

Faculty Profile

Personal Information

- Name: **Dr. LATHA C A**
- Designation: Professor and IQAC-Head
- Department: Information Science and Engineering
- Email: IQAC.rvitm@rvei.edu.in, lathaca.rvitm@rvei.edu.in
- Phone: 9448683999

Google Scholar: <https://scholar.google.com/citations?user=oJfoqqEAAAAJ&hl=en>

ResearchGate: https://www.researchgate.net/profile/Dr-C-A?ev=hdr_xprf

LinkedIn: www.linkedin.com/in/dr-latha-c-a-17835073

ORCID: <https://orcid.org/0000-0002-7367-1767>

Domain of Expertise

- Cloud Computing
- NLP
- *Web Technologies*

Research Focus

- **Primary Area:** AI and ML, NLP and allied Domain

Academic Qualifications

- **Ph.D.:** Computer Science, Anna University, 2012
- **M.Tech.:** Computer science, NITK, 2003
- **B.E. :** Computer Science and Engineering, Mysore University, 1991

Professional Experience

1. **RVITM, Bangalore → From: October 2021 | To: Till Date**
Designation: Head of Department, Information Science & Engineering (ISE)
IQAC – Chief Coordinator MHRD-UBA, ASHC, CICC – Coordinator
2. **AMCEC, Bangalore → From: July 2016 | To: September 2021**
Designation: Head of Department, Computer Science & Engineering (CSE)
Coordinator for SEE, IQAC, ASHC, CICC
3. **GAT, Bangalore → From: July 2015 | To: July 2016**
Designation: Professor
4. **DBIT, Bangalore → From: May 2013 | To: July 2015**
Designation: Head of Department, CSE , PG Coordinator
5. **SVIT, Bangalore → From: August 2012 | To: May 2013**

Designation: Head of Department, CSE

6. JSSATE, Bangalore → From: December 2006 | To: March 2012

Designation: Assistant Professor

7. DSCE, Bangalore → From: November 2004 | To: October 2006

Designation: Assistant Professor

8. GMIT, Davanagere → From: September 2003 | To: July 2004

Designation: Lecturer

9. JMIT, Chithradurga → From: October 2000 | To: August 2003

Designation: Lecturer

10. BIET, Davanagere → From: September 1991 | To: December 1997

Designation: Lecturer

Publications & Patents

PATENTS

1. Patent Grant:

Title: **“Smart wearable device for health monitor”**

Application Number: 453593-001

CBR Number: 206830

CBR Date: 29/03/2025 18:13:23

Link:

2. US Patent published

Title: **“A method and system for load balancing in a distributed computer system”**

Pub. No.: WO/2008/14270

International Application No: PCT/IN2008/000283

Date: 27.11.2008

International Filing Date: 05.05.2008

Link: <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2008142705>

3. Patent Published:

Title **“ Enhanced Radial Basis Neural Network Machine Learning Network For Flood Prediction”**

Date : 02-04-2022 In Indian patent Office, Publication Number 19/2022

Link :

https://patentscope.wipo.int/search/en/detail.jsf?docId=IN361381926&_cid=P10-M5QBWG-59172-1

Journal Contributions

1. “Cost and performance aware scheduling technique for cloud computing environment”
International Journal of Reconfigurable and Embedded Systems (IJRES) Vol. 13, No. 1,
March 2024,

pp. 9~19 ISSN: 2089-4864, Q2

2. “AgriTrace: Blockchain-based Agricultural Supply Chain with Price Prediction”
International

Research Journal Tijer , ISSN 2349-9249, July 2023, Volume 10, Issue 7

3. “Fuzzy ranking Algorithm with seagull optimization based decision tree for short /long term

- rainfall prediction" Oct. 2022 International journal of fuzzy systems applications (IJFSA) , IGI publications, DOI-10.4018/IJFSA.306283
4. "Effective Load Balancing and Security in Cloud using Modified Particle Swarm Optimization Technique and Enhanced Elliptic Curve Cryptography Algorithm" December 28, 2021. International Journal of Intelligent Engineering and Systems, Vol.15, No.2, 2022-Q3 DOI: 10.22266/ijies2022.0430.18
 5. "GSA-based support vector neural network: a machine learning approach for crop prediction to provision sustainable farming." International Journal of Intelligent Computing and Cybernetics (2022)-Q3 , DOI 10.1108/IJICC-12-2021-0300.
 6. "Flood Prediction Using Machine Learning Models: A Literature Review." Design Engineering 3540-3552, November (2021), Design Engineering (Toronto) ISSN:0011-9342, Scopus Index-Q4, Ei Compendex
 7. "Crop recommendation and yield estimation using machine learning." Journal of Mobile Multimedia (2022): 861-884-Q2. DOI 10.13052/jmm1550-4646.18320
 8. "Smart Weather Acquisition, Analysis and Alert system." Annals of the Romanian Society for Cell Biology 25.6 (2021): 11289-11298.
 9. "Sentimental Analysis of Transliterated Text in Malayalam using RNN-LSTM" Springer Nature Journal of Ambient Intelligence and Humanized Computing, ISSN 1868-5137, July 2020(SCI publication)
 10. "Data Management for the Internet of Things: Architecture, Challenges and Technologies". International Journal of Innovative Technology and Exploring Engineering, 2020, 9(7), pp.255-262.
 11. "Identification of Language in a cross linguistic Environment" Indonesian Journal of Electrical and Computer Science, ISSN: 2502-4752, Vol No:8.1, 2019.
 12. "Market Basket Analysis for Retail Stores" Journal IJAMTES, May 2019. 9-ISSUE-05-2019.
 13. "Elliptic Curve Cryptosystem Technique for Data Security in Cloud Computing" International Journal of Management, Technology And Engineering, Volume IX, Issue V, May/2019 , ISSN NO : 2249-7455
 14. "Sentimental Analysis Using Recurrent Neural Networks" International Journal of Engineering and Technology, UAE. - ISSN: 2227-524X, Vol no:2.27, 2018. (Scopus Indexed)
 15. "Sentimental Analysis of Movie Reviews in Kannada" IJCST-V4I3P9 International Journal of

Computer Science Trends and Technology, May 2016, Vol. No. 4 Issue 3, ISSN: 2347-8578 & ISO

3297: 2017

16. "Comparison of Lexicon and Naïve Bayes classifier in Sentimental Analysis" at International

Journal for scientific Research & Development, ISBN: 2321 0613, Volume 3 Issue 4 published in

June 2015.

17. "Domain Based sentimental analysis for Kannada". RTCIET-IEEE International conference

2016 published in the IEEE Xplorer.

18. "Performing analysis of Ad- Hoc routing protocols for VANET using NS2 simulation" ISSN:

0976-8491 (Online) | ISSN: 2229-4333 (Print) IJCST Vol. 6, Issue 2, version 2, April- June 2015.

19. "Detecting Idle Nodes in Distributed Systems for Load Balancing" ISSN: 0976-8491 (Online) |

ISSN: 2229-4333 (Print) IJCST Vol. 5, Issue 1, Jan - March 2014.

20. "Job Scheduling in the Grid Computing using Criteria", International Journal of Computer

Applications (0975 – 8887) Volume 90 – No 6, March 2014.

Conference Publications

1. "Leadership Qualities Found In Lord Ram in Ramayan" 20th International Conference on

Business Management (ICBM 2024), University of Sri Jayewardenepura, Sri Lanka. pp 49, ISSN:

2235-9775 E ISSN: 3030-7759 Feb 29th , 2024 .

2. "Utilizing convolutional neural networks to create a wearable sign language detection system

with the Internet of Things", Oct 16th & 17th 2022, IEEE MysuruCon 2022.

3. "Leadership qualities of Ram in Ramayan" in International Conference on Business Management – ICM 2023, April 14th -15th 2023, Vivekananda Global University, Jaipur.

4. "Scattered Time Aware Energy Efficient virtual machine migration in cloud computing" ICInPro 2021, Oct 22nd to 24th , 2021, UVCE, Bangalore.

5. "Comparative Analysis of machine learning approaches for crop and yield prediction: A Survey" International Conference on Cybernetics, Cognition and Machine Learning

Applications.

August 2021.

6. "Survey on the Applications of Sentimental Analysis", Conference on Information and Computing Systems" ICICS-2019, May 2019.

7. "Elliptic Curve Cryptosystem Technique for Data Security in Cloud Computing ", Conference

on Information and Computing Systems" ICICS, May 2019.

8. "Safe ballot system using Blockchain Technology", Conference on Information and Computing

Systems" ICICS, May 2019,

9. "Domain based sentiment analysis in Regional Language-Kannada", IEEE International

Conference on Recent Trends in Electronics, Information & Communication Technology(RTEICT), Sri Venkateshwara College of Engineering, Bengaluru on 20-21 May, 2016,ISBN: 978-1-5090-0774-5

10. "Instrumentation to eliminate outliers in clusters to speed up compute intensive tasks", Second International Conference, ERCICA-2014 held on 01-02 Aug' 2014 at NMIT, Bangalore, ISBN-9789351072638, Vol. 3.

11. "Clock Synchronization in distributed systems", IEEE sponsored Fifth International Conference, "Industrial and Information Systems", pp. [609-614], 29 July–1 Aug 2010 National Institute of Technology Karnataka, Surathkal, Mangalore, India. Citation Index 7

12. "Scheduling the job for an idle computer in distributed system" pp. [22], National Conference, "Information and Communication Technology-2008", 29 Feb - 1 Mar 2008, NMIMS University Mumbai.

13. "Handling deadlocks in distributed systems" International Conference, "MNGSA-2008", Oct 2008 conducted by Karunya University, Coimbatore, India.

14. "Identification of idle computers in Distributed systems" pp. [122-127], International Conference, "Frontier technologies – need for the industry, business and education", 6-8 Sep 2006, Adhiyamman College of Engineering, Hosur.

15. "Searching for idle computers in Distributed systems" pp. [48], National Conference, "Recent trends in computer networking and communication", 10-11 Mar 2006, Bannari Amman Institute of Technology. Satyamangala.

16. "Comparative Analysis of machine learning approaches for crop and yield prediction: A Survey" International Conference on Cybernetics, Cognition and Machine Learning Applications. August 2021.

Authored Books & Chapters

1. **Book:** "Programming in C and Introduction to Data Structures". ISBN-13:978-9385868665. ISBN-10: 9385868667 <https://amzn.in/d/hhbmanC>
2. **Kindle version:** <https://www.amazon.in/Programming-Introduction-Data-Structures-Syllabusebook/dp/B019E69C6S>
3. **Book chapter:** AI-Driven Digital Twin and Industry 4.0-A Conceptual Framework with Applications
Book: Artificial Intelligence Applications in Industry 4.0 | 2 | Application (taylorfrancis.com)
Link: Artificial Intelligence Applications in Industry 4.0 | 2 | Application

4. **Book chapter:** An integrated water management system for smart cities using IoT and secure Blockchain Framework
Book: unleashing the power of block chain and IoT for water informatics Springer nature-Singapore
Link: https://link.springer.com/chapter/10.1007/978-981-96-3886-4_3

GRANTS

1. Received grant in aid of Rs.11,65,000/- towards Modernizing Research and Hardware Interfacing Lab' under MODROBS sanctioned by AICTE on August 2019. for AMCEC, Bangalore.
2. KSCST grant for the project "Smart Device for Physically Disabled Using Alexa" in the year 2021 for AMCEC, Bangalore.
3. VTU grant for the project "Recognizant: An Android Application for Visually Impaired People" in the year 2018-19, for AMCEC, Bangalore.
4. VTU grant for the project "Hambre : An initiative to reduce Hunger" in the year 2017-18 for AMCEC, Bangalore.
5. VTU grant for the project "Airpollutest : An intelligent system for prediction of air pollution using sensors" in the year 2017-18 for AMCEC, Bangalore.
6. CSI Grant for Students Convention, "CSI-GAT TECH-Meet 2016", 26th & 27th , February 2016, for GAT, Bangalore.
7. Grant from AICTE for the "Seminar Grant" for the event, "Colloquium- Research on Soft Computing-2013", for SVIT, Bangalore.

Academic Assessor

1. Chief Editor for a special issue for International Journal on "Internet of Things", for details, link:
2. <http://airccse.org/journal/ijngn/sicfp.html>.
3. Reviewer for International Journal of Intelligent Computing and Cybernetics (Web of Science)-
4. Reviewer for Heliyon, an open access journal from Cell Press (Elsevier).
5. Reviewer for Journal of Industrial Information Integration (Elsevier).
6. Reviewer for the IEEE International Conference on Emerging Technologies in Computer Science for Interdisciplinary Applications (ICETCS) 2024 organized by B. M. S. College of Engineering, Bangalore and IEEE Bangalore Section during 22nd and 23rd April 2024.
- 7.

8. ICRAITSD 06th and 07th November , 2024 (IEEE Conference Record #62903)
Department of ICT ,
MIT - Manipal Academy of Higher Education, Manipal.
9. Reviewer and Session Chair for National Conference at RVITM, NCDTE on 2nd and 3rd May 2024
10. Reviewer and Session Chair for IEEE International Conference at RVITM, IC-RVITM'23 on 28th & 29th Nov 2023.
11. TPC for IEEE conference at NHCE, 1st IEEE International Conference on Multidisciplinary Research in Technology and Management – MRTM 23, on 22nd & 23rd September 2023.
12. Research papers for 4th IEEE International Conference CCIP-2022 at JSSATE Bangalore on 16th and 17th December 2022.
13. VTU selected as Technical Kannada Book Reviewer -Dec 2022.
14. IEEE International Conference CENTCON-2021 held during 19th to 21st November 2021 at DSATM , Bangalore.
15. Reviewer for Journal of Parallel and Distributed Computing (Elsevier).
- 16.** Received Award for Outstanding Contribution in Reviewing in 2015 by Elsevier.

Professional Memberships

- ISTE
- CSI

Awards & Recognitions

- Best faculty Award from Cognizant as part of Teachers Day(ISTE), [2014]
- Excellent performer from RSST from 3 consecutive years(2020-21, 2021-22, 2022-23)

Mentorship & Administrative Leadership

Recognized Research Supervisor under VTU

Three scholars have been awarded PhD under my guidance:

- o Dr .Merin Thomas, Associate Professor , RV University
- o Dr. Santhosh Kumar, Associate Professor, DS university
- o Dr Ashwitha , Associate Professor, MIT, Bangalore

Guiding 2 Research scholars:

- o Mr. Prashanth Koparde, Assistant Professor, BMSCE,

o Ms. Namratha, Assistant Professor, RVITM

Responsibilities

- IQAC Chief coordinator
- ASHC/CICC Chairman
- WEC Chairman

External Connect

- BoS member for AI/ML Department at NHCE, Bangalore
- BoE member for CSE-ISE Board for 3 times in VTU