0957417423033201>

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	<p>1. Published paper titled, ‘Quantum Computing: An Introduction’ in CSI Communications, Feb 2020.</p> <p>http://www.csi-india.org/downloads/pdf/2/csic%20february(2020).pdf</p>
15	<p>Programs Organized :</p> <ol style="list-style-type: none"> 1. Organized project exhibition of our department in 2013. 2. Organized mini project exhibition of our department in 2018. 3. Organized all Seminar and Workshop from 2011 to 2018. 4. Organizing Secretary for International Conference on Computational Science and Technology (ICCST2020) held on March 05-06, 2020 5. Organized all EAC programs from 2016 to 2022. 6. Organizing all CSI events from 2007 to 2025.
16	<p>Programs Attended:</p> <p>Workshop / FDP / SDP Attended:</p> <ol style="list-style-type: none"> 1. Attended six days FDP on “Emerging Trends in Generative AI for Secure and Intelligent Data Management” from 05.01.2026 to 10.01.2026 organized by the Department of Information Technology, Panimalar Engineering College. 2. Attended 8 weeks FDP on "Ethics in Engineering Practice" from Aug 2025 to Oct 2025 organized by NPTEL-AICTE. 3. Attended 12 weeks FDP on "Introduction to Internet of Things" from Jan 2024 to March 2024 organized by NPTEL-AICTE. 4. Attended one week FDP(Hybrid Mode) on “Advanced Research Methodology for Social Science Research” from 27.05.2024 to 01.06.2024 organized by Sri Sai Institute of Management Studies. 5. Attended 6 days FDP on “Quantum Computing” from 27.05.2024 to 01.06.2024 organized by the Department of AIDS of Sri Sai Ram Engineering College. 6. Attended 12 weeks FDP on "Introduction to Internet of Things" from Jan 2024 to March 2024 organized by NPTEL-AICTE.

7. Attended 12 weeks FDP on "**Cloud Computing**" from Jan 2024 to March 2024 organized by NPTEL-AICTE.
8. Attended 12 weeks FDP on "**Programming, Data Structures and AI**" from Jan 2024 to March 2024 organized by NPTEL-AICTE.
9. Attended 12 weeks FDP on "**Google Cloud Computing Foundations**" from Jan 2023 to April 2023 organized by NPTEL-AICTE.
10. Attended 12 weeks FDP on "**Introduction to Database Systems**" from Jan 2023 to April 2023 organized by NPTEL-AICTE.
11. Attended 5 days FDP on "**Inculcating Universal Human Values in Technical Education**" from 30.01.23 to 03.02.23 organized by All India Council for Technical Education.
12. Attended One week FDP on "**Communication and Computation**" from 13.12.22 to 19.12.22 organized by Dr. MGR Educational and research Institute University
13. Attended One week National Level FDP on "**Recent Technologies**" from 29.11.22 to 06.12.22 organized by Sathyabama Institute of Science and Technology.
14. Attended One week FDP on "**Emerging Research Trends in Computing Technologies**" from 28.11.22 to 02.12.22 organized by Dr. MGR Educational and Research Institute University
15. Attended 12 weeks FDP on "**Programming in Java**" from July 2022 to Oct 2022 organized by NPTEL-AICTE.
16. Attended an ISTE-CSI Sponsored 5 days Virtual FDP "**Insights and Open Challenges in Computing Technologies**" Conducted by CSE Dept / Sri Sairam Engineering College from 11.07.2022 to 15.07.2022
17. Participated in the Online Faculty Development Program on **New Trends in Teaching English for Engineering students** organized by SRM Institute of Science and Technology on 10 Dec 2021

18. Participated in ATAL FDP on **Machine Learning** Organized by All India Council for Technical Education from 7th Dec 2020 to 11th Dec 2020 at R M K College of Engineering and Technology.
19. Participated in ATAL STTP on **Incorporating the techniques of BlockChain and Artificial Intelligence to face the security and privacy challenges of IT infrastructure - Industry approach and Implementation** organized by All India Council for Technical Education from 23th Nov 2020 to 28th Nov 2020 at KCG College of Technology.
20. Participated in AICTE Sponsored STTP on **“Internet of Things and its Applications”** organized by the Department of SRM Valliammai Engineering College from 26th Oct 2020 to 31st Oct 2020.
21. MHRD - **Kapila Program for IP Literacy and awareness** attended National IP Literacy week from 15.10.2020 to 23.10.2020 (Certificate Received)
22. Participated in ATAL FDP on **Data Science** organized by All India Council for Technical Education from 28th Sep 2020 to 2nd Oct 2020 at IFET College of Engineering.
23. Participated in the Faculty Development Program on **Data Science** organized by Centre for Data Science and Artificial Intelligence of RIT from 24th Aug 2020 to 28th Aug 2020.
24. Participated in the Faculty Development Program on **Process Management in Problem Solving** conducted by ICT Academy from 18th Aug 2020 to 22nd Aug 2020.
25. Participated in the Faculty Development Program on **Python 3.4.3** held in Adhiparasakthi Engineering College, Melmaruvathur from 16th April 2020 to 22nd April 2020.
26. Participated in AICTE sponsored Faculty Development Program on **Artificial Intelligence & Machine Learning Using Data Science** held in S.A. Engineering College, Chennai from 22nd November 2019 to 5th December 2019.
27. Participated in **FDP on NextGenTechStackat** Sri Sairam Engineering College from 8th to 12th April.2019.
28. Participated in **AWS Academy Educators Meet 2019** held on 07 February 2019 at Radisson Blu GRT, Chennai, India.

29. Participated in Faculty Development Program on **Machine Learning Using Azure** held in Muthayammal Engineering College, Rasipuram from 10thDecember 2018 to 15thDecember 2018.
30. Participated in **FDTP on GE8151-PROBLEM SOLVING & PYTHON PROGRAMMING** at Sri Sairam Engineering College from 11th to 18th June.2018.
31. Participated in **AWS Academy Educators Meet 2018** held on 15 February 2018 at Radisson Blu GRT, Chennai, India.
32. Participated in Tech Workshop on Redhat (Open Source) Technology & Industry Adaptation held in Sri Sairam Engineering College on 5th December 2017.
33. Participated in AWS Workshop on **AWS Academy Cloud Computing Architecture** held in Tensor Infotech Private Limited Chennai from 21stNovember 2017 to 24thNovember 2017.
34. Participated in the Faculty Development Program on **Grid and Cloud computing** held in Sri Sairam Engineering College from 08th August 2016 to 09th August 2016.
35. Participated in a 4 day workshop on **Mobile Application Development** held in Sri Sairam Engineering College with Narbhavisoftlab from 17thFebruary 2016 to 20th February 2016.
36. Participated in Faculty Development Program on **Mobile Application Development Laboratory** held in **Jeppiaar SRR Engineering College** from 30th October 2015 to 31st October 2015.
37. Participated in the Faculty Development Program on **Cloud computing and Big Data** held in Sri Sairam Engineering College from 08th December 2014 to 09th December 2014.
38. Participated in the Faculty Development Program on **‘Big Data and Internet of Things’** held in Sri Sairam Engineering College from 10th February2014 to 14th February 2014.
39. Participated in AICTE sponsored seminar on **Cloud computing and Mining**, held in Sri Sairam Engineering College from 26th September 2013 to 27th September 2013.
40. Participated in Tutorial Session on **Cloud computing and Semantic Web**, held in Sri Sairam Engineering College from 4thJanuary 2013 to 5th January 2013.

41. Participated in the Faculty Development Program on **Soft Computing and Open Source Software** held in Sri Sairam Engineering College from 20th August 2012 to 24th August 2012.
42. Participated in the Faculty Development Program on "**Role of Academic Excellence in Developing World Class Higher Learning Institutions and Faculties**" held in Sri Sairam Engineering College on 12th Dec 2012.
43. Participated in the Faculty Development Program on "**MATLAB Applications in Electrical Engineering**" held in Sri Sairam Engineering College in March 2012.
44. Participated in the Faculty Development Program on **Service Oriented Architecture** held in CTS on 12th February 2012, Chennai.
45. Participated in One day workshop on "**Art of Journal and Thesis Writing**" held in Sri Sairam Engineering College on 19th January 2012.
46. Participated in the Staff Development Program on "**Soft Computing with AI**" held in Sri Sairam Engineering College from 15th September 2011 to 28th September 2011.
47. Participated in the Staff Development Program on "**Recent Developments in Computing**" held in Sri Sairam Engineering College in April 2010.
48. Participated in the Staff Development Program "**Mobile Networks**" held in Sri Sairam Engineering College from 19th January 2009 to 30th January 2009.
49. Participated in the Staff Development Program "**Web Services and Application**" held in Sri Sairam Engineering College in May 2008.
50. Participated in the Staff Development Program "**Instructional Design & Delivery**" held in Sri Sairam Engineering College in Jan 2008.
51. Participated in Staff Development Program "**Information Technology in Telemedicine and E-Health**" held in Sri Sairam Engineering College from 9th to 21st July 2007.
52. Participated in Short Term Training Programme on **MiddleWare Technologies** held in Sri Sairam Engineering College from 5th to 6th April 2006.

Programming Contest Participated:

	<ol style="list-style-type: none"> 1. Proctor to guide and oversee competing teams for the IEEEExtreme 16.0 Programming competition on 22nd October 2022. 2. Completed the requirements to be recognized as AICT Academy Certified Trainer in C Programming held in Sri Sairam Engineering College from 25th June 2018. 3. Participated in team NYX in Smart India Hackathon, 2018 at College of Engineering Pune on 30th& 31st March 2018. 4. Participated in NPTEL online Certification course Cloud Computing and secured 60% of marks from Feb-Mar 2018(8 week course) 5. Participated in NPTEL online Certification course Problem Solving Through Programming in C and secured 75% of marks from Jan-Apr 2018(12 week course) 6. Participated and exhibited the project, 'Medstaza' in the final round of SRISHIT 2018 held at SAINTGITS College of Engineering on 26th& 27th January 2018. 7. Completed 60 hours of Professional Development Oracle Academy Course on Java Fundamentals and Programming held in Sri Sairam Engineering College from 25th April 2016 to 29th April 2016. 8. Participated in a certificate course on "Object Oriented Analysis and Design using UML with Essentials Rational Software Architect" organized by IBM Software Education on 20th April 2011 to 26th April 2011. 9. Participated in "Empowering Teachers for Enhancing SC/ST Students Employability" funded by TAHDCO and organized by Center for University Industry Collaboration, Anna University Chennai during the period from 03.05.2010 to 07.05.2010 held at R.M.K Engineering College, Gummidipoondi, Thiruvallur. 10. Participated in the Amritapuri Site Asia Region Onsite Contest held in AMIRTA University on November 1 2009.
17	Funds Received from AICTE,/ UGC / DST/ TNSCST, etc: <hr/> Nil
18	Contribution to the Department :

	<p>Acted as Class Coordinator</p> <p>Acted as a Resource Person</p> <p>Acted as a Session Chair for Conference</p> <p>Acted as Inplant Training Coordinator</p> <p>Acted as Alumni coordinator</p> <p>Acted as Symposium Coordinator</p> <p>Acted as Seminar and Workshop Coordinator</p> <p>Acted as Criteria 8 In-charge for NBA</p> <p>Acting as Industrial Visit Coordinator</p> <p>Acting as International Conference Organizing Secretaries</p> <p>Acting as EAC coordinator</p> <p>Acting as Criteria 4 In-charge for NBA</p> <p>Acting as Criteria 1 In-charge for NAAC</p> <p>Acting as Code club Coordinator</p> <p>Acting as CSI Coordinator</p> <p>Acting as Oracle Trainer</p> <p>Acting as AWS Coordinator</p> <p>Acting as Course Coordinator</p> <p>Acting as Content Moderator</p>
18	Contribution to the College :
	<p>Acting as CSI coordinator</p> <p>Acting as Anna University Theory Exam Cell Member</p> <p>Acting as Youth Talk Coordinator</p> <p>Working for Best Accredited Student Branch Award from CSI (Every Year)</p> <p>Acting as Various Committees in college level events.</p>
20	Any other relevant information:

	<ol style="list-style-type: none"> 1. Acted as Institutional Ambassador of IFERP 2. Received Longest Continuous SBC award from Computer Society of India on Jan 2018 3. Received Best Teacher Award from Technical Research Publications on Oct 2020 4. Received Research Excellence Award 2020 for publishing paper in Neural computing and application from Institute of Scholars on Dec 2020 5. Received Active Participation (SBC) Award in CSI Activities Award 2021-2022 from CSI Kancheepuram Chapter on 30.03.2022. 6. Received Active Participation (SBC) Award in CSI Activities Award 2022-2023 from CSI Kancheepuram Chapter on 26.04.2023. 7. Received Innovative Project Award in CSI Activities Award 2022-2023 from CSI Kancheepuram Chapter on 26.04.2023. 8. Received Academic Excellence Award in National Faculty Award 2023-2024-Novel Research Academy on 10.11.2023 9. Acting as Board Study Member of Department of Computer Engineering, St. Vincent Pallotti College of Engineering & Technology, Nagpur from 2025
21	<p>Books Published</p> <ol style="list-style-type: none"> 1. Richa, Aashish. A. Gadgil, Abhijeet Das, P. Ashokkumar, Neha Munjal, J. K. Periasamy, published a book chapter titled, 'Blockchain Integration for Smart City Infrastructure: Advancing Urban Connectivity and Security' in the book Non-Fungible Tokens (NFTs) in Smart Cities: Advancements and Security Challenges by IGI Global 2025, ISBN13: 9798369388761 (SCOPUS INDEXED) https://www.igi-global.com/chapter/blockchain-integration-for-smart-city-infrastructure/386804 2. Richa, Aashish. A. Gadgil, Abhijeet Das, P. Ashokkumar, Neha Munjal, J. K. Periasamy, published a book chapter titled, 'Advancements in Filtration Technologies for Air and Water Pollution Control' in the book Environmental Applications of Carbon-Based Materials by IGI Global 2025, ISBN13: 979836938878 (SCOPUS INDEXED) https://www.igi-global.com/chapter/advancements-in-filtration-technologies-for-air-and-water-pollution-control/354535 3. N Venkateswaran, A Srinivasa Reddy, B Uma Maheswari, P Suthanthira Devi, M Aishwarya, JK Periasamy, published a book chapter titled, 'AR-VR Enabled Personalized Vehicle Exploration for Urban Mobility and Smart City Development' in the book Virtual and Augmented Reality

Applications in the Automobile Industry by IGI Global 2025, ISBN13: 979836938878
(SCOPUS INDEXED)

<https://www.igi-global.com/chapter/ar-vr-enabled-personalized-vehicle-exploration-for-urban-mobility-and-smart-city-development/378015>

4. JK Periasamy, Kunduru Srinivasulu Reddy, Prachi Rajendra Salve, S Ushasukhanya, TYJ Naga Malleswari, published a book chapter titled, ‘**AI-Driven Disaster Forecasting by Integrating Smart Technology**’ in the book **Edible Electronics for Smart Technology Solutions** by IGI Global 2025, ISBN13: 9798369355732 **(SCOPUS INDEXED)**
<https://www.igi-global.com/chapter/ai-driven-disaster-forecasting-by-integrating-smart-technology/360269>
5. Published a book chapter titled, ‘**Advancements in Filtration Technologies for Air and Water Pollution Control**’ in the book **Environmental Applications of Carbon-Based Materials** by IGI Global 2024, ISBN13: 9798369336250 **(SCOPUS INDEXED)**
<https://www.igi-global.com/chapter/ai-driven-disaster-forecasting-by-integrating-smart-technology/360269>
6. Published a book chapter titled, ‘**Synergizing federated learning and in-memory computing: An experimental approach for drone integration**’ in the book **Developments Towards Next Generation Intelligent Systems for Sustainable Development** by IGI Global **(SCOPUS INDEXED)**
<https://www.igi-global.com/chapter/synergizing-federated-learning-and-in-memory-computing/343775>
7. Published a Book “Data Science and Machine Learning using Python” by RK Publications Nov 2023, ISBN: 978-81-967266-8-3
<https://drive.google.com/file/d/1bmhG3crvjtIdO8ISDoJl2V6b4p5XW4ls/view?usp=sharing>
8. Published a book “Mobile App Development: A Practical Guide to Building Successful Apps” by Notion press, Dec 2023, ISBN: 9798892330121
<https://www.flipkart.com/mobile-app-development/p/itm07bd6a771a86f?pid=9798892330121&affid=editornoti&affid=editornoti>
9. Published a book “Internet Web Technology” by Scientific International publications press, Jun 2023, ISBN: 978-93-5757-587-4

https://www.flipkart.com/internet-web-technology/p/itmd3633a41622a0?pid=9789357575874&lid=LSTBOK9789357575874RIINMO&marketplace=FLIPKART&cmpid=content_book_8965229628_gmc

10. Published a book chapter titled, '**Framework for communication between teachers and students based on RFID**' in the book **Recent Trends in Intelligent Automation and Computing Techniques** by Dipti Press Pvt Ltd., Mar 2023. ISBN 978-93-94639-07-2.
<https://drive.google.com/file/d/1jYHmaGDrRwFy-g8ZjPZQA0w4iGdgrcRi/view>
11. Published a book chapter titled, '**Fog-Computing: A Novel Approach for Cloud-Based Devices Using Perceptual Cloning Manifestation-PerColNif Taxonomy by Energy Optimization**' in the book **Energy Conservation Solutions for Fog-Edge Computing Paradigms** by Springer 2022. **(SCOPUS INDEXED)**
https://link.springer.com/chapter/10.1007/978-981-16-3448-2_6#:~:text=The%20cache%20processing%20mechanism%20is,10%5D%20work%20of%20Health%20care
12. Published a book chapter titled, '**A Blockchain Oriented Hybrid Architecture for the Protection of Privacy**' in the book titled '**Cloud Computing with Wireless Network and Pattern Recognition**' ISBN 978-81-952585-3-6, Dipti Press Pvt. Ltd, Jun, 2021
13. Published a book chapter titled, '**Artificial Intelligence**' in the book titled '**Emerging Technologies in Engineering Research**' ISBN: 978-93-5419-211-1 (Online), Technical Research Publications, Oct 2020.
<https://drive.google.com/drive/u/4/search?q=Artificial%20Intelligence>
14. Published a book chapter titled, "**Technical Analysis on Spammer detection using Machine Learning and data mining techniques**" in the Book "**Machine Learning and Applications**". ISBN: 978-93-86923-47-9, Publisher: Dipti Press OPC Pvt Ltd. Chennai. Sep 2020.