Biomedical Image Processing Lab, Research Student List under the Guidance of

Dr. Ramesh R. Manza

(Professor)

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

1. **Ph. D. Students**

   a. Ph. D. Students (Awarded)

Sr. No	Name of Student	Research Topic	Date of Registration	Date of Completion
1.	Mr. Babasaheb Bhalerao	Fingerprint recognition in Noisy Environment	June 2012	12/Feb/2015
2.	Mr. Bhosale Narayan	Design and development of wavelet filter to remove noise from remote sensing Images.	June 2012	27/June/2015
3.	Mr. Yogesh Rajput	Design and Development of New Wavelet Filter for Detection and Grading of Non-Proliferative Diabetic Retinopathy Lesions	Dec-2014	25/April/2017
4.	Ms. Dnyaneshwari Patil	Early Detection of Primary Open Angle Glaucoma Using Fuzzy Based Classification Techniques	Dec-2014	25/April/2017

5.	Ms. Vandana Patil	Study of Plant Species Classification Based on Digital Morphological Features of Leaf	July -2013	09/Dec/2016
6.	Mr. Gaikwad Bharatratna	Video Scene segmentation to separate Script.	June 2012	18/April/2015
7.	Ms. Shaikh Adiba	Design and Development of electronic voting machine for preferential voting system.	June 2012	03/Sep/2016
8.	Ms. Bawiskar Shobha	Design of Biomedical Nano Sensor Modeling using COMSOL technology for detection of Glucose Level from Blood flow Pattern.	June 2012	11/July/2015
9.	Mr. Pravin Sarpate	Design & Development of Multimodal Biometric System For Human Authentication Using Face And Voice Modalities	Dec-2014	02/Feb/2019
10.	Ms. Deepali Rathod	A Novel Approach to Design New Wavelet Filter for Extraction of Retinal Blood Vessels to study vascular abnormality and for Classification of Non-Proliferative Diabetic Retinopathy Lesions	Dec-2014	18/Feb/2019
11.	Ms. Manjiri Patwari	Automatic detection and diagnosis of diabetic retinopathy symptoms using color image segmentation.	June 2012	26/Sep/2015
12.	Ms. Kiran Mundhe	Early Detection of Non-Proliferative Diabetic Retinopathy Using Multi Scale Resolution Analysis Techniques	July 2012	18/Nov/2015
13.	Ms. Sonali Gaikwad	Design and Development of Novel Classifier for Diabetic Retinopathy Features Database Classification	Dec-2014	14/Sept/2018
14	Ms. Rabiya Begum	Design and Development of Enhanced ECG Monitoring System	December 2016	03/Apr/2021

15.	Ms. Anupriya Kambale	Design and Development of Novel Pattern Recognition Based Expert System for Diagnosis of Diabetes and Prescription of drugs	July 2017	10/Apr/2021
16.	Mr. Ambilwade Revindra	An Expert System for Diagnosis & Recommendations for Medication & Curative Treatment of Diabetes using Soft Computing Techniques.	June 2012	10/May/2021
17.	Ms. Shazia Shaikh	Design and Development of Thermal Image Acquisition System for Medical Diagnosis	December 2016	12/May/2021

b. Ph. D. Students Thesis (Submitted)

Sr. No	Name of Student	Research Topic	Date of Registration
NIL	NIL	NIL	NIL

c. Ph. D. Students (Working)

Sr. No	Name of Student	Research Topic	Date of Registration
1.	Mr. Chetan Pattebahadur	Design Novel Mobile Base Detection, Classification and Grading Technique for Early Diagnosis of Diabetic Maculopathy	July 2019
2.	Mr. Sushil Gawhale	Design and Development of Novel Penetration testing Technique for Web Application using Python and go Golang on Raspberry Pi	June 2018
3.	Ms. Monali Rathod	Cost effective method for automatic detection of diabetic neuropathic ulcer using Raspberry pi	June 2018
4.	Ms. Deepali Lohare	Design & Development of Detection of Brain Tumor Recognition System	June 2018

5.	Mr. Manoj Mhaske	Design and Development of an Automated System for Lung Cancer Detection with Nodule Segmentation and Classification	June 2018
6.	Mr. Pawan Kamble	Design and Development of Marathi Speaker Recognition Using MFCC & HMM	December 2016
7.	Mr. Sachin Chavan	-	-
8.	Mr. Kakasaheb Nikam	Early Stage Detection and Recognition of HERPES (NAGIN) on EYE by using various techniques of Image Processing	March 2021

d. Ph. D. Co-Guide

Sr. No	Name of Student	Research Topic	Date of Registration
1.	Ms. Anjali Shelkikar	DETECTION OF MACULAR EDEMA IN ACUTE PHASE THROUGH OPTICAL COHERENCE TOMOGRAPHY	April 2021

2. M. Phil Students

a. M. Phil Students (Awarded)

Sr. No	Name of Student	Research Topic	Date of Registration
1.	Ms. Swapnaja R. Gadre	Centering and Realignment of 3D MRI Images using Genetic Algorithm.	2008
2.	Ms. Aparna Vinayak Kulkarni	Enhancement of mammographic images for medical diagnosis by using gray level transformation.	2008
3.	Ms. Jadhav Mukti Eknathrao	Detection of Drug Resistant Tuberculosis Bacteria Using Microarray analysis.	2008
4.	Ms. Seema Wadte	Cognitive Science a Methodological Framework for Social Development.	2008
5.	Mr. Aqueel Ahmed	Representation of Graphical Data in GIF.	2008

6.	Ms. Vaishali Kulkarni	Digital Rights of Documents to Digital Signature.	2008
7.	Mr. Shaikh Naeem Hamid	X-ray Image data analysis for diagnosis of Bone Fractures.	2008
8.	Mr. Syed Mahedi Arefoddin	Computer Assisted 3-Dimensional surgical planning.	2008
9.	Mr. Nimbhore Sunil	Study of various protocols used in distributed system & parallel Systems.	2008
10.	Mr. Abdul Hannan	Association Rules of Data Mining techniques for verification of medicine contents related to Cardiac Problems.	2009
11.	Ms. Rupali P. Patil	A case study on Computer Aided learning to improve primary education in rural area.	2009
12.	Ms. Priya Dilip Chaudhari	Source Code Analyzer to Analyze Program Based On Syntax Tree Approach.	2009
13.	Ms. Pohnerkar Sonali V.	Edge Detection in Color Image by Applying Gradient Operations	2009
14.	Ms. Shubhashree S. Savant	Color Edge Detection Using Gradient.	2010
15.	Mr. Satish Zende	Use of IT Applications in Administration of University and Colleges in Marathwada Region and MKCL's Innovative	2013
16.	Ms. Priti Sodmise	Multi Biometric Wavelet Based Fusion Technique for Personal Identification	June 2012

b. M. Phil Students (Awarded)

Sr. No	Name of Student	Research Topic	Date of Registration
1.	Mr. Kayte Sangramsing	Design and Development of Non-proliferative Diabetic Retinopathy Detection Technique using Image Features Extraction Techniques	June 2011
2.	Mr. Vijay Shirale	Design and Development of Local Feature Extraction Technique for Diagnosis of Disease in Chest Radiography Images	June 2012
3.	Ms. Vaishali Shinde	Diagnosis of vision related Diseases using Confocal Laser Scanning Ophthalmoscope Image Analysis.	June 2012

4.	Ms. Deepali Rathod	Retinal Vessel Segmentation using Match Filtering	June 2013
5.	Mr. Yogesh Rajendra	Study and Interpretation of Terrestrial Laser Scanning for 3D Modeling of DCSIT	June 2013
6.	Mr. Yogesh Rajput	Detection of Non-Proliferative Diabetic Retinopathy using Multi Resolution Analysis	June 2014
7.	Ms. Gangadevi Bedke	Development of secondary glaucoma diagnosis technique using nerve fiber layer analysis.	June 2014
8.	Ms. Dnyaneshwari Patil	Development of primary glaucoma diagnosis technique using optic disc and cup ratio	June 2014
9.	Mr. Jaypalsing Kayte	Analysis of Cardiac MRI to Find out Cardiovascular Disease using Automatic Segmentation Techniques	June 2014
10.	Mr. Manoj Mhaske	Analysis and detection of diabetic retinopathy in retinal images using image features extraction techniques	June 2011
11.	Ms. Poonam Rokde	Early detection of Non-Proliferative Diabetic Retinopathy using dual tree complex wavelet transform	June 2013
12.	Ms. Monali Rathod	Detection of Diabetes and early detection of Peripheral Neurological Disorder using non-invasive thermal image processing technique on Plantar Foot	June 2015
13.	Ms. Rabiya Begam Mohd Saleem	Detection of Cardiomyopathy Using Neuro Fuzzy Logic	June 2015
14.	Ms. Shaziya Shaikh	Thermography for analysis of skin thermal images for diagnosis of skin cancer	June 2015
15.	Ms. Anupriya Kamble	Classification of Insulin Dependent Diabetes Mellitus	June 2016
16.	Mr. Sushil N. Gawhale	Development of Penetration Testing Technique for Windows & Linux Networks in Virtual Environment	June 2016
17.	Mr. Chetan Pattebahadur	Design Novel Detection Classification Grading	June 2017

Sr. No	Name of Student	Research Topic	Date of Registration
		Technique For Early Diagnosis of Diabetic Maculopathy.	-
18.	Mr. Sagar Vakhare	Analysis of Interpolation Methods for Prediction of Climate Records in Aurangabad District of Maharashtra	June 2017

c. M. Phil Students (Working)

Sr. No	Name of Student	Research Topic	Date of Registration
1.	Ms. Surekha Meghde	Predicting Thorax Diseases with NIH Chest X-Rays.	June-2017
2.	Ms. Meraj Begum Shaikh Ismail	Lung cancer detection using image segmentation by means of various evolutionary algorithms.	June-2018
3.	Ms. Sujata Ambhore	Development of Spirometry to take lung function test	June-2018
4.	Ms. Sujata Satpute	Automatic gap estimation and localization between spinal column vertebrae using computer vision techniques.	June-2018
5.	Ms. Sonali Gunjal	Texture Analysis Method in Biomedical Image Processing	June 2019
6.	Ms. Sheeba Khan	-	-

3. M. Tech Students

a. M. Tech Students (Awarded)

Sr. No	Name of Student	Research Topic	Year
1.	Dr. Rakesh Ramteke	Automated Analysis of Sperm Motility and Morphology	June 2011
2.	Mr. Harish Khodke	Pattern Matching and analysis of Handwritten Digits	May 2013
3.	Dr. Bharatratna Gaikwad	Image Scene Segmentation and Recognition on Texture Base Approach	June 2011

4. Project Fellow

Sr. No	Name of Student	Research Topic	Year
1.	Mr. Yogesh M. Rajput	Development of Color Image Segmentation and Filtering Technique for Early Detection of Diabetic Retinopathy	June 2012 To June 2015
2.	Ms. Deepali D. Rathod	Development of Multi Resolution Analysis Technique for Early Detection of Non-Proliferative Diabetic Retinopathy without using Angiography	June 2013 To June 2017

5. Fellowship Students

a. Ph. D. Fellowship Students

i. Rajiv Gandhi National Fellowship (RGNF)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
1.	Ms. Anupriya Kamble	Classification of Insulin Dependent Diabetes Mellitus	July 2015	Completed

ii. Maulana Azad National Fellowship (MANF)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
1.	Ms. Rabiya Begum	Design and Development of Enhanced ECG Monitoring System	December 2016	Completed
2.	Ms. Shazia Shaikh	Design and Development of Thermal Image Acquisition System for Medical Diagnosis	December 2016	Completed

iii. National Fellowship for Scheduled Caste Students (NFSC)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
1.	Mr. Chetan Pattebahadur	Design Novel Mobile Base Detection, Classification and Grading Technique for Early Diagnosis of Diabetic Maculopathy	July 2019	Working

iv. Dr. Babasaheb Ambedkar Research and Training Institute (BARTI)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
1.	Mr. Pawan Kamble	Design and Development of Marathi Speaker Recognition Using MFCC & HMM	December 2016	Working
2.	Mr. Manoj Mhaske	Design and Development of an Automated System for Lung Cancer Detection with Nodule Segmentation and Classification	June 2018	Working
3.	Mr. Sushil Gawhale	Design and Development of Novel Penetration testing Technique for Web Application using Python and go Golang on Raspberry Pi	June 2018	Working

v. Chhatrapati Shahu Maharaj Research Training and Human Development Institute (SARTHI)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
-	-	-	-	-

vi. Dr. B. A. M. U. Fellowship for Ph. D.

Sr. No	Name of Student	Research Topic	Date of Registration	Status
1.	Ms. Shaikh Adiba	Design and Development of electronic voting machine for preferential voting system.	June 2012	Completed
2.	Mr. Bhosale Narayan	Design and development of wavelet filter to remove noise from remote sensing Images.	June 2012	Completed

b. M.Phil. Fellowship Students.

i. Rajiv Gandhi National Fellowship (RGNF)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
1.	Ms. Anita Khandizhod	Design and Development of Wavelet Filter for Feature Extraction of Multispectral Palmprint	June 2012	Completed
2.	Ms. Poonam Rokde	Early detection of Non-Proliferative Diabetic Retinopathy using dual tree complex wavelet transform	June 2013	Completed
3.	Ms. Anupriya Kamble	Classification of Insulin Dependent Diabetes Mellitus	July 2015	Completed

ii. Maulana Azad National Fellowship (MANF)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
1.	Ms. Rabiya Begam Mohd Saleem	Detection of Cardiomyopathy Using Neuro Fuzzy Logic	2015	Completed
2.	Ms. Shaziya Shaikh	Thermography for analysis of skin thermal images for diagnosis of skin cancer	2015	Completed

iii. National Fellowship for Scheduled Caste Students (NFSC)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
1.	Mr. Chetan Pattebahadur	Design Novel Detection Classification Grading Technique For Early Diagnosis of Diabetic Maculopathy.	June 2017	Completed

iv. Dr. Babasaheb Ambedkar Research and Training Institute (BARTI)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
1.	Ms. Sujata Ambhore	Development of Spirometry to take lung function test	June-2018	Working
2.	Ms. Sujata Satpute	Automatic gap estimation and localization between spinal column vertebrae using computer vision techniques.	June-2018	Working

v. Chhatrapati Shahu Maharaj Research Training and Human Development Institute (SARTHI)

Sr. No	Name of Student	Research Topic	Date of Registration	Status
-	-	-	-	-