

## Sri Sairam Engineering College

### Department of Electronic Instrumentation & Control Engineering

Mrs Gowriswari S



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- 600044  
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#### AREAS OF EXPERTISE

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**Computer Science Information Systems** Image processing ,Machine learning and Artificial intelligence

#### EDUCATION

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**M.E., 2013** Anna University  
**B.E 1997** Dr MGR Engineering college

#### PROFESSIONAL EXPERIENCE

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**Sri Sai Ram Engineering College 2018 - Present**  
*Associate Professor Kanchipuram*

**Sri Sai Ram Engineering College 2007 - 2018**  
*Assistant Professor Kanchipuram*

**Sri Sai Ram Engineering College 2005 - 2007**  
*Lecturer Kanchipuram*

**Thangavelu Engineering College 2001 - 2005**  
*Lecturer - Senior Scale Kanchipuram*

#### RESEARCH PROJECTS

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##### **“BIO INSPIRED BEACH CLEANER”**

*Role: Co-Ordinator*

Year: 2016 | Amount: 1,00,000

##### **“Touch-less finger imaging biometric system based on ridge classification and LBP”**

*Role: Co-Ordinator*

Year: 2012 | Amount: 10,000

## **HONOURS AND AWARDS**

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### **NPTEL ENTHUSIASTS 2025**

Awarded by: NPTEL

### **NPTEL DOMAIN SCHOLARS 2025**

Awarded by: NPTEL

### **NPTEL DISCIPLINE STARS 2025**

Awarded by: NPTEL

### **NPTEL MOTIVATED LEARNERS 2024**

Awarded by: NPTEL

### **NPTEL BELIEVERS 2024**

Awarded by: NPTEL

### **TOP PERFORMING MENTOR - CLOUD COMPUTING 2024**

Awarded by: NPTEL

### **Reviewer in IEEE International Conference on Signal Processing and Advance Research in Computing held on 12th and 13th September 2024, at Amity University Lucknow Campus. 2024**

Awarded by: IEEE International Conference

### **Volunteered as proctor to guide and oversee competing teams for the IEEEXtreme 18.0 programming 2024**

Awarded by: IEEE

### **Volunteered as proctor to guide and oversee competing teams for the IEEEXtreme 17.0 programming 2023**

Awarded by: IEEE

### **Evaluator 2022**

Awarded by: Smart India Hackathon 2022

### **"Bridge Inspectors" - Level 1 2022**

Awarded by: (CIDC)Construction Industry Development Council (Established by the Planning Commission, Government of India)

### **Assistant Coordinator 2022**

Awarded by: AICTE PARAKH

**Best mentor for motivating the mentee to excel in Skill Rack Platform 2022**

Awarded by: Sri Sairam Engineering College

**BEST FACULTY ADVISOR 2021**

Awarded by: IEI

**MENTOR FOR STUDENTS IN ATAL TINKERPRENEUR 2021**

Awarded by: AIM NITI AAYOG

**Evaluator for the TOYCATHON 2021 2021**

Awarded by: AICTE

**Expert member EEE in Student Learning Assessment (SLA) Project 2021**

Awarded by: AICTE

**"Elite" in Emotional Intelligence 2021**

Awarded by: NPTEL ONLINE Certification (funded by the ministry of HRD, Govt of India)

**"Elite" in Python for Datascience 2019**

Awarded by: NPTEL ONLINE Certification (funded by the ministry of HRD, Govt of India)

**"Elite" in "Analog Circuits" 2018**

Awarded by: NPTEL ONLINE Certification (funded by the ministry of HRD, Govt of India)

**"Elite" in "Developing Soft Skills and personality" 2018**

Awarded by: NPTEL ONLINE Certification (funded by the ministry of HRD, Govt of India)

**Best Teacher Award 2018**

Awarded by: Sri Sairam Engineering College

**Best Teacher Award 2017**

Awarded by: Sri Sairam Engineering College

**Best Teacher Award 2016**

Awarded by: Sri Sairam Engineering College

**PROFESSIONAL MEMBERSHIPS**

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**ISTE 2025**

*LM 131493*

**IEEE 2025**

*MEMBER*

## **IEEE Engineering in Medicine and Biology Society 2025**

*Member*

## **IEEE VEHICULAR TECHNOLOGY 2025**

*Member*

## **IEEE Industrial Electronics Society 2025**

*Member*

## **IEEE Industry Applications Society 2025**

*IEEE*

## **IEEE Technology and Engineering Management Society Membership 2025**

*IEEE*

## **Institute of Engineers 2005**

*AMIE*

## **COMMITTEE MEMBERSHIPS**

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### **ISO Internal Audit Committee 2024**

*Associate Professor*

### **NAAC 2024**

*Dept Co- Ordinator*

### **First Internal Conference ON "Intelligent Computing and Control for Engineering and Business Systems" held during 14 th and 15th Decemeber 2023 2023**

*Co-Ordinator -ICE*

### **First Internal Conference ON "Intelligent Computing and Control for Engineering and Business Systems" held during 14 th and 15th Decemeber 2023 2023**

*Reviewer*

### **Organizing committee in 2nd National Conference on "Recent Trends in Instrumentation control and Automation" 2014**

*Co-Ordinator*

## **PATENTS**

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### **An Intelligent Smart Street Light System with Safety Technology and Environment**

**Monitoring Inventor(s):** Saswati Kumari Behra, Rajakumar.P, R.Gayathri Devi, M.Hemalatha, V.Malini, E.Maheswari, T.Mangayarkarasi, S.Gowriswari, R.Chithrakannan, Ilayaraja.R

Assignee: Sri Sairam Engineering College | Published: 2020-11-06

### **IOT ENABLED SOLAR POWERED SMART WASTE MANAGEMENT DUSTBIN**

*Inventor(s): Mrs T Mangayarkasai, Mr R.Karthikeyan, Ms Gowriswari S, Mrs B Umamaheswari , Mr. P Rajakumar, Mr Sathyaraj C*

Assignee: Mrs T Mangayarkasai | Published: 2024-04-18

### **Design and Devopment of Firebot**

*Inventor(s): Devaraj S, Perumal B, Sowban S Bel, Gowriswari S*

Assignee: Sri Sairam Engineering College | Published: 2024-11-08

### **Fault Detection in Distillation Column usin SIL**

*Inventor(s): Suwaatha s, Kayalvezhi E, Ramananjali R, Yuvaneshwari V, Umamaheswari B, Gowriswari S*

Assignee: Sri Sairam Engineering College | Published: 2024-11-15

### **AN INTELLIGENT NON INVASIVE BLOOD GLUCOSE MONITORING SYSTEM USING RF**

*Inventor(s): Karthik Kumar B ,RagavanV S ,Rakesh G ,Gowriswari S*

Assignee: SRI SAIRAM ENGINEERING COLLEGE | Published: 2025-05-02

## **PUBLICATIONS**

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#### **1. Swallowing Pattern Recognition with IoT and Convolutional Neural Networks**

*Chitra Devi D.;Rajendran A.;Sathish A.;Gowriswari S.;Karunkuzhali D.;Sarathkumar D.*

Proceedings of the 2025 11th International Conference on Communication and Signal Processing Iccsp 2025

, Vol. (2025) , pp. 723-728

#### **2. AdaBoost-Powered IoT System for Real-Time Pediatric Sleep Pattern Recognition**

*Saleem M.A.;Dinesh Babu S.;Gowriswari S.;Saranyadurai A.;Pandey P.;Vidhya Rosini M.*

Proceedings of the 2025 11th International Conference on Communication and Signal Processing Iccsp 2025

, Vol. (2025) , pp. 1580-1585

#### **3. Enhanced Temperature Management in Pharmaceutical Manufacturing with IoT and Extreme Gradient Boosting**

*Sampathrajan R.;Gowriswari S.;Jeevitha N.;Jansi K.R.;Muthulekshmi M.;Ramesh K.*

Proceedings of the 2025 11th International Conference on Communication and Signal Processing Iccsp 2025

, Vol. (2025) , pp. 1891-1896

#### **4. Parallel Array of Supercapacitors for Storing and Releasing Energy From Regenerative Braking in Electric and Hybrid Vehicles**

*Harshavardhan R.G.;Gowriswari S.;HarishKumar G.;Karthik Kumar B.;Jayanthi G.;Umamaheswari B.* 4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icepts 2024 , Vol. (2024) , pp.

#### **5. Augmented Reality for Public Engagement in Sustainable City Planning: Cloud and Machine Learning Integration**

*Sabitha R.;Gowriswari S.;Yuvaraj S.;Gayathri Devi M.;Babuji R.;Murugan S.*

2024 International Conference on Advances in Modern Age Technologies for Health and Engineering Science Amathe 2024 , Vol. (2024) , pp.

6. **Cloud-Enabled Fingerprint Attendance Management System Using Convolutional Neural Networks in Educational Institutions**  
*Antony N.V.;Sugapriya K.;Gowriswari S.;Prabakaran T.;Mouleeswaran S.K.;Sujatha S.*  
2024 International Conference on Advances in Data Engineering and Intelligent Computing Systems Adics 2024 , Vol. (2024) , pp.
7. **Intelligent Headlights for Adapting Beam Patterns with Raspberry Pi and Convolutional Neural Networks**  
*Maheswari P.;Gowriswari S.;Balasubramani S.;Ramesh Babu A.;Nk J.;Murugan S.*  
Proceedings 2nd IEEE International Conference on Device Intelligence Computing and Communication Technologies Dicct 2024 , Vol. (2024) , pp. 182-187
8. **User-Centric Drink Customization with Cloud-Powered Collaborative Filtering with Raspberry Pi Integration**  
*Gowriswari S.;Fathima S.S.;Joseph Rajan D.A.;Mohankumar N.;Sasirekha V.;Rajmohan M.*  
2024 11th International Conference on Reliability Infocom Technologies and Optimization Trends and Future Directions Icrito 2024 , Vol. (2024) , pp.
9. **Optimizing Electric Vehicle Charging Networks Using Clustering Technique**  
*Srividhya V.;Gowriswari S.;Vini Antony N.;Murugan S.;Anitha K.;Rajmohan M.*  
2024 2nd International Conference on Computer Communication and Control Ic4 2024 , Vol. (2024) , pp.
10. **Low Cost Assorted Sized Bottles Automated Liquid Filling System using SCADA**  
*Gowriswari S.;Karthikeyan R.;Brindha S.;Karthick Kumar S.*  
2023 Intelligent Computing and Control for Engineering and Business Systems Icebs 2023 , Vol. (2023) , pp.
11. **ADVANCED IOT-BASED ANESTHESIA MANAGEMENT SYSTEM WITH REMOTE MONITORING AND CONTROLLING**  
*Rajkumar K.;Rajkumar G.;Gowriswari S.*  
International Journal of Advances in Signal and Image Sciences , Vol. 9 (2023) , pp. 46-54
12. **Medical image learning by integrating image grade and kernel processing into feature extraction**  
*Gowriswari S.;Raman R.;Haralayya B.;Vibhute N.S.*  
Aip Conference Proceedings , Vol. 2519 (2022) , pp.
13. **Hyperparameters Optimization using Gridsearch Cross Validation Method for machine learning models in Predicting Diabetes Mellitus Risk**  
*Gowriswari S.;Brindha S.*  
2022 International Conference on Communication Computing and Internet of Things Ic3iot 2022 Proceedings , Vol. (2022) , pp.
14. **Design and Development of Assistive device for Deaf and Dumb**  
*Gowriswari S , Roshan J , Aadhithyan M , Venkatesh R*  
ICIRMEEE 2021 Conference proceeding -ISBN 978-93-85434-85-3 , Vol. (2021) , pp. 52
15. **An Assistive Device For Deaf And Dumb People**  
*Gowriswari S Roshan J , Aadhithyan M , Venkatesh R*  
Ilkogretim Online - Elementary Education Online, , Vol. (2020) , pp.
16. **Machine health monitoring using IoT**  
*S Gowriswari, J Roshan, M Aadhithyan, R Venkatesh*  
Journal of the Gujarat Research Society , Vol. (2019) , pp.

17. **Iot Based Residence Supervising and Alerting System**

*Gowriswari S. ,B.Mahalaxmi ., K.Monika Tharani . , M.Pavithra*

Journal of Emerging Technologies and Innovative Research (JETIR) , Vol. 6 (2019) , pp. 105-109

18. **Automatic inventory control**

*Gowriswari S.;Sadath Immad M.;Jayaram R.;Shridar S.*

Journal of Advanced Research in Dynamical and Control Systems , Vol. 10 (2018) , pp. 288-294

19. **“Automatic Inventory Control”**

*Gowriswari S., M. Sadath Immad., R. Jayaram.,S. Shridar*

Journal of Advanced Research and Control Systems , Vol. 10 (2018) , pp. 288-294

20. **“Machine Monitoring and Automatic Shutdown system for Air Blower”**

*Gowriswari S.,V.Jannani Sai.,K.A.Niranjana.*

National conference in NCRTECC-2017 , Vol. (2017) , pp.

21. **“Cost Effective Infant Incubator with Integrated Billipad and Telemonitoring”**

*Gowriswari S., S. Mahashri., K. Manjupriya., R. Mohanapriya., S. Nivedha.*

International Journal of Latest Trends in Engineering and Technology(IJLTET) , Vol. (2016) , pp. 57-62

22. **“AUTOMATED SEWER LINE CLEANING AND MONITORING”**

*Gowriswari S., Dheepa Senthil Vel., R.Tamilarasi.*

National conference in NCRTECC-2016 , Vol. (2016) , pp.

23. **“Analysis of detrending Techniques with application to ectopic beat reduction in HRV signal”**

*Gowriswari S*

National Conference on Advanced computing and Information technology organized by CSE, IT & MCA in collaboration with ICTACT , Vol. (2013) , pp.

24. **Sixth Sense Control of Electronic Gadgets**

*Gowriswari S*

National conference for Physically Disabled conducted by Federation of Physically challenged at Tamil Nadu wing, , Vol. (2012) , pp.