Faculty Profile



Dr. S. Ilavarasan, M.E., Ph.D.
Associate Professor – IT

HIGHLIGHTS:

- Number of Journal Publications:
  - SCI – 5
  - SCOPUS -8
  - Non-Scopus - 04
- H-Index: 03
- Project Funding Received: 0
- Patents Published: 0
- Patents Granted: 2

PROFESSIONAL LINKS:

- Scopus ID: 57095032500
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=57095032500
- Google Scholar ID: https://scholar.google.com/citations?user=qNOpoUsAAAAJ&hl=en
- Anna University Faculty ID: 2648571982
- AICTE Faculty ID: 1-713469272
- Anna University Supervisor ID: -NA-
- LinkedIn: https://www.linkedin.com/in/s-ilavarasan-246335356/

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 19 years 2 months.
- Industrial Experience: -NA-

AREA OF SPECIALIZATION:

- Artificial Intelligence
- Networking
- Data Mining
- SOA

PATENTS PUBLISHED/GRANTED:

S. No	Patent Title	Application Number	Patent Country	Status
1.	Marine Boundary Alert System For Fishermen.	Design 387833-001	India	Granted
2.	Ml Based Device To Validate Handwriting Bank Cheque	440227-001	India	Granted

ACHIEVEMENTS AND AWARDS:

Received the best teacher award 5 times in college.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- Attended "Master Trainer program on Computer Architecture and Operating System "from 24/02/2012 to 25/02/12 at ICT Academy of Tamilnadu .
- Attended workshop on "Software Testing "at SEC on 16/03/2012.
- Participated "Wipro Mission 10 X" Program at SEC from 14/05/2012 to 18/05/2012.
- Attended FDP on "deep Drive Enablement Program" at Infosys, Chennai from 09/07/12 to 13/07/12.
- Attended Two days ISTE workshop on "Aakash for Education" at SEC from 10/11/12 to 11/11/12.
- Attended one week ISTE workshop on "research methods in educational Technology" at SEC from 2/2/13 to 09/02/13.
- Attended two days' workshop on "recent Trends in Networking Simulation tool" at SEC from 30/01/14 to 31/01/14.
- Attended Ten days ISTE workshop on "DBMS" at SEC from 21/3/14 to 31/03/14.
- Attended one Month workshop on "Computer Programming" at SEC from 22/05/14 to 21/06/14.
- Attended one week Short term ISTE training program on "Introduction to design Algorithms" at SEC from 25/05/15 to 30/05/15.
- Attended ten days workshop on "Cyber Security" at SEC.
- Participated two days IEEE Technically Sponsored work shop on "Android Mobile Application Development" at SEC from 19/02/16 to 20/02/16.
- Participated one day workshop on "Setting up a Cloud Computing lab using open nebula" on 30/07/16 at SEC.
- Participated one day workshop on "Python Programming" at SEC from 28/06/2017 to 30/06/2017.
- Attended three month FDP program on "ICT Tools & Teaching Pedagogy" at SEC from 2/08/17 to 04/10/17.

- Workshop on Hands on Training on Development of e-content (MOODLE) & Educational Video Creation (Online Mode) conducted by CIT – TLC on 23 & 24 January 2021.
- Attended on week week National Level faculty Development Program on "Secure Cyber space using Machine Learning & Black Chain Technology" (online Mode) conducted by Vardhaman College of Engineering,Hydrabad from 11/09/2023 to 15/09/2023.

Papers Published

International Conferences

1. "Revolutionizing CKD Prediction with Bayesian - Optimized Light GBM for Clinical Decision Support", 2025 International Conference on Emerging Technologies in Engineering Applications (ICETEA) | 979-8-3315-1485-3/25/$31.00 ©2025 IEEE | DOI: 10.1109/ICETEA64585.2025.11099645.

2. "Federated Learning and Edge AI for Privacy-Preserving Diabetes Prediction in Healthcare", 2025 3rd International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS) DOI: 10.1109/ICSSAS66150.2025, 11-13 June 2025.

3. "Adaptive Dynamic Load Stabilization in Wireless Sensor Networks" in ICIIES'15 March 2015.

4. "Trinity Tree Construction for unattended web extraction" in ICIIES'15 March 2015.

5. "Energy Efficient Wireless Sensor Networks for Temperature and Gas monitoring" in ICEAS2014.

6. "Enhance the Security to Mitigate Online Password Guessing" in ICACT-2013

National Conferences

1. "Jabber/Xmpp for Mobile instant Messaging" – Presented Paper in ICTCON'13 at SEC on 27/03/2013.

2. "Authenticated Spam detect in email"-Presented Paper in ICTCON'13 at SEC on 27/03/2013.

3. "Smart Health Monitoring System using Technology for Pregnant Ladies" - Presented Paper in ICTCON'16 at SEC on 30/03/2016.

Journal Publications:

1. R., Mokkapati, Ragini ,S**., Ilavarasan, S**.,K.K., Sharma, Kamal Kant,M.A., Gawas, Mahadev Anant, "Strengthening Security in Iomt: A Blockchain-Based Cybersecurity Framework for Similarity Directed Graph Neural Network Driven ECG Signal Classification" International Journal of Computer Network and Information Security, 2026.

2. Balashanmuga Vadivu Palanivel ,Gopalsamy Venkadakrishnan Sriramakrishnan,Vadamodula Prasad , Subbiah Vairamuthu , Deena Gnanasekaran, **Ilavarasan Sargunan**, "PLeFF-Net: parallel Le-Net forward fractional network for sarcoma cancer detection using histopathological image",Knowledge-Based Systems,338,115476,2026,ISSN:0950-7051, https://doi.org/10.1016/j.knosys.2026.115476

3. **Ilavarasan, S**., Suresh Kumar, K., Karthi, Govindharaju, Cheemalapati, Viswanathasarma, "TopK-KiU-Net and squeeze residual fraction network for kidney tumor segmentation and detection",Biomedical Signal Processing and Control,Vol. 113, Article 109116,2026,ISSN:1746-8094, https://doi.org/10.1016/j.bspc.2025.109116

4. Gopalsamy Venkadakrishnan Sriramakrishnan,a, Vadamodula Prasad, Selva Rani Balasubramaniam, Deena Gnanasekaran, **Ilavarasan Sargunan**, Balashanmuga Vadivu

Palanivel, “Optimization with R2U-Net nuclei segmentation and NASLe forward fractional network cell classification in pan-cancer histology images”,EUROPEAN PHYSICAL JOURNAL PLUS,141:30,2026-ISSN:2190-5444- https://doi.org/10.1140/epjp/s13360-025-07244-6

5. Selva Rani Balasubramaniam Palanivel , , Deena Gnanasekaran , Sriramakrishnan Gopalsamy Venkadakrishnan , **Ilavarasan Sargunan** and Vadamodula Prasad Balashanmuga Vadivu, “Deep Residual Xception Network-Based Lung Cancer Detection Using CT Images”,CANCER INVESTIGATION,Volume 43, - Issue 10,2025,ISSN 0735-7907, https://doi.org/10.1080/07357907.2025.2580957

6. **Ilavarasan Sargunan**, Balajee Maram, Creesy Rajan, Vadamodula Prasad, Selva Rani Balasubramaniam, Deena Gnanasekaran, “Discrete neighborhood difference pattern-based feature extraction and hybrid deep learning model for melanoma skin cancer detection”, Biomedical Signal Processing and Control, Volume 107, 2025, 107812, ISSN 1746-8094, https://doi.org/10.1016/j.bspc.2025.107812.

7. “Real Time Spatial Transmission Analysis Based Improved Black Hole Attack Detection in WSN for Improved QoS", Design Engineering [toronto] journal, Issue 7, Page no: 5748-5765, Aug, 2021, ISSN: 0011-9342.

8. “Detection and Elimination of Black Hole attack in WSN” in IJITEE ISSN: 2278-3075, Volume-9 Issue-1, November 2019.

9. “A Survey on Jamming Attacks in Wireless Sensor Networks” in International Journal of Innovations in Engineering & science. Volume 3, No.7, 2018, E-ISSN: 2456-3463.

10. “Online Recommendation and Substantiation for used commercial product by using Expert Analysis Method” in International Journal of Innovations in Engineering & science. Volume 3, No.1, 2018, E-ISSN: 2456-3463.

11. “Resource Efficient Wireless Sensor Networks for Temperature and Gas Monitoring Temperature and Gas Monitoring’’-in IJREAT International Journal of Research in Engineering & Advanced Technology, Volume 2, Issue 6, Dec-Jan, 2015.

Book Chapters

1. Gunanithi, S., **Ilavarasan, S.,** Karthika, R.N. (2024). Revolutionizing Osteosarcoma Diagnosis: A Comparative Analysis of Deep Learning Models for Precise Bone Cancer Detection Using Multi-Modal Medical Imaging. In: Chaudhry, S.S., Surendiran, B., Raj, C.V. (eds) Proceedings of the First Artificial Intelligence Summit on Smart Sustainable Society. AISSS 2023. Lecture Notes in Electrical Engineering, vol 1259. Springer, Singapore. https://doi.org/10.1007/978-981-97-7592-7_16.

2. Jaya Bharathi M and **Ilavarasan S** (2024), “Unlocking Market Trends: LSTM-based Stock Price Forecasting for Intelligent Investments”, Advancements in Communication and Systems, Publishing Date: 13-09-2024,ISBN: 978-81-955020-7-3, DOI: https://doi.org/10.56155/978-81-955020-7-3-55

3. N.Kanagavalli1 , S.BaghavathiPriya2 and S.Ilavarasan3 “ Identification of Deception Detection on Social Media (Twitter) Data Sets using Naive Base Classification and RVNN Model”, Research Article in Proceedings of the First International Conference

on Computing, Communication and Control System, I3CAC 2021, 7-8 June 2021, Bharath University, Chennai, India, DOI : https://doi.org/10.4108/eai.7-6-2021.2308570