

Prof. JAYALEKSHMI S

Associate Professor



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[Scholar Link](#)

Qualifications:

- B. Tech – Computer Science and Engg. (Calicut University, Kerala)
- M. E – Computer Science and Engg. (Anna University, Tirunelveli)
- Ph.D (Pursuing) - Computer Science and Engg. (NIT, Thirichirappalli)

Professional Experience:

- Associate Professor, CSE, LBSITW, Trivandrum (01 August 2021 - Till date)
- Associate Professor and Head, CSE, LBSITW, Trivandrum (16 July 2020 – 31 July 2021)
- Associate Professor, CSE, LBSITW, Trivandrum (04 October 2013 – 15 July 2020)
- Assistant Professor, CSE, LBSITW, Trivandrum (04 October 2010 – 03 October 2013)
- Lecturer, CSE, LBSITW, Trivandrum (30 July 2003 – 03 October 2010)
- Lecturer, CSE, College of Engineering, Munnar (16 August 2001 – 28 July 2003)
- Guest Lecturer, Dept. of CSE, College of Engineering, Adoor (10 July 2000 – 14 July 2001)

Recently Taught Courses:

- Compiler Design
- System Software
- Formal Languages and Automata Theory
- Ad-hoc and Wireless Sensor Networks
- Design and Analysis of Algorithms
- Data Structure Lab
- Compiler Design Lab

Other Responsibilities:

- Dean PG (Aug 2021-Till date)
- Coordinator DQAC, Member IQAC (Aug 2021-Till date)
- Academic Coordinator (CSE Batch 1) (Aug 2022-Till date)
- Head of Department, CSE (16 July 2020 – 31 July 2021)
- Staff Advisor
 - 2021 - 2023 M Tech CSE
 - 2014 - 2018 B Tech CS2
 - 2010 – 2014 B Tech IT
 - 2004 – 2008 B Tech IT
- Chairperson, Board of Examiners for S3 & S4 B Tech CSE & IT (2008, 2013, 2018 & 2020 Schemes) (April 2022 - March 2023)
- Pass board member – S3 B Tech 2019 scheme, KTU (Aug 2021)
- Member of Question Paper Setting and Scrutiny committee of B.Tech and M.Tech courses of KU & KTU
- Chief Superintendent KU & KTU (Jul 2015 - Jul 2017)
- TEQIP-II Academic Nodal Officer (July 2012 – July 2017)

Membership in Professional Organizations

- Life member ISTE
- CSI
- ACM

Journal/ Conference Publications:

- “Energy aware Load Balanced Clustering using Golden Eagle Optimization in MS based LR-WPAN”, Jayalekshmi S and R. Leela Velusamy, 14th International Conference on Ambient Systems, Networks and Technologies (ANT-2023), March 15 - 17, 2023, Leuven, Belgium (Accepted for publication in **Elsevier Procedia Computer Science**)
- “C-RPI : Cluster based Rendezvous Point Identification and Mobile Sink based data collection in LR-WPAN”, S Jayalekshmi and R. Leela Velusamy, 8th International Conference on Computers, Management and Mathematical Sciences (ICCM 2022) , North Eastern Regional Institute of Science and Technology (NERIST), Nirjuli Arunachal Pradesh, July 2022.

(Accepted for Publication as Book chapter in "Applications of Computational Intelligence in Management & Mathematics" of **Springer Proceedings in Mathematics & Statistics**)

- "IOT Based Smart Shoe for Visually Impaired people", Joan Joshy, Jyothika K.J, Kavya R, Neelima S and Jayalekshmi S, National Conference on Recent Advances in Digital Transformation of Agriculture, Science and Environment (RADTASE 2022), LBS Institute of Technology for Women, Trivandrum, April 2022
- "Recognition of Plant Diseases Using Machine Learning Approaches: A Survey", Angelyn Beena Shaw, Anjali M, Janeefa J Justin, Jincy Jose A J, and Jayalekshmi S, 2nd International Conference on Advances in Security and Computing (ICASC), LBS College of Engineering Kasaragod, July 2021
- "GSA-RPI: GSA based Rendezvous Point Identification in a two-level cluster based LR-WPAN for un-covering the optimal trajectory of Mobile Data Collection Agent", S Jayalekshmi and R. Leela Velusamy (2021), Journal of Network and Computer Applications, Elsevier, June 2021, doi.org/10.1016/j.jnca.2021.103048
- "A review on distributed cluster based routing approaches in mobile wireless sensor networks". Jayalekshmi Sumathi and R. Leela Velusamy (2020) Journal of Ambient Intelligence and Humanized Computing, Springer Nature, June 2020, doi.org/10.1007/s12652-020-02088-7.
- "An efficient processing of Webpage-metadata and documents using Annotation", Sabna S, Jayalekshmi S, International Journal for Advance Research in Engineering and Technology (IJARET). vol 3 issue 9, Oct 2015
- "Survey on Datamining Techniques for Recommendation Systems", Susan Thomas, Jayalekshmi S, Journal of Emerging Technologies and Innovative Research (JETIR), (ISSN-2349-5162) Vol 2 Issue 7, July 2015.
- "Cost effective load balancing based on Honey Bee behaviour in Cloud Environment", Jayalekshmi S, Sheeja Y S, International Conference on Computing Systems and Communication 2014, LBS Institute of Technology for Women, Trivandrum (ICCSC December 2014).
- "Honey Bee behaviour based load balancing for large tasks in Cloud Environment ", Jayalekshmi S, Sheeja Y S, International Conference on Information Science 2014 (ICIS 2014), College of Engineering Cherthala, July 2014 (ICIS 2014).
- "Text Steganography based on DNA coding vis word document files", Jayalekshmi S, Lekshmi Chandran, International Conference on Information Science 2014 (ICIS 2014), College of Engineering Cherthala, July 2014 (ICIS 2014).
- "Data Hiding Based on DNA Coding via Word Document Files", Jayalekshmi S, Lekshmi Chandran, National Conference on Innovative Emerging Technologies, College of Engineering Karunagappally, NCIET April 2014.
- "Honey bee behaviour based on load balancing in Inter and Intra Datacentre level",

Jayalekshmi S, Sheeja Y S, National Conference on Innovative Emerging Technologies, College of Engineering Karunagappally, NCIET April 2014.

- “Connectivity Analysis of Key pre-distribution scheme in Grid based Wireless Sensor Networks“, Jayalekshmi S, M S Bhuvaneshwari, International Conference on Intelligent Information Systems and Management (IISM 2010), RVS college of Engg & Technology, Coimbatore, 2010.
- “Key pre-distribution scheme based on signal Range in Wireless Sensor Networks“, Jayalekshmi S, M S Bhuvaneshwari, National Conference on High performance computing, SA College of Engg, Chennai, 2010.