

Dr. JAYALEKSHMI S
Associate Professor
Computer Science and Engineering



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[Scholar Link](#)

Qualifications:

- B. Tech – Computer Science and Engg. (Calicut University, Kerala) - 1998
- M. E – Computer Science and Engg. (Anna University, Tirunelveli) - 2010
- Ph.D - Computer Science and Engg. (NIT, Thiruchirappalli) - 2023

Professional Experience:

- Associate Professor, CSE, LBSCE, Kasaragod (4 Aug 2023 – till date)
- Associate Professor, CSE, LBSITW, Trivandrum (01 August 2021 – 31 July 2023)
- 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)

Areas of Interest :

- Algorithms and Formal Languages
- Adhoc Wireless Networks
- Network Security

Recently Taught Courses:

- Data Structures
- Research Methodology and IPR
- Programming in C
- Cryptography and Network Security
- Compiler Design Lab

Other Responsibilities:

- Chairperson/Co-ordinator-S6 B.Tech Examinations (2019 Scheme) , APJKTU for the Academic Year 2023-2024
- Staff Advisor : 2023 – 2027 B. Tech CSE (Batch B)
- Chairperson, Board of Examiners for S3 & S4 B Tech CSE & IT Kerala University (2008, 2013, 2018 & 2020 Schemes) (April 2022 - March 2023)
- Academic Auditor APJKTU Academic Year 2022-2023
- 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

Membership in Professional Organizations

- Life member ISTE
- CSI
- ACM

Journal/ Conference Publications:

- [“VERIFACE : A Deepfake Analysis System”](#), Abhay Suresh, Athulya K, Jibin Raj K J, Rakesh Rajan K V, Jayalekshmi S, Smithamol M B, 2nd International Conference on Recent Advancements in Engineering and Technology (ICORETech), February 8 - 9, 2024, *LBS College of Engineering Kasaragod*
- [“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 (Published 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. (Publishes 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.
- **“CMS: An Improved Scheme for Dependency-Based Load Balancing in Cloud Environmentefficient processing of Webpage-metadata and documents using Annotation”**, Neethu M S, Jayalekshmi S, International Journal of Advanced Research in Computer and Communication Engineering(IJARCCE) Vol. 5, Issue 6, June 2016, ISSN (Online) 2278-1021
- **“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 (ICCS 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.