




DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Accredited NBA, NAAC with A+, New Delhi

Faculty Name	MADHUMALA RB	
Academic Designation	Associate Professor	
Educational Qualification	BE, M. Tech, Ph.D	
Experience in Years	14	
Area of Interest	Cloud Computing	
Date of Birth	02-04-1982	
Aadhar No	648254043108	
PAN No	AVRPM0057B	
Email ID	Madhumala-ise@dsatm.edu.in	

Educational Details

- Ph.D - Computer Science and Engineering-Cloud Computing-JAIN University 2022
- M.Tech Computer Science and Engineering, JNN College of Engineering, Shimoga under VTU Belgaum 2008.
- B.E in HMS Institute of Technology, Tumkur under VTU Belgaum 2004.

Personal Details

- Date of Birth: 02/04/1982
- Hobbies: Reading, cooking, Traveling
- Languages Known: English & Kannada

Professional Experience

- Currently working as an Associate Professor in Information Science and Engineering department at Dayananda Sagar Academy of Technology and Management
- Worked as Assistant Professor in Information Science and Engineering department at JAIN University from 2016 to 2022.
- Worked as Assistant Professor and HoD in Information Science and Engineering department at Coorg Institute of Technology, Coorg from 2011 to 2016.
- Worked as Assistant Professor in Computer Science and Engineering department at Karavali Institute of Technology, Mangalore from 2008 to 2011.
- Worked as Assistant Professor in Computer Science and Engineering department at DonBosco Institute of Technology, Bangalore from 2007 to 2008.

Publications

International Journals:

- Madhumala R B, Harshvardhan Tiwari and Devaraj Verma C, “A Reliable FrameWork for Virtual Machine Selection in Cloud Datacenter Using Particle SwarmOptimization”, International Journal of Mathematics and Computer Science,AMS (MOS) Subject Classification: 68W50.ISSN 1814-0432, Volume16, IssueNo. 2, PP: 677–685, 2020, OPEN ACCESS
- Madhumala R B, Harshvardhan Tiwari and Devaraj Verma C, “Virtual MachinePlacement Using Energy Efficient Particle Swarm Optimization in CloudDatacenter” Cybernetics And Information Technologies. Volume 21, Issue No. 1,ISSN: 1314-4081, DOI: 10.2478/cait-2021-0005, 2021 OPEN ACCESS
- Madhumala R B, Harshvardhan Tiwari and Devaraj Verma C, "Hybrid Model for Virtual Machine Optimization in Cloud Data Center," 5th International Conference on Intelligent Computing and Control Systems (ICICCS),IEEE Xplore 2021, pp. 137-141, doi: 10.1109/ICICCS51141.2021.9432149.OPEN ACCESS.
- Madhumala R B, Harshvardhan Tiwari and Devaraj Verma C, “Resource Optimization in Cloud Computing using Particle Swarm Optimization”, International Journal of Cloud Applications and Computing , IJCAC: Volume 12,Issue 2, Article 5. Special Issue Submission: Recent Advances in Computational Intelligence in Cloud Computing, , eISSN: 2156-1826, IGI ,OPEN ACCESS-SCI.
- .Madhumala R B, Harshvardhan Tiwari and Devaraj Verma C, “An Improved Virtual Machine Placement in Cloud Data Center using Particle Swarm Optimization Algorithm”, International Journal of Advanced Research in Engineering and Technology, ISSN - 0976-6499, Volume 11, Issue No. 8, DOI: 10.34218/IJARET.11.8.2020.074, 2020.
- Madhumala R B, Harshvardhan Tiwari, ”Virtual Machine Optimization using Nature Inspired Algorithms” International Journal for Research in Applied Science & Engineering Technology , ISSN: 2321-9653; Volume 8 Issue I, Jan 2019.
- Madhumala R B and Harshvardhan Tiwari, “A Survey on Nature Inspired Algorithms for Virtual Machine Optimization”, International Journal of Science and Research (IJSR) ISSN: 2319-7064, Volume 9, Issue No. 1, DOI: 10.21275/ART20203610, 2019.
- Madhumala R B “Enhancement of Lifetime Using Network Coding and Duty Cycle at Wireless Sensor Network”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 3 Issue VI, June 2015 IC Value: 13.98 ISSN: 2321-9653.
- Madhumala R B, Ravichandra YB, “A MapReduce Framework for an Effective Scheduler Based on the Job Size in Hadoop”, International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Index Copernicus Value (2013): 6.14 | Impact Factor (2013): 4.438
- RB Madhumala, S Chhetri, KC Akshatha, H Jain “Secure File Storage .Sharing on Cloud Using Cryptography”. IJCSMC, 2021, 10(5), 49–59. <https://doi.org/10.47760/ijcsmc.2021.v10i05.005>

International Conferences:

➤ Madhumala R B, Harshvardhan Tiwari , “A Review on Cloud Computing Security Issues and Challenges”, National Conference RACSIT-JAIN (Deemed-to-be University), DOI: <https://doi.org/10.5281/zenodo.572299>. 2017.

➤ Madhumala R B, Harshvardhan Tiwari, “Improved PSO for Optimizing Virtual Machine in Cloud datacenter”, National Conference On Innovative Research Advances In Engineering Applications And Processes, Jyothy Institute of Technology 2020.

Book chapters:

➤ Madhumala R.B., Tiwari H. (2020) Analysis of Virtual Machine Placement and Optimization Using Swarm Intelligence Algorithms. In: Haldorai A., Ramu A., Khan S. (eds) Business Intelligence for Enterprise Internet of Things. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-44407-5_9.

➤ Madhumala R B, Harshvardhan Tiwari and Devaraj Verma C (2022) A Review of Particle Swarm Optimization in Cloud Computing. In: Moh M., Sharma K.P., Agrawal R., Garcia Diaz V. (eds) Smart IoT for Research and Industry. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-71485-7_5

➤ Vineetha B., Madhumala R.B. (2021) Providing Security and Managing Quality Through Machine Learning Techniques for an Image Processing Model in the Industrial Internet of Things. In: Moh M., Sharma K.P., Agrawal R., Garcia Diaz V. (eds) Smart IoT for Research and Industry. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-71485-7_10

➤ Madhumala R B, Harshvardhan Tiwari, “Virtual Machine Selection Optimization Using Nature-Inspired Algorithms” Applied Soft Computing: Techniques and Applications, 2021 Apple Academic Press.

Conference Attended

- International conference i3CN-2015 at at Coorg Institute of Technology, Coorg, Karnataka

Seminar Attended

Workshop Attended

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Patents published with All Details

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Research Grants fetched with File No.
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Student Project Funds Fetched with Grant No.

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Consultancy Amount Fetched with Details
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Awards

1. Member of International Association of Engineers (IAENG - 155770).

2. Senior Member of IEEE society (IEEE - 97581280)
3. Member of Computer society of India, Karnataka, India.(CSI-F8003582)
4. Member of International Association of Computer Science and Information Technology (IACSIT- 80350762).
5. Toycathon-2021 Member of Evaluator sponsored by MHRD-INDIA, Ministry of Education, Ministry of Child and Development and Ministry of Education and Innovations cell. (<https://toycathon.mic.gov.in/>)
6. Member of the Board of Reviewer Personal and Ubiquitous Computing, Springer Nature. - <https://www.springer.com/journal/779>
7. Scientific and Technical Committee and Editorial Board Member, World Academy of Science, Engineering and Technology (WASET) U.S (www.waset.org)
8. Member of the Board of Reviewer for the “International Journal of Computer Science and Engineering ”(<http://www.iaset.us>)
9. Reviewer for African Journal of Bio technology (DOI: 10.5897/AJB), Academic Journals (AJ) - <https://academicjournals.org/journal/AJB>.
10. Reviewer for Multimedia Tools and Applications- <https://www.springer.com/journal/11042>
11. Reviewer for Distributed and Parallel Databases- <https://www.springer.com/journal/10619>
12. Reviewer for International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE 2020- <https://www.icstcee-conference.org/>) Reva University.
13. International Conference on Emerging Trends in Science, Engineering and Management-2021 (ICETSEM-2021) - Scientific Committee Member - <https://icetsem.net/scientific-committee.php>
14. International Conference on Futuristic Trends in Embedded Systems and Networking (ICFTEN 2021) – Reviewer and Scientific Committee Member <https://icften.com/scientific-committee.php>
15. International Conference on Emerging Electrical Systems and Control -2021 (ICEESC-2021) - Scientific Committee Member <https://iceesc.com/scientific-committee.php>

Academic Activity

Faculty Development Activity/Workshops

- Attended Computational Intelligence and Cloud Computing (CICC-2020) from **13th to 17th January 2020** held at National Institute of Technology, Raipur .
- "BOSS Linux " conducted by IIT Bombay (online) , **6 days FDP_16th April to 21st April 2020** (BOSS Linux , Spoken tutorial project funded by **MHRD, Govt of India**) organized by **Karmaveer Bhaurao Patil College of Engineering, Maharashtra.**
- “Are You IoT Ready? Join Configuration of Smart Home using CISCO Packet Tracer” hosted by Department of Computer Science & Engineering, JAIN Deemed to be University, Bangalore, on May 23, 2020.
- “INDUSTRY PERSPECTIVE ON DATA SCIENCE AND CLOUD COMPUTING”, from May 14, 2020 to May 16, 2020 through Online Pedagogy
- Data Visualization with R programming by codegnan IT solutions, May 15th, 2020.

- “ VFD Basics, latest and future YASKAWA VFD’S, i³ Mechatronics and Humatronics” conducted by Department of CSE,SCSE, JAIN Deemed to be University, Bangalore, held on 16th May 2020.
- Online Webinar on "SAP Analytics Cloud (SAC)" organised by Department of Computer Engineering, Sandip Institute of Engineering and Management on 12th May 2020.
- IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India, Certificate for Completion of Python 3.4.3 Training on May 9th 2020.

Contact Details

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