

Name: Dr.S.HEMALATHA

Degree:M.E.,Ph.D

Designation: Assistant Professor

Experience: 19 years

Area of Specialization: Image Processing with Deep Learning

Contact (Email id): hemalathas@stjosephs.ac.in

Subjects Handled:

- **Data Structure**

- **Design and Analysis of Algorithms**

- **Computer Organization and Architecture**

- **Computer Networks**

- **Introduction of Artificial Intelligence**

- **Programming in C**

Publications (Journals & Conferences):

International Journals Publications

- Hemalatha, S & Jai JaganathBabu, J 2024, ‘A Multitask Learning-Based Vision Transformer for Plant Disease Localization and Classification, International Journal of Computational Intelligence Systems, vol. 17, Article no. 188, pp. 1-21, IF: 2.5.

- Hemalatha, S & Jai Jaganath Babu, J 2024, ‘Next-Gen Crop Monitoring: MTEG-RTU Algorithm and UAV Synergy for Precise Disease Diagnosis, The Journal of

Chemometrics , vol.38 , Issue 12, pp. 1-19, IF: 1.9.

- Hemalatha, S & Jai JaganathBabu, J 2024, ‘A relation network for plant disease detection based on fewshot learning, International Journal of Artificial Intelligence, vol. 13, Article no. 04, p. 4499- 4508, SNIP 0.800.
- Latha, A., Prasanna, S., S.Hemalatha, Sivakumar, B., (2019). A Harmonized Trust Assisted Energy Efficient Data Aggregation Scheme for Distributed Sensor Networks. Cognitive Systems Research, Elsevier (56), 14-22. IF: 2.4.

International Conference Publications:

- Kalaiselvan, S.A.; Manoranjini, J.; Hemalatha, S.; Kumar, M.L.(2024) “AFHO-DL: Enhancing Energy Efficiency through Resource Allocation AI-enabled WSNs and IoT Integration”, IEEE Explore.
- N. Anbuselvan; S. Hemalatha; Suresh Lakshminarayanan; E. Sivanantham; N. Mohankumar; Thamizhamuthu R,(2024), “ Buck Boost Converter Control in an IoT-Based Wind System Using Supervised Learning Technique”, IEEE Explore.
- S. Hemalatha; Jayabharathi Ramasamy; K. Selvi; P. Anandan; R. Meenakshi; S. P. Maniraj(2024), “Cloud-Based Oxygen Management System with Seamless HTTP Protocol Integration “, IEEE Explore.
- T. Prabakaran; A. Ramesh Babu; S. Hemalatha; Jayabharathi Ramasamy; Rajesh Kambattan Kovarasan; B Elango (2024), “ IoT-Genomics Analysis for Personal Health with Cybergenomics and Cloud Technology”, IEEE Explore.
- M. Vadivel; V. Bini Marin; S. Balasubramani; S. Hemalatha; S. Murugan; S. Velmurugan(2024), “Cloud-Based Passenger Experience Management in Bus Fare Ticketing Systems Using Random Forest Algorithm” ,IEEE Eplore.
- P. Karthikeyani , D. David Neels Ponkumar, S. Hemalatha,M. Tamilselvam,M. Muthulekshmi, C. Dhanesh,” Cloud-Driven Autonomous Drones for Dynamic

Emergency Medical Response Using Convolutional Neural Networks” , IEEE
Explore.

National Conference Publications

Patents Grants:Nil

Patents Published:

S.Hemalatha , DESIGN AN INTELLIGENT SURVEILLANCE AND NIGHT
PATROLLING

USING DRONE- 202421002076

NPTEL Certifications:

- **Introduction To Machine Learning**
- **The Joy of Computing using Python**

Google Scholar ID: ExVGxXEAAAAJ&hl=en

Scopus ID: 58966933900

WOS researcher ID: KMX-1673-2024

Orchid id: [0009-0003-0131-356X](https://orcid.org/0009-0003-0131-356X)