Sriram Engineering College

Department of Electronics and Communication Engineering

Name & Photo :		**Dr. L. SIVAGAMI** 
Designation:		Assistant Professor
Qualification :	UG(Specialization)	B.E (Electronics and Communication Engineering)
	PG(Specialization)	M.E (Embedded systems), Ph.D (Under water Sensor Networks)
Area of Specialization :		Wireless sensor networks, DSP, Analog and Digital communication
Experience :	Teaching	24 Yrs
Paper Presentation in Seminar/Conference /Workshop (Specify only numbers)	National	20
Participation in (Specify only numbers)	Seminar/Conference /Workshop	5
	SDPs/FDPs	--
	Training Programs	1
Subjects Handled		Electronic circuits, Communication theory Satellite communication, Radar and Navigational aids Optical communication DSP, Signals & systems Fiber optic sensors.

Experience Details: (Teaching & Industrial)

Name of the Institution	Designation	Total No. of Years / Months
Sriram Engineering College, Perumalpattu.	Assistant Professor	22 Yrs
Elizabeth Thomas Engineering College, Ponneri-601204	Lecturer	1Yr 08 Mons
RMK Engineering College, Kaverapettai	Lecturer	10 months

Details of Journal Publications :

1. Design and implementation of Smart Device for monitoring Gait parameters using RFDT.
International Journal of Innovative Research in Computer and Communication Engineering gy, Vol.12, Issue.7, pp. 9900-9908 July 2024.

2. An ensemble approach on predicting blood platelets using supervised approach via computational bio informatics.
International Journal of Health Sciences, Vol. 6, Issue.8, pp. 3867-3878 September 29, 2022

3. Detection of Melanoma and Skin Diseases Based on the Fusion of Structural and Textural Features using Convolutional Neural Network.
International Journal of Innovative Research in Science, Engineering and Technology, Vol. 10, Issue.4, pp. 3457-3465 April 2021

4. Extraction Of Structural And Textural Features By K-Means Clustering for the Detection Of Skin Diseases.
International Journal for Science and Advance Research in Technology, Vol.6, Issue.12, pp. 197-203, December, 2020.

5. Dynamic Liver Deformation Images Positioned For Endoscopic Surgery Using Soundscape Through The Mems Sound Recognition.
International Journal for Science and Advance Research in Technology, Vol.6, Issue.6, pp. 989-992, June, 2020.

6. Adaptive power control and Fuzzy-based duty cycle scheduling in Underwater wireless sensor networks. (Scopus Indexed)
Sensor Letters, American Scientific Publishers, Vol.18, no.5, pp. 371-378, May, 2020.

7. An encryption decryption scheme towards higher level cyber security of authenticated data.
International Journal of Innovative Research in Science, Engineering & Technology, Volume-8, Issue-3, March 2019.

8. Cluster based time synchronization algorithm for mobile UWSN. (AU, Annexure II).
International Journal of Recent Technology & Engineering, Volume 7-Issue 4S2, 2277- 3878, Dec, 2018.

9. Raw food and fruit quality inspection system using image processing.
International Journal for Science & Advance Research in Technology, Volume-4, Issue-11, 2395-1052,November 2018.

10. Holocaust Conflict Robot. International Journal of Science Technology & Engineering (IJSTE). Volume3, Issue 8, Feb 2017.

11. Design of aquatic Robo for underwater Monitoring System. International Journal for Science & Advance Research in Technology(IJSART). Volume3, Issue 1, Jan 2017.

12. Traffic Control using Wireless Sensors. International Journal for Science & Advance Research in Technology(IJSART). Volume3, Issue 1, Jan 2017.

13. An Optimized Time Synchronization Algorithm for Mobile Submarine Sensor Networks. (AU, Annexure II). International Journal of Control Theory and Applications,IJCTA, Vol-9,Issue12, pp. 5727-5731,**ISSN :** 0974-5572, September,2016 Serial Publications International Science Press

14. Cluster-Based MAC Protocol for Collision Avoidance and TDMA Scheduling in Underwater Wireless Sensor Networks. (AU, Annexure I). *The Computer Journal,* Vol-59 Issue-10 pp. 1527-1535, Oxford Publications October 2016,

<u>Details of Conference publications and Proceedings</u>:

1. An **optimized time synchronization algorithm for mobile underwater sensor networks.** Saveetha School of Engineering - International Conference. 10th&11th March 2016

2. **Enhancement of battery lifespan of underwater communication**. Srirangapoopathi college of Engineering - International Conference. 19th March 2016.

3. **Energy efficient resource allocation in OFDM System with wireless transmission.** Velammal Engineering College - National Conference, 13th March 2015.

4. **Multiple Adaption Power Control For Energy competence using Error Control Codes**. Saveetha University - International Conference, 21st Jan 2013.

5. **Adaptive Power Control For Energy Efficiency in WSN using ECC.** VIT-Vellore International Conference, 20th November 2012.

6. **Optimal performance for minimum delay and maximum lifetime for wireless sensor network with any cast using non poisson wake up process.** KCG College Of Technology, Karapakkam, National Conference, 30th March 2012.

7. **Efficient data transmission with energy consumption over a wireless sensor networks.** SA Engineering college, International Conference, February 2012.

8. **Survey of energy efficient protocols for wireless sensor networks.** VIT-Vellore International Conference, January 2012.

9. **FPGA implementation of FFT processor for MIMO OFDM Applications.** K.S.R College Of Engineering, National Conference, 18th and 19th March 2011.

10. **Contrast enhancement of color images using tunable sigmoid function.** Kamarajar college of engineering and technology, National Conference, 11th March 2011.

Patent details:

1. Predicting air quality and monitoring model using machine learning, Patent No. 202341005368, filed on 27.01.2023 in the Department of Industrial Policy & Promotion, Government of India. Published on 10. 02. 2023

2. Data lake with block chain and IOT enabled access control, Patent No. 202241035681, filed on 22.06.2022 in the Department of Industrial Policy & Promotion, Government of India. Published on 01.07. 2022

3. Preventing Attacks On Cyber Automation System Based on Artificial Intelligence, Patent No. 202241042636, filed on 26.07.2022 in the Department of Industrial Policy & Promotion, Government of India. Published on 5.08.2022

Awards and Achievements:

1. Resource Person for the FDTP on Computer Networks in the year 2013
2. Co-ordinated Science Expo in the year 2013-14 and guided projects displayed in Science-Expo
3. Acted as Question paper setter for Kongu Engineering college
4. Achieved 100% result in Signals & systems for 3rd sem ECE