Dr Nalini M

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Phone: 04422512220 / 9600595175
Address: Kanchipuram , Tamil Nadu , India - 600044
ORCID ID: 0000-0001-6457-7990
Profile URL: https://sairam.irins.org/profile/178477

AREAS OF EXPERTISE

Biomedical Engineering

Expertise in Developing Biomedical innovations using Artificial Intelligence

EDUCATION

Ph.D *2019*

Sri Chandrasekharendra Saraswathi Vishwa Mahavidyalaya

M. Tech *2009*

Sathyabama university

B.E *2004*

Arulmigu Meenakshi Amman College of Engineering

Domain Scholar *2025*

SWAYAM NPTEL

Domain Scholar *2025*

SWAYAM NPTEL

PROFESSIONAL EXPERIENCE

Sri Sai Ram Engineering College *2019 - Present*

Professor

Kanchipuram

Sri Sai Ram Engineering College *2017 - 2019*

Associate Professor

Kanchipuram

Sri Sai Ram Engineering College *2010 - 2017*

Assistant Professor

Kanchipuram

Adhiparasakthi College of Engineering *2010 - 2010*

Lecturer

Ranipet

Indira Gandhi College of Engineering and Technology for Women *2008 - 2010*

Lecturer

Kanchipuram

Murugappa Polytechnic College *2004 - 2008*

Lecturer

Chennai

RESEARCH PROJECTS

Detection of Parkinson disease using voice changes and hand tremor
Role: Project Guide

Year: 2021 | Amount: 40000

Short Term Training Program
Role: PI

Year: 2020 | Amount: 397667

Lactopure
Role: Guide

Year: 2017 | Amount: 100000

HONOURS AND AWARDS

Academic Excellence Award *2025*

Awarded by: Institution of Engineers (India) [IEI]

NPTEL DISCIPLINE STAR *2025*

Awarded by: SWAYAM NPTEL

NPTEL BELIEVER *2024*

Awarded by: SWAYAM NPTEL

NPTEL ENTHUSIASTS *2024*

Awarded by: SWAYAM NPTEL

Top Performing Mentor *2023*

Awarded by: SWAYAM NPTEL

ATAL CONSISTENT MENTOR *2021*

Awarded by: AICTE

Research Aspiration award *2020*

Awarded by: International journal for modern trends in science and engineering

Best woman faculty *2019*

Awarded by: Novel research Academy

Best Paper Award *2017*

Awarded by: Institution of Electronics and Telecommunication Engineers, Bangalore

Best Teacher Award *2014*

Awarded by: Sairam Institutions

PROFESSIONAL MEMBERSHIPS

IEEE *2022*
Senior Member

IEEE SIGHT *2022*
MEMBER

IFERP *2019*
MEMBER

ISTE *2018*
Lifetime membership

International Institute of Organized Research *2018*
MEMBER

COMMITTEE MEMBERSHIPS

Editorial Board Member *2025*
Deep Science Publishing

National Conference on Applications of Artificial Intelligence in Healthcare and Communication Technologies *2022*
Advisory committee member

International Conference on Arts and Cultural 2022 *2022*
Technical Reviewer

virtual conference on smart computing and advanced communication 21 *2021*
Advisory Committee member

Department Board of Studies *2021*
Coordinator

International Conference on Computing, communication and control *2020*

Steering committee Member

"American Journal of Science, Engineering and Technology(AJSET); *2020*

Editorial Board member

PUBLICATIONS

1. **Ethical Challenges in AI Decision-Making: From the User's Perspective**
   Nalini M.;Sandhya S.;Shiwani S.
   Ethical Decision Making Using Artificial Intelligence Challenges Solutions and Applications , Vol. (2025) , pp. 79-98

2. **Knowledge-infused learning: A roadmap to autonomous vehicles**
   Nalini M.;Kavya K.;Venkatraman A.;Aishwaryalakshmi G.
   Knowledge Graph Based Methods for Automated Driving , Vol. (2025) , pp. 119-138

3. **Hardware Implementation of Reconfigurable Intelligent Surfaces: Applications and Research Challenges**
   Nalini M.;Sakthi S.R.V.K.;Praveen R.V.;Kumar R.
   Applications and Challenges of Reconfigurable Intelligent Surfaces in 6g , Vol. (2025) , pp. 19-46

4. **Exergy-based improvements and waste exergy emissions in sustainable aviation fuels: a pathway to enhanced energy efficiency and environmental sustainability**
   Panda S.;Ramasamy D.;Subramanian S.;Nalini M.
   International Journal of Exergy , Vol. 47 (2025) , pp. 279-298

5. **Reliability and ethics developments in knowledge graphs for automated driving**
   Nalini M.;Venkatraman A.;Harini D.;Aishwaryalakshmi G.
   Knowledge Graph Based Methods for Automated Driving , Vol. (2025) , pp. 79-98

6. **Knowledge Graph-Based Methods for Automated Driving**
   Dhanaraj R.K.;Nalini M.;Sathyamoorthy M.;Mohaisen M.
   Knowledge Graph Based Methods for Automated Driving , Vol. (2025) , pp. 1-411

7. **Applications and Challenges of Reconfigurable Intelligent Surfaces in 6G**
   Nalini M.;Sathyamoorthy M.;Dhanaraj R.K.
   Applications and Challenges of Reconfigurable Intelligent Surfaces in 6g , Vol. (2025) , pp. 1-482

8. **Computer Vision-Based Innovations for Smart Agriculture and Crop Surveillance: Evolution, Trends, and Future Challenges**
   Nalini M.;Bhuvaneswari B.Y.
   Computer Vision in Smart Agriculture and Crop Management , Vol. (2025) , pp. 1-23

9. **Bot-Based Process Triggering by Incoming E-mails and Documents**
   Nalini M.;Dhanraj R.K.;Balusamy B.;Abirami V.;Kavya K.;Aishwaryalakshmi G.
   Hyperautomation for Next Generation Industries , Vol. (2025) , pp. 177-205

10. **Detection of diabetic retinopathy severity from fundus images: DCNN**
    Kumar T.S.;Muthalagu R.;Sundari L.M.;Nalini M.
    International Journal of Medical Engineering and Informatics , Vol. 17 (2025) , pp. 195-206

11. **Role of knowledge graph-based methods in human—AI systems for automated driving**

    Panda S.;Kakade K.S.;Nalini M.;Degadwala S.

    Knowledge Graph Based Methods for Automated Driving , Vol. (2025) , pp. 99-118

12. **Intelligent Assistants Using Natural Language Processing for Hyperautomation**

    Nalini M.;Dhanraj R.K.;Balusamy B.;Abirami V.;Kavya K.

    Hyperautomation for Next Generation Industries , Vol. (2025) , pp. 91-126

13. **Hyperautomation for Next-Generation Industries**

    Dhanaraj R.K.;Nalini M.;Daniel A.;Bashir A.K.;Balusamy B.

    Hyperautomation for Next Generation Industries , Vol. (2025) , pp. 1-328

14. **Case studies and application for energy-efficient federated learning in IoT**

    Nalini M.;Jayasri S.;Nagammai S.;Arockiam D.

    Energy Optimization and Security in Federated Learning for Iot Environments , Vol. (2025) , pp. 243-271

15. **Novel AI-Dependent Intrusion Detection System for IoT-Enabled Smart City Applications**

    Nalini M.;Priyadharshini R.S.;Keerthana C.V.;Bharathi N.P.D.

    Lecture Notes in Networks and Systems , Vol. 972 (2024) , pp. 335-347

16. **Automated Anemia Detection Through Fingernail Image Analysis**

    Geetha A.;Stanley M.;Anuradha S.;Maya P.R.;Nalini M.;Sriharipriyan P.

    4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpects 2024 , Vol. (2024) , pp.

17. **Augmentation of Emotional Intelligence - A Reservoir Computing Driven, EEG-Based Analysis**

    Bommi R.M.;Uganya G.;Nalini M.;Naga Shivani S.;Gayathri K.

    4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpects 2024 , Vol. (2024) , pp.

18. **Advanced Integrated Prosthetic Ankle**

    Nalini M.;Praveen Ragavesh V.;Akash B.V.;Sakthi Sabapathy Raja V.K.;Abishek B.

    2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024 Proceedings , Vol. (2024) , pp.

19. **AI-based Fingerprint and Voice Recognition Systems**

    Nalini M.;Suveka S.;Bukhari S.A.C.

    AI Based Advancements in Biometrics and Its Applications , Vol. (2024) , pp. 101-117

20. **Industry automation: The contributions of artificial intelligence (AI)**

    Nalini M.

    Industry Automation the Technologies Platforms and Use Cases , Vol. (2024) , pp. 25-55

21. **Facial emotion recognition and expression in Parkinson's disease affected persons**

    Mukil A.;Nalini M.;Sathish K.S.;Sivakumar S.

    Aip Conference Proceedings , Vol. 3161 (2024) , pp.

22. **AI-Powered Drones for Healthcare Applications**

    Nalini M.

    Artificial Intelligence for Autonomous Vehicles , Vol. (2024) , pp. 131-149

23. **Performance Analysis of Fast Fourier Transforms Using Binary Signed Digit Number System**

    Kinol A.M.J.;Bommi R.M.;Uganya G.;Nalini M.

4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpects 2024 , Vol. (2024) , pp.

24. **Electrolyte Enriched IV Bottle**

Gayathiri R.;Nalini M.;Rajapandian B.;Ganthni K.R.;Maheshwari K.;Jayasri S.

4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpects 2024 , Vol. (2024) , pp.

25. **Industry Automation: The Technologies, Platforms and Use Cases**

Pethuru Raj;Abhishek Kumar;Ananth Kumar;Neha Singhal

Industry Automation: The Technologies, Platforms and Use Cases (2024)

26. **Intelligent Fruits and Vegetables Storage Management System for Warehouse and Cold Storage**

Velavan L.;Stanley M.;Nalini M.;Sandhya S.;Shiwani S.

4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpects 2024 , Vol. (2024) , pp.

27. **Deep Learning-Based Classification of Skin Lesions for Early Melanoma Detection**

Bommi R.M.;Kinol A.M.J.;Uganya G.;Nalini M.

4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpects 2024 , Vol. (2024) , pp.

28. **IOT-Based Advanced Energy Management in Smart Factories**

Nalini M.;Varadharajan D.;Natarajan N.;Umasankar Y.

Cyber Physical Energy Systems , Vol. (2024) , pp. 183-216

29. **Enhancing Quantum Key Distribution Protocols with Machine Learning Techniques**

Bommi R.M.;Nalini M.;Vijayaraj N.;Kinol A.M.J.

2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

30. **Analysis of 2.4 GHz Circular Patch Antenna on FR4 Substrate for Wi-Fi and Bluetooth: Exploring Reflection Coefficient, Gain, VSWR, and Current Density Characteristics**

Intelligent Computing and Control for Engineering and Business Systems (ICCEBS) (2023)

31. **Performance Analysis of Brain Tumor Identification by Segmentation of Magnetic Resonance Images using KNN and CNN**

Uganya G.;Kinol A.M.J.;Nalini M.;Bommi R.M.

Iet Conference Proceedings , Vol. 2023 (2023) , pp. 294-298

32. **Comprehensive Flank Wear Prediction in Cutting Tools Using the FlaPix Algorithm**

Bommi R.M.;Uganya G.;Kinol A.M.J.;Nalini M.

Iet Conference Proceedings , Vol. 2023 (2023) , pp. 284-289

33. **Evaluating the Predictive Accuracy and Precision of AlexNet and Linear Regression for Women's Education Post-Independence**

Mary Joy Kinol A.;Bommi R.M.;Nalini M.;Uganya G.

2nd International Conference on Automation Computing and Renewable Systems Icacrs 2023 Proceedings , Vol. (2023) , pp. 1110-1114

34. **Evaluating the Predictive Accuracy and Precision of AlexNet and Linear Regression for Women's Education Post-Independence**

Kinol, A.M.J.;Bommi, R.M.;Nalini, M.;Uganya, G.

International Conference on Automation, Computing and Renewable Systems (ICACRS) (2023)

35. **Intelligent Diagnostic System for Early stage prediction of Diabetes**

    Nalini M.;Bommi R.M.;Uganya G.;Kinol A.M.J.

    Iet Conference Proceedings , Vol. 2023 (2023) , pp. 218-223

36. **Smart Traffic Control System with Ambulance Detection Using Image Processing**

    Nalini M.;Sandhya S.;Shiwani S.;Charumathi S.;Maharajothi G.

    2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

37. **Analysis of 2.4 GHz Circular Patch Antenna on FR4 Substrate for Wi-Fi and Bluetooth: Exploring Reflection Coefficient, Gain, VSWR, and Current Density Characteristics**

    Intelligent Computing and Control for Engineering and Business Systems (ICCEBS) (2023)

38. **Impact of internet of things and digital twin on manufacturing era**

    Nalini M.;Bharathkumar M.R.;Keerthivasan R.;Nithyashree N.;Dhanashree V.

    Digital Twin for Smart Manufacturing , Vol. (2023) , pp. 185-202

39. **Analysis of 2.4 GHz Circular Patch Antenna on FR4 Substrate for Wi-Fi and Bluetooth: Exploring Reflection Coefficient, Gain, VSWR, and Current Density Characteristics**

    Kinol, A.M.J.;Bommi, R.M.;Vijayaraj, N.;Nalini, M.

    Intelligent Computing and Control for Engineering and Business Systems (ICCEBS) (2023)

40. **Anemia Detection Through Image Analysis and Image Processing**

    Nalini, M.;Sriharipriyan, P.;Matheswaran, P.;Vikash, K.V.;Sudharsan, M.

    Intelligent Computing and Control for Engineering and Business Systems (ICCEBS) (2023)

41. **Analysis of 2.4 GHz Circular Patch Antenna on FR4 Substrate for Wi-Fi and Bluetooth: Exploring Reflection Coefficient, Gain, VSWR, and Current Density Characteristics**

    Intelligent Computing and Control for Engineering and Business Systems (ICCEBS) (2023)

42. **Myocardial Analysis by Breathalyzer**

    Gayathiri R.;Nalini M.;Srividya K.;Kavya K.R.;Azhagu Meenal P.;Dharanidevi S.

    2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

43. **IOT based real time water level flow consumption meter**

    Gayathiri, R.;Nalini, M.;Abirami, K.;Jessica, D.S.A.;Bavithra, M.

    AIP Conference Proceedings (2023)

44. **Myocardial Analysis by Breathalyzer**

    R, G.;M, N.;K, S.;R, K.K.;P, A.M.;S, D.

    Intelligent Computing and Control for Engineering and Business Systems (ICCEBS) (2023)

45. **Parkinson's Disease Detection by Machine Learning**

    Nalini, M.;Kinol, M.J.;M, B.R.;Vijayaraj, N.

    Intelligent Computing and Control for Engineering and Business Systems (ICCEBS) (2023)

46. **Revamped Surveillance Rover**

    Nalini, M.;Dhanashree, V.;Keerthivasan, R.;Kumar, M.R.

    Intelligent Computing and Control for Engineering and Business Systems (ICCEBS) (2023)

47. **Smart traffic control system with ambulance detection using image processing**

    M., N.;S., S.;S., S.;S., C.;G., M.

    Intelligent Computing and Control for Engineering and Business Systems (ICCEBS) (2023)

48. **IOT based real time water level flow consumption meter**

Gayathiri R.;Nalini M.;Abirami K.;Jessica D.S.A.;Bavithra M.

Aip Conference Proceedings , Vol. 2822 (2023) , pp.

49. **Smart Traffic Control System with Ambulance Detection Using Signal Processing**

Nalini M.;Velavan L.;Yogabhuvaneswari U.

2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

50. **Analysis of 2.4 GHz Circular Patch Antenna on FR4 Substrate for Wi-Fi and Bluetooth: Exploring Reflection Coefficient, Gain, VSWR, and Current Density Characteristics**

Kinol A.M.J.;Bommi R.M.;Vijayaraj N.;Nalini M.

2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

51. **Investigations on Structural, Magnetic and Electrical Properties of Fe3O4 Nanoparticles**

Geetha V.T.;Selvakumar C.;Amirthavarshini T.;Govindaraju C.;Nalini M.

2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

52. **Parkinson's Disease Detection by Machine Learning**

Nalini M.;Kinol M.J.;Bommi R.M.;Vijayaraj N.

2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

53. **UV-Disinfectant Robot Using Bluetooth**

Stanley M.;Geetha A.;Maya P.R.;Velavan L.;Nalini M.

2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

54. **Smart Glove for Impaired People to Convert Sign into Voice with Text**

Vijayaraj N.;Nalini M.;Kinol A.M.J.;Bommi R.M.

2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

55. **Revamped Surveillance Rover**

Nalini M.;Dhanashree V.;Keerthivasan R.;Kumar M.R.B.

2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

56. **Anemia Detection Through Image Analysis and Image Processing**

Nalini M.;Sriharipriyan P.;Matheswaran P.;Vikash K.V.;Sudharsan M.

2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023 , Vol. (2023) , pp.

57. **Detection of Parkinson's Disease Using Voice Changes and Hand-tremor**

Nalini, M.;Gayathiri, R.;Srimathi, R.;Vidyathmikaa, R.;Jenifer, S.

International Conference on Communication, Computing and Internet of Things (IC3IoT) (2022)

58. **An Investigation Report on Spoting and Diagnosing Diseases from the Images of Brain by Convolutional Neural Network Method Using Fusion Support Vector Machine**

(2022)

59. **Detection of Parkinson's Disease Using Voice Changes and Hand-tremor**

Nalini M.;Gayathiri R.;Srimathi R.;Vidyathmikaa R.;Jenifer S.

2022 International Conference on Communication Computing and Internet of Things Ic3iot 2022 Proceedings , Vol. (2022) , pp.

60. **Glance Of Wireless Sensor Network**

    R Gayathiri, M Nalini
    Elementary Education Online , Vol. 19 (2022) , pp. 6658-6658

61. **Brain Tumor Detection Using Soft Computing**

    (2022)

62. **An Investication Report on Spoting and Diagnosing Diseases from the Images of Brain by Convolutional Neural Method Using Fusion Support Vector Machine**

    Gayathiri R.;Suganthi S.;Nalini M.;Premalatha S.;Archana R.;Varshanambiar M.
    3rd International Conference on Power Energy Control and Transmission Systems Icpects 2022 Proceedings , Vol. (2022) , pp.

63. **Brain Tumor Detection Using Soft Computing**

    Gayathiri R.;Suganthi S.;Nalini M.;Varsha N.M.;Archana R.;Nivetha M.
    3rd International Conference on Power Energy Control and Transmission Systems Icpects 2022 Proceedings , Vol. (2022) , pp.

64. **Automatic Optimized Voice Based Gender Identification for Speech Recognition**

    Nalini M.;Gayathiri R.;Abirami V.;Aishwarya Lakshmi G.;Harini D.
    3rd International Conference on Power Energy Control and Transmission Systems Icpects 2022 Proceedings , Vol. (2022) , pp.

65. **An Investigation Report on Spoting and Diagnosing Diseases from the Images of Brain by Convolutional Neural Network Method Using Fusion Support Vector Machine**

    Gayathiri R.;Suganthi S.;Nalini M.;Premalatha S.;Archana R.;Varsha Nambiar M.
    3rd International Conference on Power Energy Control and Transmission Systems Icpects 2022 Proceedings , Vol. (2022) , pp.

66. **Application of IoT with PIR and Air Quality Gas Sensors for Classrooms and Buildings**

    Nalini M.;Venkatraman A.;Harini D.;Kavya K.;Perreira C.J.;Aishwaryalakshmi G.
    3rd International Conference on Power Energy Control and Transmission Systems Icpects 2022 Proceedings , Vol. (2022) , pp.

67. **M-Health Technology Using IOT**

    Gayathiri R.;Nalini M.;Prabha R.;Nambiar Varsha M.;Archana R.;Nivetha M.
    Proceedings of the 2021 4th International Conference on Computing and Communications Technologies Iccct 2021 , Vol. (2021) , pp. 197-199

68. **Enhanced Quality Analysis of Fuel Tank Using Pressure Drop Method Using PLC and SCADA**

    Nalinil, M.;Gayathiri, R.;Abirami, V.;Aishwarya lakshmi, G.;Harini, D.
    Annual SEMI Advanced Semiconductor Manufacturing Conference (ASMC) (2021)

69. **Enhanced Quality Analysis of Fuel Tank Using Pressure Drop Method Using PLC and SCADA**

    Nalinil M.;Gayathiri R.;Abirami V.;Aishwarya Lakshmi G.;Harini D.
    Proceedings of the 2021 4th International Conference on Computing and Communications Technologies Iccct 2021 , Vol. (2021) , pp. 444-447

70. **Eye power and pressure detection using MEMS sensor**

    Nalini, M.;Gayathiri, R.;Ajitha, K.;Kirthika, S.

Materials Today: Proceedings (2021)

71. **M-Health Technology Using IOT**

   Gayathiri, R.;Nalini, M.;Prabha, R.;Nambiar Varsha, M.;Archana, R.;Nivetha, M.
   International Conference on Computing and Communications Technologies (ICCCT) (2021)

72. **Hand gesture base bore well rescue robot**

   Gayathiri, R.;Nalini, M.;Archana, R.;Nambiar, M. Varsha;Kishore, S.
   Materials Today: Proceedings (2021)

73. **IoT based smart medicine kit**

   Nalini, M.;Abirami, V.;Lakshmi, G. Aishwarya;Harini, D.
   Materials Today: Proceedings (2021)

74. **Glimpse of wireless sensor networks**

   varsha nambiarm R. Gayathiri, Dr. M. Nalini, Nivetha. m, archana. r
   llkogretim online , Vol. 19 (2020) , pp. 6658-6664

75. **Review on mobile application as a farmer's companion** *Dr.*
   M. Nalini, r. gayathiri, abirami. v, aishwarya lakshmi, harini d
   llkogretim online , Vol. 19 (2020) , pp. 1722-1726

76. **SELF MEDICATION FOR DIABETES MELLITUS USING MACHINE LEARNING**

   Sivanesan R Dr.M.Nalini, Santhosh S, Hariharan.S, Sathiyasundar T
   JOURNAL OF CRITICAL REVIEWS , Vol. 7 (2020) , pp. 822-824

77. **Developing a model based on meal-detection in patients for type-1 diabetes using factorial switching Kalman filter**

   Gayathiri R.;Nalini M.;Varsha Nambiar M.;Archana R.
   Materials Today Proceedings , Vol. 46 (2020) , pp. 4190-4194

78. **Eye power and pressure detection using MEMS sensor**

   Nalini M.;Gayathiri R.;Ajitha K.;Kirthika S.
   Materials Today Proceedings , Vol. 46 (2020) , pp. 3772-3774

79. **IoT based smart medicine kit**

   Nalini M.;Abirami V.;Aishwarya Lakshmi G.;Harini D.
   Materials Today Proceedings , Vol. 46 (2020) , pp. 4125-4127

80. **Hand gesture base bore well rescue robot**

   Gayathiri R.;Nalini M.;Archana R.;Varsha Nambiar M.;Kishore S.
   Materials Today Proceedings , Vol. 46 (2020) , pp. 4203-4206

81. **A straight forward solution for visually impaired using smart assistive navigation and accessibility system**

   Nalini M.;Gayathiri R.
   International Journal of Innovative Technology and Exploring Engineering , Vol. 9 (2019) , pp. 4530-4534

82. **Vehicle ignition override system to avoid drunken drive**

   Gayathiri R.;Nalini M.
   International Journal of Innovative Technology and Exploring Engineering , Vol. 9 (2019) , pp. 4769-4771

83. **Rescue Robot**

   Srinivasan K , Bhavan S , Gireesh Shankar B, Ragul S
   .An International Open Access Journal & UGC - JETIR , Vol. (2019) , pp.

84. **Pollution monitoring system enabled with IoT**

Dr. M. Nalini, Ajitha. K, Kirthika. S, C. Sivakumaran

Journal of the Gujarat Research society , Vol. 21 (2019) , pp. 2142

85. **Preface**

Wani S.H.

Recent Approaches in Omics for Plant Resilience to Climate Change , Vol. (2019) , pp. xi

86. **'Lacto pure'-Electrochemical purification of milk**

Nalini M.;Vani R.;Varsha R.

Journal of Advanced Research in Dynamical and Control Systems , Vol. 10 (2018) , pp. 673-675

87. **Blood glucose regulation using labview**

M Nalini

International Journal of Chemical & Material Sciences (2018)

88. **Blood glucose regulation system using model predictive controller**

Nalini M.;Balaji V.;Kumar V.;Priya R.;Ulaganayaki A.;Priya S.S.

IEEE International Conference on Innovations in Green Energy and Healthcare Technologies 2017 Igeht 2017 , Vol. (2017) , pp.

89. **Energy harvesting and management from ambient RF radiation**

Nalini M.;Kumar J.V.N.;Kumar R.M.;Vignesh M.

IEEE International Conference on Innovations in Green Energy and Healthcare Technologies 2017 Igeht 2017 , Vol. (2017) , pp.

90. **Controlling of blood glucose including the effect of ffa dynamics**

Nalini M.;Balaji V.

Pakistan Journal of Biotechnology , Vol. 14 (2017) , pp. 14-16

91. **Non-conventional energy harvesting using foot pressure**

Nalini M.;Krithika A.;Shruti B.;Rakshana C.V.

Pakistan Journal of Biotechnology , Vol. 14 (2017) , pp. 72-74

92. **Emergency alert for caged animals**

Nalini M.;Mathangi A.;Jayashri K.R.;Nivedha J.K.

Pakistan Journal of Biotechnology , Vol. 14 (2017) , pp. 106-108

93. **Efficient control of glucose level in blood using different pid tuning techniques**

Nalini M.;Balaji V.

Journal of Advanced Research in Dynamical and Control Systems , Vol. 2017 (2017) , pp. 620-625

94. **Non invasive heart rate monitoring system for detecting abnormalities in fetal**

M. Nalini, R. Janani, P. Sumithra

International conference on Engineering and Technology ICET17 , Vol. (2017) , pp.

95. **Wearable real time health and security monitoring scheme for sports person**

Gayathiri R.;Nalini M.

Journal of Advanced Research in Dynamical and Control Systems , Vol. 9 (2017) , pp. 551-557

96. **Closed loop model for blood glucose regulation system using labview**

Nalini M.;Balaji V.;Gayathiri R.

International Journal of Control Theory and Applications , Vol. 9 (2016) , pp. 205-210

NPTEL Courses:

- Completed successfully 8 weeks course on Fiber Optics
- Completed successfully 8 weeks course as well as FDP on Biomedical Nanotechnology
- Completed successfully with Elite, 8 weeks course as well as FDP on Hardware modeling using Verilog
- Completed successfully with Elite, 8 weeks Course as well as FDP Body language a professional key to success
- Completed Successfully with Elite, 8 weeks Course as well as FDP on Introduction to Internet of Things
- Completed Successfully with Elite, 8 weeks Course as well as FDP on Digital CMOS VLSI Design
- Completed Successfully with Elite, 12 weeks Course as well as FDP on Patent Law for Engineers and Scientists
- Completed Successfully with Elite, 12 weeks Course as well as FDP on Dairy and Food Process and Products Technology
- Completed Successfully with Elite, 12 weeks Course on Data Analytics with Python
- Completed Successfully with Elite + Gold, 12 weeks Course on Education for Sustainable Development
- Completed Successfully with Elite, 12 weeks Course on Business Intelligence & Analytics
- Completed Successfully with Elite + Silver, 12 weeks Course on Introduction to Professional Scientific Communication
- Completed Successfully with Elite on Teaching And Learning in Engineering (TALE)
- Completed Successfully with Elite + Silver, 12 weeks Course on Ethics in Engineering Practice
- Completed Successfully with Elite, 12 weeks Course on Learning Analytics Tools
- Completed Successfully with Elite, 12 weeks Course on Introduction to Industry 4.0 and Industrial Internet of Things
- Completed Successfully with Elite, 12 weeks Course on Introduction To Machine Learning -IITKGP
- Completed successfully 12 weeks Course on Deep Learning - IIT Ropar
- Completed Successfully with Elite, 12-week Course on Effective Engineering Teaching In Practice
- Completed Successfully with Elite, 12-week Course on Python for Data Science
- Completed Successfully with Elite, 12-week Course on Accreditation And Outcome Based Education

Workshops Attended:

- Three day workshop on Process Automation using MATLAB conducted by Intellectz Tech at Sri Sairam Engineering College, Chennai.
- One day Workshop on Instrumentation Detail Engineering Workshop conducted by Trend Instrumentation and Automation Pvt Ltd at Sri Sairam Engineering College, Chennai.
- One day Workshop on Virtual Instrumentation Using Labview at St.Joseph's Engineering College, Chennai.
- Two days Workshop on VLSI Design Methodology &Tools at Sri Sairam Engineering College, Chennai.
- Two day Workshop on Industrial Automation at Sri Sairam Engineering College, Chennai.
- Two day Workshop on Smart Sensors for Industrial Applications at Sri Sairam Engineering College, Chennai.
- One day workshop on Intellectual Property Rights and Innovations at Sri Sairam Engineering College, Chennai.
- Two day workshop on Deep Learning and Image Processing For Medical and Industrial Control Applications at GKM College of Engineering and Technology, Chennai.

FDPs/SDPs Attended:

- 7 day Faculty Development Programme Process Control at Madras Institute of Technology.
- 7 day Faculty Development Programme Process Control at Sri Sairam Engineering College.
- 7 day Faculty Development Programme on Microcontroller Based System Design at Sri Sairam Institute of Technology.
- 7 days Faculty Development Programme on Embedded and Real time Systems Sri Sairam Engineering College.
- 14 days Faculty Development Programme on Robotics Technology for Manufacturing at Madras Institute of Technology, Chennai.
- 7 day Faculty Development Programme on Work Life Balance for Engineering & Management Faculty at Sri Sairam Engineering College, Chennai.
- 1 day Faculty Development Programme on Role of Academic Excellence in Developing World Class Higher Learning Institutions and Faculties at Sri Sairam Institute Of Management Studies, Chennai.
- 2 day Faculty Development Programme on LabView Programming at SCSVMV University, Kanchipuram.
- 5 day Faculty Development Programme on Engineering Teaching Pedagogy and Effective Learning Process at Sri Sairam Institute of Management Studies.
- 5 day Faculty Development Programme on Artificial Intelligence at Sri Sairam Engineering College, Chennai.
- 6 day Faculty Development Programme on Machine Learning and Data Manipulation using R and SQL at Sri Sairam Engineering College, Chennai
- 5 day Online Short Term Course on Neural Networks and CNN conducted by NITTTR Chandigarh
- 5 day Online Short Term Course on Image and Embedded Processing conducted by NITTTR Chandigarh
- 5 day Online ATAL FDP on Artificial Intelligence conducted by IIIT, Nagpur.
- One Week online FDP on Scilab conducted by Geetanjali Institute of Science and Technology, Nellore in association with Spoken Tutorial IIT Bombay.
- One Week Online FDP on Biopython conducted by Sathyabama Institute of Science and Technology in association with Spoken Tutorial IIT Bombay.
- One Week Online FDP on Arduino conducted by Prakasam Engineering College, AP in association with Spoken Tutorial IIT Bombay.
- One Week Online FDP on R Programming conducted by Prakasam Engineering College, AP in association with Spoken Tutorial IIT Bombay.
- 5 day Online FDP on Nest Generation Intelligence conducted by St. Peter's Institute of Higher Education and Research.
- 5 day Online Short term Course on Nano materials and Devices conducted by NITTTR, Chandigarh.
- 5 day Online ATAL FDP on Robotics Conducted by NIT, Jamshedpur.
- 5 day online ATAL FDP on Biomedical Instrumentation conducted by UNIVERSITY B D T COLLEGE OF ENGINEERING DAVANAGERE.
- 5 day online ATAL FDP on Deep Learning conducted by Indian Institute of Information Technology Vadodara.

Training Attended

- 3 month training on CALIBRATION OF ELECTRICAL AND ELECTRONIC INSTRUMENTS at Regional Testing Centre (southern region) – Guindy, Chennai.

- 5 day training on DCS & PLC overview conducted by Yokogawa India Pvt. Ltd at Sri Sairam Engineering College, Chennai.
- 2 day training on DCS & PLC overview conducted by Technical School of Yokogawa India Ltd., at Bangalore.
- 6 day online Guru Cool Program (6 Days Training on Emerging Technologies followed by a Project Build-a-Thon) CONDUCTED BY IBM INDIA UNIVERSITY RELATIONS.

- 3 day online Electronic Product Build-A-Thon, A 3 Days Training Program on Electronic Product Designing Followed by 7 Days Product Development Conducted by SmartBridge Educational Services Pvt Ltd in Association with Voltera Inc.