

DR. HARIVINOD N.

Associate Professor, Department of Computer Science and Engineering

St Joseph Engineering College, Mangaluru - 575028

Cell: 9741199888 ◊ Email: harivinodn@gmail.com, harivinodn@sjec.ac.in

EDUCATION

Ph.D. in Computer Science Dept. of Computer Science, Mangalore University, Part time	<i>July 2020</i>
M. Tech. in Computer Science and Technology Dept. of Computer Science, University of Mysore, Full Time Grade: First Class With Distinction	<i>June 2008</i>
M. Sc. in Computer Science Dept. of Computer Science, Mangalore University, Full Time Grade: First Class With Distinction	<i>June 2004</i>
B. Sc. in PMCs St Philomena College, Puttur, Full Time Grade: First Class with Distinction	<i>June 2002</i>

EXPERIENCE

St Joseph Engineering College, Mangaluru <i>Associate Professor in CSE</i>	Jan 2021 - Present <i>4 Years, 2 Months</i>
Vivekananda College of Engineering and Technology, Puttur <i>HoD and Associate Professor in CSE</i>	Jan 2009 - Jan 2021 <i>12 Years</i>
Siemens Information Systems Limited, Bangalore <i>Senior System Engineer</i>	Oct 2008 - Jan 2009 <i>4 Months</i>
St Philomena College, Puttur <i>Lecturer in Computer Science</i>	Jul 2004 - Aug 2006, Jul 2008 - Sep 2008 <i>2 years, 3 Months</i>

ACADEMIC & PROFESSIONAL ROLES AND RESPONSIBILITIES

- Head of Research Center, Computer Science and Engineering, SJEC (Jan 2023 Onwards)
- Program Chair, 2025 IEEE DISCOVER, 9th IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics, Oct 17-18, 2025
- Organizing Chair, 2024 IEEE DISCOVER, 8th IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics, Oct 18-19, 2024
- NBA Program Coordinator for CSE, SJEC, 2022 onwards.
- Head of Research and Facilities Group, SJEC, 2021-23
- BoS Member, Dept of CSE, SJEC, 2021-22 Onwards
- BoS Member, Dept of Information Technology, St Johns College of Engg and Mgmt, Palghar, Maharashtra, 2023-24 Onwards
- BoE Member, M.Sc. Cyber Security, Mangalore University, 2022-23 onwards
- Institute level KSCST Student Project Coordinator, VCET, 2015-2020

- NBA Program Coordinator for CSE (VCET, 2019-20)
- Co-Convener for Annual day programme, VCET - 2015, 2016, 2017
- Project Coordinator for CSE, VCET, 2009-12
- Institute level coordinator for Library Cell, VCET, 2014-17
- Convener for National Conference on Signal and Image Processing, VCET, 05-06 May 2015.

RESEARCH INTEREST

- Area: Computer Vision, Artificial Intelligence, Machine Learning.
- Ph.D Thesis Title: *Efficient Algorithms for Identity assurance using Multibiometrics*, Research Guide: Dr. B. H. Shekar. Mangalore University.
- Worked as a Research Associate for the DST-RFBR sponsored International Collaborative Research Project with Moscow State University, Russia for “Spatial Modelling of Human Faces for Real time Analysis and Classification” in Dept. of Computer Science, Mangalore University during 2010-11. (Principal Investigator: Dr. B. H. Shekar)
- Served as Session Chair for a number of conferences (2024 COSMIC at Sahyadri College, 2023 DISCOVER etc.)
- Reviewed manuscripts for conferences and journals.

PROJECT GRANT

- Guided projects related to *Computer Vision and Machine Learning* that received grants from KSCST
 1. *Promotional Email Unsubscription Using Web Extension*, 2023-24.
 2. *Android Application for Fall Army Worm Identification on Maize using Deep Learning*, 2021-22.
 3. *Video Synopsis: Automatic Surveillance Video Abstracting System*, 2015-16, The project is also selected for final exhibition held at Dr. P. G. Halakatti College of Engineering and Technology, Vijayapura on 19-20 Aug 2016.
 4. *Automatic video shot boundary detection and key frame extraction using gabor moments*, 2013-14, The project is also selected for final exhibition held at BVBCET Hubli on 25-26 Jul 2014.
- *A Complete OMR Generation and Evaluation System using Open Software*, Received grant from VTU FOSS group in 2017-18.
- *Automatic Medicinal Plant Leaf Identification and Information System*, Received grant of 40,000/- by VGST, Govt. of Karnataka, 2015-16.

TEACHING

Love to teach the following subjects

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|-----------------------|-------------------------------------|
| • Machine Learning | • Design and Analysis of Algorithm |
| • Data Structures | • Automata Theory and Computability |
| • Operations Research | • Digital Image Processing |

PROFESSIONAL MEMBERSHIPS

- IEEE Member 2021-2025 *ID: 92107779*
- Joint Secretary, Executive Committee, IEEE Mangalore Subsection, 2025
- Member, Executive Committee, IEEE Mangalore Subsection, 2024
- Life member of Indian Society for Technical Education *ID: LM117055*

INVITED TALKS

- *The AI Revolution*, Dept of ECE, AJIET Mangaluru. *24-Jun-2023*
- *Implementing Major Project Work for MCA*, Dept of MCA, VCET Puttur. *23-Jan-2023*
- *Best Practices for Implementing Project Work*, Dept of CSE, SJEC. *29-Sep-2022*
- *Image Classification - ML and DL Approaches*, FDP on Emerging Paradigms in Artificial Intelligence and Data Science organized by Vishwakarma Institute of Technology, Pune. *17-Aug-2021*
- *Application of Computer Vision in Agriculture*, AICTE STTP, Manipal Institute of Technology, Manipal *13-Oct 2020*
- *Machine Learning For Societal Applications*, Invited Speaker, AICTE STTP, PACE Mangalore. *24-Aug-2020*
- *Digital Image Processing and Its Applications*, Two-days workshop, Moodalakatte Institute of Technology, Kundapura *14-Sep-2017*
- *Malab – A Mathematical perspective*, PG Dept. of Mathematics. St. Philomena College, Puttur *13-Nov-2014*
- *Introduction to Biometric Systems*, Dept of MCA, KVGCE Sullia, *29-Sep-2014*
- *Student Research Opportunities in Computer Science*, Dept of Computer Science, St. Philomena College, Puttur *27-July-2013*
- *Research in Image Processing - Under Graduate Student Perspective*, Vivekananda College, Puttur *12-Aug-2013*

ACHIEVEMENTS / AWARDS

- Secured Gold Medal in M. Tech from Mysore University. *2009*

CONFERENCES ATTENDED

- AIDE 2025: International Conference on Artificial Intelligence and Data Engineering, NMAMIT Nitte, 06-07 Feb 2025.
- COSMIC 2024: IEEE International Conference on Computing, Semiconductor, Mechatronics, Intelligent Systems, and Communications. SCEM Mangaluru 22-23, Nov 2024 (Served as session chair).
- 2024 IEEE DISCOVER: 8th IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics, 18–19 Oct 2024 (Served as organizing chair).

RESEARCH PUBLICATIONS

1. Muralikrishna S N, Raghurama Holla, Harivinod N and Raghavendra Ganiga, "Cross-Lingual Short-Text Semantic Similarity for Kannada-English Language Pair", *Computers*, MDPI, 2024, 13(9), 236; <https://doi.org/10.3390/computers13090236>. (Scopus, WoS Indexed)
2. Harivinod N; Pralhad P. Teggi; Manasa S Bharadwaj; Raksha K, "Detection of Brain Disorders Using Ocular Responses," 2024 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Mangalore, India, 2024, pp. 304-308, doi: 10.1109/DISCOVER62353.2024.10750701.
3. Pralhad P. Teggi; Harivinod N.; Muralikrishna S. N., "Assessing Variations in Water Quality Parameters: An Analysis of Variance Study for Environmental Monitoring," 2024 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Mangalore, India, 2024, pp. 84-89, doi: 10.1109/DISCOVER62353.2024.10750656.
4. Prem Iniyan R K; Pragati P Patil; Pranoy T Murali; Preeona Mendonca; Harivinod N, "Early Detection of Cardiovascular Disease Atrial Fibrillation," 2024 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Mangalore, India, 2024, pp. 298-303, doi: 10.1109/DISCOVER62353.2024.10750649.
5. Pralhad Teggi, Harivinod N. and Bharathi Malakreddy, "AIOPs based Predictive Alerting for System Stability in IT Environment", *International Conference on Innovative Trends In Information Technology*, 12-13 Feb 2022, (Scopus Indexed)
6. Pralhad P. Teggi, Harivinod N. , Bharathi Malakreddy, 2021, "AIOPS Prediction for Server Stability Based on ARIMA Model", *International Journal Of Engineering Research & Technology*, Volume 10, Issue 12, 2021
7. Harivinod N, B H Shekar, "Multimodal Biometric System Using Undecimated Dual-Tree Complex Wavelet Transform", *Advs in Intelligent System Computing*, Vol. 1413, *Soft Computing and Signal Processing*, 978-981-16-7087-9, 2021
8. Harivinod N, B H Shekar, "A bimodal biometric system using palmprint and face modality", *First International Conference on Data Analytics and Learning 2018*, 30-31 March 2018, Mysuru, India. (Scopus Indexed)
9. N Harivinod and B. H. Shekar, "Multispectral palmprint matching based on joint sparse representation," *Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG)*, 2013 Fourth National Conference on, NCVPRIPG 2013, IIT Rajasthan, Jodhpur, pp.1-4, 18-21. (Scopus Indexed)
10. M. S. Kumari, B. H. Shekar, N. Harivinod and K. R. Holla, "Monogenic scale space based region covariance matrix descriptor," in *Proceedings of the International Conference on Advances in Computing, Communications and Informatics - ICACCI '12*, 2012, p. 717. (Scopus Indexed)
11. B. H. Shekar, N. Harivinod and M. S. Kumari, "3D Face Recognition using Orientation Maps," in *First International Conference on Advances in Computing and Communications (ACC 2011)*, 2011,, pp. 1634-1643. (Scopus Indexed)
12. B. H. Shekar, N. Harivinod, M. S. Kumari, and K. R. Holla, "3D Face Recognition using Significant Point based SULD Descriptor," in *IEEE-International Conference on Recent Trends in Information Technology, ICRTIT 2011*, Chennai., 2011, pp. 981-986. (Scopus Indexed)
13. B. H. Shekar and N. Harivinod, "Orientation Map based Palmprint Recognition," in *Bilateral Russian-Indian Scientific Workshop on Emerging Applications Of Computer*

Vision, 2011, pp. 45–50.

14. Harivinod N, “Face and Palmprint based Bimodal Biometric System using Logistic Regression”, National Conference on Advances in Science, Engineering, Management. 2019, August 2019, ISBN: 978-81-934215-3-6. pp:93-96
15. Harivinod N, Pooja P, Nithesh Kumar H, Ashritha B S, Gururaj G Hegde, “Cocoa Care - An Android Application for Cocoa Disease Identification”, International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 5 Issue: 6, 440 – 444, June 2017, ISSN: 2321-8169
16. Harivinod N, Chaithra P V, Prajna S N, Nikita and Harshitha R, “Video Synopsis: Automatic Surveillance Video Abstracting System”, In proceedings of JnanaSangama-2016: A national level student conference, Puttur, 03 May 2016, ISBN: 978-81-930416-1-2, pp:201-205
17. Harivinod N, Ramya H, Roopa R N, Sandhya, Ashwitha Rai, “Automatic Leaf Identification System”, In proceedings of JnanaSangama-2016: A national level student conference, Puttur, 03 May 2016, ISBN: 978-81-930416-1-2, pp:168-171
18. Harivinod N, Vyshali K N, Sumadhura, Sharanya K, Shreevani K, “A Computer Vision Based Automatic Bank Cheque Processing System”, Proceedings of National Conference on Signal and Image processing 2015, ISBN:978-81-930416-0-4, pp:6-10