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(71)**Name of Applicant :**
1)Painam Surendrakumar
Address of Applicant :Dr. Painam Surendra kumar, Associate Professor, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. ---------- ----------
2)Smt.Dasari Swetha
3)Mr. Tatikonda Krishna Chaitanya
4)Mr. P Sumanth Kumar
5)Smt. Ch Madhavi
6)Ms. Chilakalapudi poojitha,
7)Ms. Mudda Priyanka,
8)Mr. Thirumalasetty Sai Charan
9)Mr. Kompala Mahesh Chandra,
10)Mr. Gorrela Sampath
11)Bapatla Engineering College
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Smt.Dasari Swetha
Address of Applicant :Smt.Dasari Swetha, Assistant Professor, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India Bapatla ---------- ----------
2)Mr. Tatikonda Krishna Chaitanya
Address of Applicant :Mr. Tatikonda Krishna Chaitanya, Assistant Professor, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. Bapatla ---------- ----------
3)Mr. P Surendra Kumar
Address of Applicant :Mr. P Surendra Kumar, Assoc. Professor, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. Bapatla ---------- ----------
4)Mr. P Sumanth Kumar
Address of Applicant :Mr. P Sumanth Kumar, Assistant Professor, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. Bapatla ---------- ----------
5)Smt. Ch Madhavi
Address of Applicant :Smt. Ch Madhavi, Assistant Professor, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. Bapatla ---------- ----------
6)Ms.Chilakalapudi poojitha,
Address of Applicant :Ms.Chilakalapudi poojitha, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India Bapatla ---------- ----------
7)Ms. Mudda Priyanka
Address of Applicant :Ms. Mudda Priyanka, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. Bapatla ---------- ----------
8)Mr. Thirumalasetty Sai Charan
Address of Applicant :Mr. Thirumalasetty Sai Charan, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. Bapatla ---------- ----------
9)Mr. Kompala Mahesh Chandra
Address of Applicant :Mr. Kompala Mahesh Chandra, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. Bapatla ---------- ----------
10)Mr. Gorrela Sampath
Address of Applicant :Mr. Gorrela Sampath, Department of Electronics and Communication Engineering, Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. Bapatla ---------- ----------
11)Bapatla Engineering College
Address of Applicant :Bapatla Engineering College, Bapatla-522102, Andhra Pradesh, India. Bapatla ---------- ----------

(57) Abstract :
The objective of this study was to assess the stability of radiomic features obtained from contrast-enhanced 2D mammograms of confirmed benign tumor. As subjects, fifteen mammogram images were chosen from the Cancer Imaging Archive datasets. Images were processed and analyzed using MATLAB as software. Mammogram images were made more visible by employing Adaptive Histogram Equalization (AHE), Contrast Limited Adaptive Histogram Equalization (CLAHE), and Bi-Histogram Equalization techniques. Subsequently, radiomic features were extracted via semiautomatic segmentation using the snakes model. The extracted features were evaluated by computing intra-class correlation coefficients (ICC). According to the findings, radiomic features extracted from Bi-Histogram equalization are more reproducible and robust than those extracted from the CLAHE and AHE groups. This approach may be used to forecast patients outcomes with breast cancer.

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