

## Profile

- **Name** : Dr. Arjun Vithalrao Mane
- **Department** : Digital and Cyber Forensic
- **Designation** : Assistant Professor
- **Mobile Number** : +91 – 9923616649
- **Email** : arjunmane7113@gmail.com

<b>Educational Qualification</b>				
<b>Qualification</b>	<b>Subject / 's</b>	<b>University</b>	<b>Year</b>	<b>Grade</b>
BSc	Physics, Maths, Computer Science	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	2004	First Class
MSc	Computer Science		2006	First Class
PhD	Computer Science		2010	

**PhD Thesis Title** : “Development of Human Face Recognition Technique for Digital Rights Management Based On Principal Component Analysis (PCA)”

<b>Career profile</b>		
<b>Teaching Experience</b>	<b>Area of Interest</b>	<b>Courses and Subjects taught</b>
11 Yrs	Biometrics, Image Processing	<u>B. Sc. Computer Science</u> : Applied Mathematics, Linear Algebra <u>M. Sc. Computer Science</u> : Object Oriented Programming in C++, Operation Research, Numerical Methods, Discrete Mathematics <u>B. Sc. Forensic Science</u> : Digital and Cyber Forensic <u>M. Sc. Forensic Science</u> : Biometrics, Image Processing

<b>Publications</b>	
<b>Conferences</b>	
1. Amol D. Vibhute, Karbhari V. Kale, Sandeep V. Gaikwad, and Arjun V. Mane. "Machine Learning Approach for Road-Line Extraction in Complex Urban Environments from High-Resolution Hyperspectral Image." . In Proceedings of the First International Conference on Advances in Computer Vision and Artificial Intelligence Technologies (ACVAIT 2022) (pp. 511-520). Atlantis Press, 2023. <a href="https://doi.org/10.2991/978-94-6463-196-8_39">https://doi.org/10.2991/978-94-6463-196-8_39</a>	
2. S. V. Gaikwad, A. D. Vibhute, K. V. Kale and A. V. Mane, "Vegetation cover classification using Sentinel-2 time-series images and K-Means clustering," 2021 IEEE Bombay Section Signature Conference (IBSSC), 2021, pp. 1-6, doi: 10.1109/IBSSC53889.2021.9673181.	

3. A. D. Vibhute, S. V. Gaikwad, K. V. Kale and A. V. Mane, "Hyperspectral Image Unmixing for Land Cover Classification," 2021 IEEE India Council International Subsections Conference (INDISCON), 2021, pp. 1-5, doi: 10.1109/INDISCON53343.2021.9582217
4. S. D. Raut, V. T. Humbe and **Arjun V. Mane**, "Development of biometric palm vein trait based person recognition system: Palm vein biometrics system," 2017 1st International Conference on Intelligent Systems and Information Management (ICISIM), Aurangabad, India, 2017, pp. 18-21. doi: 10.1109/ICISIM.2017.8122140
5. B. V. Mane, **Arjun V Mane**, and K V Kale "Automated Face Recognition: A Multi Feature Space Approach", National Conference on Advances in Computing, Jalgaon 24-25 MARCH, 2017.
6. Vijaya Kale, **Arjun V Mane**, R. R. Manza, K. V. Kale, "Segmentation of Remote Sensing Image for Identification of Vegetation", Map Asia 2010, 9th Annual Asian Conference and Exhibition on Geospatial Information, Technology and Application, International Conference, July 26th to July 28th 2010, at Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia.
7. Shaikh Abdul Hannan, **Arjun V. Mane**, R. R. Manza , R. J. Ramteke, "Prediction of Heart Disease Medical Prescription Using Radial Basis Function", IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) 28th and 29th December, 2010, Coimbatore, Tamilnadu India
8. **Arjun V Mane**, Ramesh R Manza, and K V Kale "Analysis of Principal Component Analysis (PCA) based Face Recognition: Effects of Similarity Measure", First International Conference on VLSI, Communication, Computation And Security, Karunya University, Coimbatore, Tamil Nadu 2010.
9. **Arjun V Mane**, M M Kazi, Ramesh R Manza, and K V Kale "Human Face Recognition Using Superior Principal Component Analysis (SPCA)", International Symposium on Computer Engineering & Technology (ISCET), RIMT - IET, Mandi Gobindgarh 2010.
10. **Arjun V Mane**, Ramesh R Manza, and K V Kale "Rank Normalization for Principal Component Analysis Based Face Recognition", NCETACS, 2010 Shillong
11. Ganesh Magar, **Arjun V Mane**, "Application of Multiresolution Technique for SAR image compression", Proceeding of National conference on Recent Trends in Information Technology, Govt. College Mandya (KA) 2009
12. **Arjun V Mane**, Ramesh R Manza, and K V Kale "Human Face Recognition for Digital Rights Management: An Overview", Proceeding of National conference on Emerging Trends in Information Technology, VIIT Baramati 2006
13. **Arjun V Mane** "Detection of Information from OMR Sheet", in Proc. Of National conference (TSYGCECA06) Organized by Govt. College of Engineering Aurangabad, PP. 27-28, 2006.
14. **Arjun V Mane**, Pramod C Kalshetti, and Kishor S Gund, "E-Elections of University Authorities: Dr. Babasaheb Ambedkar Marathwada University, Aurangabad as per Maharashtra University Act1994" in Proc. of National conference (CSIP) Organized by J. N. E. College, Aurangabad, 2006.

## Journal

1. Yogesh Ghogare, Mamata R. Lanjewar, **Arjun Mane**, Sanjay R. Thakare, and Twinkle S. Wankhede. 2025. "Aqueous Method Synthesis and Characterization of SiO<sub>2</sub>@CsPbBr<sub>3</sub> Thin Film Structured Materials". Metallurgical and Materials Engineering 31 (4):237-42. <https://doi.org/10.63278/1429>.
2. Harishchandre, A., Lanjewar, M.R., **Mane, A.** et al. Solvothermal Synthesis of CsKTiCl<sub>6</sub> Halide Double Perovskite and Its Application as a Photocatalyst for the Degradation of Rhodamine B and Latent Fingerprint Development Analysis in Forensic Science. J Inorg Organomet Polym (2025). <https://doi.org/10.1007/s10904-025-03784-7>
3. Amol D. Vibhute, Minhaj Khan, Chandrashekhar H. Patil, Sandeep V. Gaikwad, **Arjun V. Mane**, Kanubhai K. Patel," Network anomaly detection and performance evaluation of Convolutional Neural Networks on UNSW-NB15 dataset", Procedia Computer Science, Volume 235, 2024, Pages 2227-2236, ISSN 1877-0509, <https://doi.org/10.1016/j.procs.2024.04.211>.
4. Amol D. Vibhute, Chandrashekhar H. Patil, **Arjun V. Mane**, Karbhari V. Kale," Towards Detection of Network Anomalies using Machine Learning Algorithms on the NSL-KDD Benchmark Datasets", Procedia Computer Science, Volume 233, 2024, Pages 960-969, ISSN 1877-0509, <https://doi.org/10.1016/j.procs.2024.03.285>.
5. Majharoddin Kazi, Karbhari Kale, Raddam Sami Mehsen, **Arjun Mane**, Vikas Humbe, Yogesh Rode, Siddharth Dabhade, Nagsen Bansod, Arshad Razvi, and Prapti Deshmukh. "Face, Fingerprint, and Signature based Multimodal Biometric System using Score Level and Decision Level Fusion Approaches". IETE Journal of Research 0, no.0 (2023): 1-20. (Article in Press) <https://doi.org/10.1080/03772063.2023.2217784>
6. S. Kumar, S. S. Gornale, R. Siddalingappa, and **Arjun Mane**, "Gender Classification Based on Online Signature Features using Machine Learning Techniques", Int J Intell Syst Appl Eng, vol. 10, no. 2, pp. 260–268, May 2022. <https://ijisae.org/index.php/IJISAE/article/view/2020/712>
7. B. V. Mane, **Arjun V Mane**, and K V Kale, "Multimodal Biometric Recognition System Based on Face and Voice: A Hybrid Approach", Journal of Basic Sciences, March 2017, Pages 1-6
8. **Arjun V Mane**, Yogesh S Rode, and K V Kale, "Novel Multiple Impression based Multimodal Fingerprint Recognition System", International Journal of Computer Applications, Volume 27– No.8, August 2011 Pages 26-30.
9. M J Baheti, **Arjun V Mane**, M S Hannan and K V Kale, "Comparison of PCA and SVM for a West Indian Script-Gujarati", CiiT International Journal of Digital Image Processing, Vol 3, No 11, July 2011 Pages 709-715.
10. M M Kazi, **Arjun V Mane**, Ramesh R Manza, and K V Kale, "Comparison of fingerprint enhancement techniques through Mean Square Error and Peak-Signal to Noise Ratio", International Journal on Computer Science and Engineering, Vol. 3 No. 1 Jan 2011, Pages 266-270
11. **Arjun V Mane**, Ramesh R Manza, and K V Kale "The Role of Similarity Measures in Face Recognition", International Journal of Computer Science and Application IJCSA-2010, Vol. 1, Pages: 62-65.
12. **Arjun V Mane**, Ramesh R Manza, and K V Kale "Human Face Recognition

Using Superior Principal Component Analysis (SPCA)", IJCTE IACSIT Vol. 2, No 5, October, 2010, Pages: 688-691

13. **Arjun V Mane**, Ramesh R Manza, and K V Kale "Analysis of Principal Component Analysis (PCA) based Face Recognition: Effects of Similarity Measure", International Journal on Information & Communication Technologies, Vol.3 No.3-4, July-December 2010, Pages: 259-263.

**Book**

**Mane Arjun**, Kale Karbhari, "Face Recognition Using Principal Component Analysis", LAP Lambert Academic Publishing, United State (ISBN 13: 9783659673641)