

CURRICULUM VITAE

Dr.V. MAHALAKSHMI

Assistant Professor
Department of Computer Science
Jazan University, Jazan,
Kingdom of Saudi Arabia
Cell no: +966 551004975
Email: mahabecs@gmail.com,
mlakshmi@jazanu.edu.sa

PROFILE:

I have extensive teaching experience in the department of Computer Science in Jazan University, kingdom of Saudi Arabia, along with reputed Engineering colleges affiliated to Anna university & Bharathidasan University in India. Most of it focused on teaching mathematical and programming oriented papers in computer science like Web Technologies, Data base systems, Programming paradigms, Data structures and Algorithms, Advanced Programming, Networking, Operating Systems, Data mining, Artificial Intelligence. My work provides a useful link between Informational Retrieval, Text Mining in the department, encouraging research and teaching collaborations.

My research have explored a security mechanism that could be implemented in any area, out of palm vein and a collaboration of three distance metrics. I have around four year of teaching experience. As required I would be happy to contribute to UG and PG modules of both a research-led and a methodological nature. I am also aware of the importance of the pastoral care of students and take the role of tutor very seriously. I am experienced in liaising with colleagues to help students with a variety of problems. I am also experience in conducting workshops, symposia, conferences, orientation programs, Faculty development programs.

ACADEMIC PROFILE

Degree	University	Year of Passing	Score
Ph.D (Computer Science) (Full Time - Regular)	Bharathidasan University, India	2015	Highly Commended
M.Tech(Information Technology) (Full Time - Regular)	Bharathidasan University, India	2011	First Class-Distinction
B.E(Computer Science & Engineering) (Full Time - Regular)	Anna University, R.V.S.College of Engg and Tech, India	2008	First Class

TEACHING EXPERIENCE

- Currently working as **Assistant Professor** from November 2019 to Till Date in Department of Computer Science, Jazan University, Jazan, Kingdom of Saudi Arabia.
- Worked as **Lecturer** and Research Scholar from June 2012 to June 2016 in Department of Computer Science & Engineering, Bharathidasan University, Tiruchirappalli -23, India.
- Worked as a **Programmer** from June 2011 to June 2012 in Department of Computer Science & Engineering, Bharathidasan University, Tiruchirappalli -23, India.
- Worked as a **Guest Lecturer** from July 2010 to April 2011 in Department of Computer Science & Engineering, Bharathidasan University, Tiruchirappalli -23, India.
- Worked as **Lecturer** from December 2008 to October 2009 in Department of Computer Science & Engineering, Bharathidasan University, Tiruchirappalli -23, India.

PROFESSIONAL EXPERIENCE

- Member in **Department Program Assessment Committee**, Jazan University, Kingdom of Saudi Arabia.
- Member in **Department Research committee**, Jazan University, Kingdom of Saudi Arabia.
- Member in **Department ABET Accreditation committee**, Jazan University, Kingdom of Saudi Arabia.
- Member in **Department Quality committee**, Jazan University, Kingdom of Saudi Arabia.
- **Research Coordinator** in Scientific Communications Research Academy (SCR Academy), Chennai, India (<http://scr.ac/advisory-committee.html>).
- Member in **International Advisory Committee** 3rd International Conference on Green, Intelligent Computing and Communication Systems –ICGICCS 2018 <http://scr.ac/icgiccs18/advisory-committee.html>
- Has more than **ten years University level teaching experience** for Under Graduates and Post Graduates and for M.Phil Research students .
- Expertise in guiding students projects which include coding in various programming languages like VB.Net, Visual Basic 6.0, ASP.Net, Data Reports.
- Involved in all departmental activities in the Department of Computer Science, Bharathidasan University, Trichy-620021.

- An effective communicator with comprehensive problem-solving abilities, flair for innovation, technology adaptation and willingness to learn.
- Member of various committees in the college like Students council, Students Admission committee, Placement cell and other administration work .

SUBJECTS HANDLED

- | | |
|---------------------------------------|-------------------------------|
| ➤ High Performance Computing | ➤ Artificial Intelligence |
| ➤ Database Management Systems | ➤ Data Security |
| ➤ Computer Networks | ➤ Object Oriented Programming |
| ➤ Data Mining & Information Retrieval | ➤ Operating System |
| ➤ Data Structure | ➤ Software Engineering |

RESEARCH EXPERIENCE

Ph.D in Computer Science

Title: Augmenting Efficiency of Information Retrieval from a textual database by Information Retrieval configuration file algorithm.

M.Tech in Information Technology

Title: Detection Of Bipolar patients facial expression using CNN Algorithm

B.E in Computer Science & Engineering

Title: Information Retrieval from a textual database.

STUDENTS PROJECT HANDLED:

- Having Experience in Supervising Master Thesis and guided more than 50 students.

TECHNICAL SKILLS:

- Computer Languages : C, C++, DOT NET, XML, PHP, Python, JAVA

PATENT:

1. Dr. M. Sudhakara, Dr. R. Venkata Ramana, Y. Vijaya Sambhavi, Dr. Pole Anjaiah, **Dr. V. Mahalakshmi**. Real-Time Fish Detection Framework for Underwater Images using Multi-scale fusion Based Image Restoration Technique. Application number: 202241029024/ 20.05.2022, Published date: **27.05.2022.**
2. Dr. Bardinath, Dr. Devikanniga devarajan, Dr. J. Jegathesh Amalraj, **Dr. V. Mahalakshmi**,

Dr.A. Persia, Dr.S.Saranya, Sathyendra Bhat, Dr.Ramesh Prajapati, Dr.Logeshwari Dhavamani, Dr.S.Pavithra, Dr.Anil Kumar suthar, Husna Tabassum. Hybrid Memory Cube Oriented image Classification using a Machine leaning technique. Application number: 202141042656/ 21.09.2021, Published date: **05.11.2021**

3. Dr. Shridevi. S, **Dr. V. Mahalakshmi**, Dr. Thavavel Vaiyapuri, Dr Thangam Palaniswamy. Second Level Security Authentication Scheme for e-Banking System. Published on Application number:202141041637 Date: **01.10.2021**

PUBLICATIONS:

1. Rawia Ahmed Mohammed Eb rahim , Anne Anoop, Khalid Hasan Mahmoud Alsin jlawi , Yasmien Hussain Osman Abbas, Ragia Elsayed Eisawy Hussein, Suma Alex Kanjiramnilkunadil, **V. Mahalakshmi*** (2025). Impact of Oral Ice Cubes for Prevention of OM among Cancer Patients Receiving Chemotherapy: A Machine Learning Approach, *Journal of Information Systems Engineering and Management*, 10(10s):735-747. (**Scopus**)
2. Krithika P, Durdana Taranum Khan, Fazal imam shahi, Kiran Bala, Anjali Appukuttan, Subuhi Kashif, Ansari and **V. Mahalakshmi** (2025). Emerging Trends of Artificial Intelligence and Human, Personal, or Customer Values using R Studio and Vos Viewer. *Journal of Information Systems Engineering and Management*, Vol. 10(10s): 711-720. (**Scopus**)
3. **V. Mahalakshmi** (2025) Deep Learning and Statistical Learning Theory for Analyzing Neuroimaging and Biomedical Data in Artificial Intelligence. (ICATAS-Conference).
4. **V. Mahalakshmi** (2025) Anti Cancer Drug Response Prediction with Machine Learning and Data Driven Approaches. *Communications on Applied Nonlinear Analysis*. Vol 32 No. 5: 494-510. (**Scopus**)
5. Rameshkumar, A., ArunPrasanna, **V., Mahalakshmi**, V., Raja, M.R. and Gopinath, K., (2024). Recent advancement of analytical approaches for assessing Ataxia telangiectasia mutated kinase inhibitors in Ataxia telangiectasia: An overview. *Process Biochemistry*, 144, pp.142-159. (**Q2**)
6. Jesline D., B. Kanisha, Betty Elezebeth Samuel, **Mahalakshmi**, M. Ramkumar Raja, and Arul Jothi S. (2025) Cloud-Enhanced Fault-Tolerant Key Selection for Zero Trust Network Security in Side-Channel Attacks. CRC Press (Hard ISBN: 9781779520197).
7. Aadam Quraishi, Maher Ali Rusho, Faisal Yousef Alghayadh, **V. Mahalakshmi**, Mukesh Soni, and Mohammed Wasim Bhatt (2024). Next-Generation Advanced Security systems for Communities Using Integrated IoT and Blockchain Over Cloud Computing.

8. H. Byeon, I. Keshta, **V. Mahalakshmi**, M. Soni, I. R. Khan and R. Maranan (2024) Blockchain Based Dead Reckoning navigation system for Fault detection and secure Communication over VANET. *International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS)*, Bangalore, India on Oct 2023. pp. 1-7, doi: 10.1109/ICCAMS60113.2023.10526059.
9. H. Byeon, R. Nair, **V. Mahalakshmi**, M. I. Khalaf, B. Kaushik and M. Shabaz (2024). Enhancing Medical Image-Based Diagnostics Through the Application of Convolutional Neural Networks Techniques. *Third International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE)*, Ballari, India, pp. 1-6, doi: 10.1109/ICDCECE60827.2024.10548500.
10. **Mahalakshmi V**, John R, Samuel BE, Raja MR (2024). Exchange matching algorithm for low-complexity traffic scheduling for 5G fronthaul networks. In *Networks Attack Detection on 5G Networks using Data Mining Techniques*. Apr 23 (pp. 127-142). CRC Press.
11. **Mahalakshmi V**, Sandhu M, Shabaz M, Keshta I, Prasad KD, Kuzieva N, Byeon H, Soni M (2024). Few-shot learning-based human behavior recognition model. *Computers in Human Behavior*. 13:108038. (IF- 10) (Q1)
12. Keshta I, Reegu FA, Ahmad A, Saxena A, Chandan RR, **Mahalakshmi V** (2023). Security model to identify block withholding attack in blockchain. In *Artificial Intelligence, Blockchain, Computing and Security Volume 1 2023* (pp. 621-629). **CRC Press (Taylor & Francis)**.
13. Martin RJ, Oak R, Soni M, **Mahalakshmi V**, Soomar AM, Joshi A (2023). Fusion-Based Representation Learning Model for Multimode User-Generated Social Network Content. *ACM Journal of Data and Information Quality*, 15(3):1-21. (Q3)
14. **Mahalakshmi, V***; Balobaid, A.; Kanisha, B.; Sasirekha, R.; Ramkumar Raja, M (2023). Artificial Intelligence: A Next-Level Approach in Confronting the COVID-19 Pandemic. *Healthcare*, 11, 854. (IF-3.1) (Q2)
15. U Sivaji, **V Mahalakshmi**, GS Sivakumar, R Sasirekha, R Venkataramana, (2023). An Automated Framework for Detecting Change in the Source Code and Test Case Change Recommendation. *International Journal on Recent and Innovation Trends in Computing and Communication*, Vol. 11 No. 4s.
16. K. Reddy Madhavi, Vineela Krishna. Suri, **V.MahaLakshmi**, R. Obulakonda Reddy and Sateesh Kumar Reddy C (2023). Federated Learning and Adaptive Privacy Preserving in Healthcare 13th International Conference on Innovations in Bio-Inspired Computing and Applications held on December 15-16, 2022, **Springer**, USA.

17. Sudhakara, M., K. Ghanya, S. A. Karthik, G. Yamini, and **V. Mahalakshmi (2022)**. A Statistical Analysis of Fruit and Vegetables Quality Detection and Disease Classification for Smart Farming. *Journal of Algebraic Statistics* 13, no. 2: 1426-1438. 2022. **(Q4)**
18. Awatef Balobaid, S Murali Mohan, **V. Mahalakshmi, (2022)** Contemporary Methods on Text detection & localization from natural scene image and application. *Journal of Algebraic Statistics*, Volume 13, No. 2.
19. Sudhakara Malla; M. JanakiMeena; Obulakonda Reddy.R; **V.Mahalakshmi** ; Awatef Balobaid **(2022)**. Study on Fish Classification Techniques using Convolutional Neural Networks on Highly Challenged Underwater Images. *International Journal on Recent and Innovation Trends in Computing and Communication* 2022, p.2802-2811. **(Scopus) (Q4)**
20. Sujith AV, Sajja GS, **Mahalakshmi V**, Nuhmani S, Prasanalakshmi B **(2022)**. Systematic review of smart health monitoring using deep learning and Artificial intelligence. Sep 1;2(3):100028, *Neuroscience Informatics*, **(Elsevier)**
21. **V. Mahalakshmi*** and Awatef Balobaid **(2021)**. Augmenting the Efficiency of Text Mining for Improving Business Intelligence. *Acta Scientific Computer Sciences*, 3(11).
22. **V. Mahalakshmi**, B. Kanisha, S. Sabeen **(2020)**. Protected Allocation of Well-Being Data Using Machine Learning. *International Journal of Advanced Science and Technology*. 29 (4), pp. 10679–10686. **(Scopus)**
23. **V. Mahalakshmi (2020)**. Information retrieval a boon for modern technology-present and future perspective. *Acta scientific computer sciences*, 2(11), 1.
24. V.Gayathiri, PonPeriasamy, **V. Mahalakshmi (2018)**. Feature extraction approaches based on skin cancer detection. *International journal of creative Research thoughts*, ISSN:2320-2882, Volume.6, Issue 2, pp.803-806, April-2018.
25. **V.Mahalakshmi**, and K.Sivakumar.**(2017)**. Improving the Quality of Clustered texts based on Distance Metrics. *International Journal of Computer Science and Engineering Communications*, 5(6), 1792-1799. Article ID 5617921799.
26. Jayaraj, V. and Mahalakshmi, V., **(2015)**. Information Retrieval Configuration File Text Categorization Algorithm for Improving Business Intelligence. *International Journal Of Computational Engineering And Management”(IJCEM)*, ISSN, pp.2230-7893.
27. V.Jayaraj and **V.Mahalakshmi***, **(2015)**. Augmenting Efficiency of Recruitment Process using IRCF text mining Algorithm” *Indian Journal Of Science And Technology(IJST)*, ISSN:0974-6846. **(Scopus)**
28. V.Jayaraj, **V.Mahalakshmi***, P.Rajadurai, **(2015)**. Resume Information Extraction using future extraction model. *American International Journal of Research in Science, Technology, Engineering & Mathematics (AIJRSTEM)*, ISSN: 2328-3580.

29. V. Jayaraj, P.Rajadurai , **V. Mahalakshmi***, (2015), An Empirical study of feature extraction approaches . 4(11), 140-145. *International Journal of Advance Research in Science and Engineering*.
30. V.Jayaraj and **V.Mahalakshmi***, (2014). Text Mining Template Based Algorithm for Text Categorization for Improving Business Intelligence” *International Journal of Emerging Technologies in Computational and Applied Sciences*, ISSN: 2279-0055, Volume 4, pp. 345-350.
31. V.Jayaraj and **V.Mahalakshmi***, (2014), “An Empirical Study of extracting information for Business Intelligence” *International Journal of Engineering, Business and Enterprises Applications*, ISSN: 2279-0039, Volume 2pp. 119-121.
32. V.Jayaraj and V.Mahalakshmi*(2014), Improving Text Categorization Using Configuration File. *American International Journal of Research in Science, Technology, Engineering & Mathematics* 8(3), pp. 215-217.

POSTER PRESENTATION:

- Presented a Paper in the **National Conference** entitled “Semantic Web services Composition Performance Using Association Rule Mining” on February 8th 2011 at Jamal Mohamed College, Tiruchirappalli.
- Presented a Technical paper in the **National Conference** Entitled “A comprehensive study of Credit card fraud detection technique using statistic tool” on 24th March 2010, Organized by School of Computer Science, CARE college of Engineering, Tiruchirappalli.

Membership in Scientific Society:

- IEEE Membership
- IEEE Young Professionals
- IEEE Big Data Community
- IEEE Computer Society Technical Committee- Data Engineering
- IEEE Computer Society Technical Committee- Business Informatics and Systems
- Member in Bernoulli Society (BS)
- Member in Institute of Research Engineers and Doctors .
- Member in International Engineers Association.

SEMINARS / CONFERENCES:

- Part of the organizing team in the “**National Conference on Tamil Computing (NCTC2010)**” held on October 29th 2010 at Department of Computer Science & Engineering, Bharathidasan University Technology Park (BUTP), Tiruchirappalli.
- Participated in the “**National workshop on Research Tools in Computer Science (NWR TCS-2011)**” during 28th & 29th January 2011, held at Bishop Heber College (Autonomous), Tiruchirappalli.
- Participated in the “**Second Annual Seminar on Research Areas in Computer Science**” held on March 31st 2011 at Bharathidasan University Technology Park (BUTP), Tiruchirappalli - 620 023, India.
- Participated in the “**UGC-sponsored National Seminar Recent Trends in Cloud Computing And High Performance Computing**” held on February 19th 2015 at Bharathidasan University(Informatics Center) , Tiruchirappalli - 620 024, India.
- Participated in the “**YOUTH MELA**” held on 2014 at Bharathidasan University Tiruchirappalli - 620 024, India.

PERSONAL PROFILE:

Name	: Mahalakshmi.V
Date of Birth/Age	: 02.06.1987 / 37
Sex	: Female
Nationality	: Indian
Marital Status	: Married
Language Proficiency	: English, Tamil
Permanent Address	: 32, T.V.A.Nagar, Begambur, Dindigul - 624002. India
Passport no	- Z3272001

REFERENCES

Dr. A. Saahira banu,
Assistant Professor
Department of Computer Science
Jazan University, Jazan,
Kingdom of Saudi Arabia
Cell no: +966 594143733
Email: sahamed@jazanu.edu.sa

DECLARATION:

I would be grateful for the opportunity to demonstrate my capabilities further at interview. I declare that the information given above is true to the best of my knowledge and belief.

Thanking You

Date: 06.03.25

Yours Sincerely

(Dr. V. MAHALAKSHMI)