Profile

1	Name of the Faculty	Ayesha Heena	pht
2	Date of joining	01/12/2022	
3	Email id	ayeshaheena31@gmail.com	
4	Designation	Assisstant Professor	
5	Department	Artificial Intelligence and Machine Learning	

6	Education Qualifications	M.Tech (Ph.D)			

7	Work Experience	Teaching	Research	Industry	Others
		22	7	-	-

8	Area of Specialization	Image Processing

9	Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	UG/PG

10	No. of papers published in National/ International Journals/ Conferences		
	Journals	National	International
		2	3
	Conferences	National	International
		2	6
	Research Guidance		
	Master Degree	Completed	Ongoing
		yes	-
	Ph.D.	-	yes

11	Projects Carried out	-	-
12	Patents	-	-
13	Technology Transfer	-	

14	Publications in International/ National Journal

PUBLICATIONS

1. A. Heena, N. Biradar and N. M. Maroof, "Comparative Analysis of Fractional Order Calculus in Image Processing," 2019 1st International Conference on Advances in Information Technology (ICAIT), 2019, pp. 180-183, doi: 10.1109/ICAIT47043.2019.8987396.

2. Heena, A., Biradar, N., Maroof, N.M. *et al.* Machine learning based biomedical image processing for echocardiographic images. *Multimed Tools Appl* (2022). https://doi.org/10.1007/s11042-022-13516-5.

3. Heena, Ayesha Biradar, Nagashettappa and Maroof, Najmuddin M, Design and Implementation of Fractional Order Integral Filter for Denoising of Echocardiographic Images (November 23, 2020). Proceedings of the 2nd International Conference on IoT, Social, Mobile, Analytics & Cloud in Computational Vision & Bio-Engineering (ISMAC-CVB 2020), Available at SSRN: https://ssrn.com/abstract=3735736 or http://dx.doi.org/10.2139/ssrn.3735736

4. Heena, Ayesha & Biradar, Nagashettappa & Maroof, Najmuddin. (2021). Comparative Analysis of Various Medical Image Segmentation Techniques. 10.47531/MANTECH/ECC.2021.32.

5. Heena, A., Biradar, N., Maroof, N.M. (2022). Machine Learning Based Detection and Classification of Heart Abnormalities. In: Chen, J.IZ., Tavares, J.M.R.S., Iliyasu, A.M., Du, KL. (eds) Second International Conference on Image Processing and Capsule Networks. ICIPCN 2021. Lecture Notes in Networks and Systems, vol 300. Springer, Cham. https://doi.org/10.1007/978-3-030-84760-9_2.

6. Ayesha Heena, Nagashettappa Biradar, Najmuddin M Maroof, Vishwanath P, Processing of echocardiographic images using segmentation, feature extraction and classification for detection of heart abnormality, Global Transitions Proceedings, Volume 3, Issue 1, 2022, Pages 13-19, ISSN 2666-285X, https://doi.org/10.1016/j.gltp.2022.04.003.

7. Ayesha Heena, et. al. "Neural Network Based Abnormality Classification of Echocardiographic Images." International Journal of Engineering Research and Applications (IJERA), vol.12 (07), 2022, pp 23-31.

8. Ayesha Heena, et. al. "Neural Network based Classification of Echocardiographic Images", published in LINO Journal Vol 11, Issue-1-2020-S.NO.27.

9. A. Heena, N. Biradar, N. M. Maroof, S. Bhatia, A. Mashat *et al.*, "Image enhancement using adaptive fractional order filter," *Computer Systems Science and Engineering*, vol. 45, no.2, pp. 1409–1422, 2023.

10. Ayesha Heena, et. al. "Abnormality Classification Using Convolutional Neural Network

for Echocardiographic Images" in communication.

11. Published a book chapter in book titled "Biomedical Signal Processing for Health care Applications" first edition, published by CRC PRESS (Taylor and Francis). The chapter 3 titled "Analysis and Classification of Heart Abnormalities". ISBN 9780367705879. DOI https://doi.org/10.1201/9781003147817.