Notifications

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Notifications

[JOIN] Editor Decision

2024-05-06 02:56 AM

Joko Riyono:
The editing of your submission, "K-Means Clustering of Lung Disease Based on The Result of X-Ray Segmented Image," is complete. We are now sending it to production.
Submission URL: https://join.if.uinsgd.ac.id/index.php/join/authorDashboard/submission/1178
Please ensure the authorship, affiliation, and metadata in OJS have been corrected in the editing document. This is the last opportunity to make substantial copyediting changes to the submission. The proofreading stage, which follows the preparation of the galleys, is restricted to correcting typographical and layout errors. We are not responsible for changes after the article is published. If you are unable to undertake this work at this time or have any questions, please contact me. We will be waiting for your confirmation and correction until May 08, 2024. Thank you for your contribution to this journal.
Regards,
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K-Means Clustering of Lung Disease Based on The Result of X-Ray Segmented Image

Commented [A1]: In the end, the initiative holds great importance and has the potential to exert a huge impact. Nevertheless, the selection of alternatives is unremarkable and lacks novelty.

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Article history:

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ABSTRACT

The lungs are one of the vital organs in the human body. Not only play a role in the respiratory system, the lungs are also responsible for the human circulatory system. Supporting examinations can also facilitate medical workers in determining the diagnosis. Usually a lung examination is complemented by a chest X-ray examination procedure. This examination aims to see directly and assess the severity of lung conditions. With current technological advances, image analysis can be done easily. Through digital image processing methods, information can be obtained from images that can be used for analysis as a support for diagnoses in the world of health. Image segmentation is a method in which digital images are divided into several segments or subgroups based on the characteristics of the pixels in the image. In this study, clustering with the K-Means method will be carried out on the results of segmentation of x-ray images of lung diseases, namely Covid-19, Tuberculosis, and Pneumonia. The segmentation method that will be implemented is the ChaCharn-Vese Method and the Canny Edge Detection Method. This research shows that the results of the accuracy of applying the K-Means Clustering method to Chan-Vese and Canny Edge-Based Image Segmentation are 80%.

Corresponding Author:

1. INTRODUCTION

The lungs are one of the vital organs in the human body. Not only play a role in the respiratory system, the lungs are also responsible for the human circulatory system. Lung health can be influenced by many factors such as lifestyle, environmental hygiene, and heredity (Niederman & Cilloniz, 2022). If there is a malfunction in the lungs, human health will be disrupted as a whole. Therefore, examination of lung malfunction should be done as early as possible.

The procedure carried out in a lung examination usually requires investigations because lung diseases generally have similar symptoms such as coughing, fever, decreased body weight, loss of appetite, and so on (Smithard & Yoshimatsu, 2022). Supporting examinations can also facilitate medical workers in determining the diagnosis. Usually a lung examination is complemented by a chest X-ray examination procedure (Natarajan et al., 2020). This examination aims to see directly and assess the severity of lung conditions.

The chest X-ray procedure provides an image based on the diffraction of electromagnetic waves, namely X-rays. The use of this light makes it possible to see human organs visually without having to do a surgical procedure (non-invasive procedure) (Bunaciu et al., 2015). This procedure produces a two-dimensional image as a representation of the condition of the lungs in the human body and basically this examination is only done through visual observation (Kiani, 2023). Therefore, of course, proper analysis is needed in determining the diagnosis through chest X-ray images.

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With current technological advances, image analysis can be done easily. Through digital image processing methods, information can be obtained from images that can be used for analysis as a support for diagnoses in the world of health. Of course, this can also be applied to chest x-ray images.

Digital image processing is one of the areas of research in computer science. Broadly speaking, digital image processing works by analyzing digital images in such a way as to obtain a more perfect image (Seeram, 2004). Not only that, image processing in research is also used in extracting information on images as needed. To extract information on several parts of an image, it is usually done with the segmentation method first.

Basically, the segmentation method is used to separate objects in an image. Image segmentation works by dividing digital images into several segments based on the characteristics of the image. This method allows for the separation of objects from the background. This is of course very necessary in research related to image analysis to extract or obtain information from the desired parts of the image.

Image segmentation is a method in which digital images are divided into several segments or subgroups based on the characteristics of the pixels in the image (Patil & Burkpalli, 2022). This aims to reduce the detector's inference time when processing the entire image because with segmentation, the detector does not need to process the entire image but only the region selected by the segmentation algorithm. Image segmentation aims to classify areas that have similarities so that they can also distinguish objects in the image from their background (Song et al., 2021).

There are two segmentation techniques that are often used and can be divided into two categories, namely Region Segmentation which is a segmentation technique to find regions that meet certain homogeneity criteria such as finding color values that have similarities with other pixels so that they can be used as one region and Edge-Based Segmentation which is a technique for finding edges between regions between different characteristics (Z. Wang et al., 2018).

The Chan-Vese strategy could be a locale division procedure, which could be a strategy that works without borders. The dynamic form show is one of the working models of division procedure that employments vitality and constrain imperatives on the picture into cluster locales (Song et al., 2021). The dynamic form demonstrate is commonly utilized in different picture preparing applications, particularly in therapeutic picture processing such as chest X-ray pictures, brain CT looks or MRI pictures of organs. Positive edge models are utilized in advanced picture preparing by pixel separation. The Chan-Vese strategy is utilized to distinguish visual objects with developmental energies. The advancement of the Mumford-Shah demonstrate and this demonstrate is based on the vitality diminishment issue, which can be re-expressed as equations of unequivocal levels, driving to a less difficult way of understanding the issue (Zheng et al., 2022).

Canny identify is an edge-based division method found by John F.Canny in 1986 (Sekehravani et al., 2020). Basically, the Canny strategy works by employing a grayscale picture as input and producing concentrated discontinuities as yield or edge images. In its application, there are steps for shrewd edge location strategy i.e.smooth or channel commotion, calculate incline quality or slope course, apply delay edge prepare setting, not max (Pradeep Kumar Reddy & Nagaraju, 2019). This strategy has criteria that moreover ended up its advantage in picture division strategy, specifically Canny Detector has the capacity to distinguish edges based on indicated convolution parameters and is adaptable in decide the level of edge thickness discovery, to supply a least of separate between the edge of the location result and the initial edge, as it were one reaction on each edge to play down clutter within the post-processing step there (Huang et al., 2022).

Previous research has been carried out by Elsha Heny Pratiwi and Dwi Juniandi in 2022 regarding their research entitled Clustering Lung Disease Based on Chest X-Rays Using Fractal Dimensions Box Counting and K-Medoids. In his research, clustering of lung diseases was carried out based on the results of information from x-ray images of the lungs obtained through the canny segmentation method and resulted in an accuracy of 87% (Pratiwi & Juniati, 2022).

In this study, clustering with the K-Means method will be carried out on the results of segmentation of x-ray images of lung diseases, namely Covid-19, Tuberculosis, and Pneumonia. The segmentation method that will be implemented is the Chan-Vese Method and the Canny Edge Detection Method.

2. METHOD

This research was conducted through a quantitative approach because the entire process was carried out using data in the form of numbers as an analytical tool. The data in this research is a type of data in the form of images obtained from previous studies. It can be said, the data used in this study is secondary data. Secondary data is data that is already available and collected by other parties outside the agency under study(Johnston, 2014). Secondary data can generally be obtained through websites, books, articles, internal organizational records and so on (Bookstaver, 2021). In this study, data was obtained through a site that contains many types of datasets that are commonly used by researchers in conducting research, namely Kaggle.

The image data used as the research subject is an x-ray image of the chest from patients with Covid-19 lung disease, tuberculosis, pneumonia, and healthy lungs which will also be used to extract information from the image in the form of numerical data from the results of segmentated image. This numeric data will be used again in the clustering process to produce disease cluster classes based on the number of white pixel areas in the segmented image. In this study, there are several stages described as a flowchart as shown in Figure 1 below:

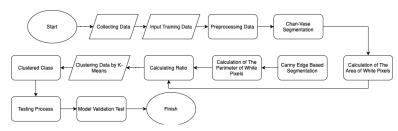


Figure 1. Research Methods Flowchart

The segmentation process applied to the image aims to obtain the features used in the analysis process, in this case, namely the white area in the segmented image (Ferreira et al., 2020). This white area represents the damaged area of the lungs. Before the segmentation process is carried out, the image goes through several two stages in the data preprocessing process, namely the Resize process, Grayscaling Process and the Filtering process with Histogram Equalization.

The image segmentation process is carried out twice, namely by the Chan-Vese method and Canny edge detection. The Chan-Vese method is an improvement from the edge-based model, because it bases edge detection on an image not based on image gradients but is based on curve evolution techniques, the Mumford-shah function for segmentation and level set (Patil & Burkpalli, 2022). This is because, detection using image gradients is less effective because discrete gradients are limited and the stop function is never null at an edge and allows the curve to pass through the existing boundaries. In the Chan-Vese model, initial contours can be applied anywhere in the image and the Chan-Vese model will automatically detect all contours, regardless of the position of the original contours. Active contour models are commonly used in various image processing applications, especially in medical image processing, such as chest X-ray images, brain CT scans or MRI images of the body. Positive edge models are used in digital image processing through pixel separation (X. F. Wang et al., 2010). The evolution of the Mumford-Shah model and this model is based on the energy reduction problem, which can be reformatted in the formula of definite levels, making the problem easier to solve (Song et al., 2021).

Edge detection in an image is a process that produces the edges of an image object, its purpose is to mark the part that becomes a detailed image. Canny edge detection is one of the edge detection algorithms that has a minimum error rate and produces optimal edge images (Sundani et al., 2019). The edge (edge) is a sudden (large) change in the value of the intensity of gray degrees in a short distance (Rong et al., 2014). The purpose of edge detection is to group objects in the image, and is also used to further analyze the image.

After the segmentation process is complete, numerical data will be obtained in the form of white pixel area in the image which will then be used in the clustering process to group the data into several

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classes, namely the Covid-19 class, Tuberculosis, Pneumonia, and Normal or healthy lung class. Mathematically, K-Means clustering is carried out in 4 stages as follows (Sinaga & Yang, 2020):

1. Initialize the centroid values randomly

$$v = \frac{\sum_{i=1}^{n} x_i}{n} = 1, 2, 3, ... n$$
 (1)

Information:

v: centroid on cluster

x_i: i-th object

n: number of objects/number of cluster member objects.

2. Place each data point to the nearest centroid by calculating the distance of each data point to the centroid in Euclidean distance

$$(x,y) = \|x - y\| = \sqrt{\sum_{i=1}^{n} (x_i - y_i)^2} | i = 1,2,3,...n$$
 (2)

Information:

xi : ith x object

yi : y-th power

n: number of objects

- Recalculate the centroid of the newly formed cluster by calculating the mean of each data point in the cluster.
- 4. Perform optimization to meet the criteria by repeating the last two steps.

3. RESULT AND DISCUSSION

The first stage in this study was to collect x-ray image data used as objects in this study. Data in the form of digital data will be processed in the Joint Photographic Experts Group (*jpeg) format. The x-ray image data used is x-ray data including Covid-19 disease, Tuberculosis, Pneumonia and healthy lungs.

Table 1. Datasets				
No.	Class	Total Data		
1	Covid-19	107		
2	Tuberculosis	651		
3	Pneumonia	752		
4	Normal Lungs	1342		

In table 1, there are types and amounts of data used in this research process. All data is collected through the Kaggle website which provides various kinds of datasets for research purposes. This data is obtained by downloading the required dataset.

The next step is image preprocessing. The image epreprocessing stage goes through three stages which aim to improve the quality of the raw data (image) before further analysis. These three stages are resizing all image sizes to 256×256 pixels so that all images are the same size, changing all RGB images to Grayscaling images, and carrying out the filtering process with the Histogram Equalization Method.

3.1. Preprocessing Process

3.1.1. Image Resizing Process

The normalization process in the image aims to change the size of the image resolution so that all images have the same resolution size. Changes in the size of the image resolution will be equated to 256×256 pixels. With a size of 256×256 pixels, the image size can be represented as a matrix with 256 rows and 256 columns(Q. Wang & Yuan, 2014) . Image size normalization process is done by imresize function via MATLAB. This process will display an image with a size of 256×256 as shown below:

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Figure 2. Resize Image

3.1.2. Grayscalling Image Process

The grayscaling process in the image aims to change the RGB (Red, Green, Blue) image to a grayscale image with an intensity of 0 to 255 (8-bit image)(Seeram, 2004). The grayscalling process in MATLAB is done with the function rgb2gray. The results of this stage can be seen in the Figure 3 below:

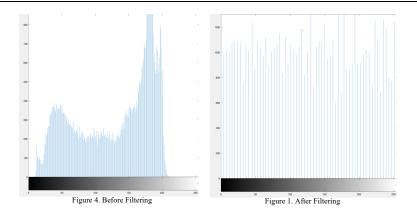


Figure 3. Grayscalling Image

3.1.3. Filtering Image Process With Histogram Equalization

Filtering process aims to improve image quality by reducing noise and adjusting image brightness. The filtering process in this research uses the Histogram Equalization method, which is a graphic equalization that represents the distribution of grayscale image intensities (Agrawal et al., 2022). The filtering process in this study uses the Histogram Equalization technique, which is a graphic equalization process that represents the distribution of grayscale image intensities (Rao, 2020). This process is done with the histeq function in MATLAB. The image on the right from Figure 5 shows that the image already has better contrast and a flatter histogram than Figure 4.

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3.2. Calculation Process of The White Area of The Chan-vese Segmentation Image

The normalization process in the image aims to change the size of the image resolution so that all images have the same resolution size. Changes in the size of the image resolution will be equated to 256×256 pixels. With a size of 256×256 pixels, the image size can be represented as a matrix with 256 rows and 256 columns (Baskar et al., 2023). Image size normalization process is done by imresize function via MATLAB. This process will display an image with a size of 256×256 as shown below:

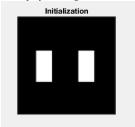


Figure 6. Initialization Mask

The segmentation process using the Chan-Vese method will produce black and white images as shown in Figure 7 which is a comparison of the images before and after segmentation.



Figure 7. Comparison of Raw and Segmented Image

The next step is to convert the segmented image into a binary image with the im2bw function and fill in imperfect image areas that have holes with the imfill function. After everything has been done,

the calculation of the area of white pixels in the image can be done with the regionprops function, which is a function in Matlab that is used to measure the properties of a binary image. Data on the area of white pixels in segmented images can be seen in Table 2 for Covid-19, Table 3 for Tuberculosis, Table 4 for Pneumonia, Table 5 for Normal Lungs.

Table 2	Area of	White	Pixels of	Covid-19	Image

No.	Data	Area	
1	'COVID19(460) Small.jpeg'	2060	
2	'COVID19(461) Small.jpeg'	2070	
3	'COVID19(462) Small.jpeg'	2313	
4	'COVID19(463) Small.jpeg'	2416	
5	'COVID19(464) Small.jpeg'	3384	

Table 3. Area of White Pixels of Tuberculosis Image

No.	Data	Area	
1	"Tuberculosis-1 Small.jpeg"	4326	
2	"Tuberculosis-10 Small.jpeg"	3676	
3	'Tuberculosis-100 Small.jpeg'	4255	
4	'Tuberculosis-101 Small.jpeg'	4462	
5	'Tuberculosis-102 Small.jpeg'	3340	

Table 4. Area of White Pixels of Pneumonia Image

No.	Data	Area	
1	'person1000_2931.jpeg'	3320	
2	'person1000_1681.jpeg'	2040	
3	'person1000_2932.jpeg'	1799	
4	'person1000_2932.jpeg'	1761	
5	'person1000_2934.jpeg'	3039	

Table 5. Area of White Pixels of Normal Lungs Image

No.	Data	Area	
1	'IM-0115-0001.jpeg'	2194	
2	'IM-0117-0001.jpeg'	1842	
3	'IM-0119-0001.jpeg'	1732	
4	'IM-0122-0001.jpeg'	2010	
5	'IM-0125-0001.jpeg'	1787	

3.3. Calculation Process of The White Area of The Canny Edge-Based Segmentation Image

The next image segmentation process uses the second method, namely Canny Edge Detection. With this process, we will find a border around the chan-vese segmented image by detecting changes in brightness levels and generating the circumference of the image as another variable needed in the clustering process.

This segmentation process uses the edge function in Matlab. By using the edge function, an image of the Canny edge detection results will be obtained as shown in Figure 9 below.



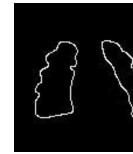


Figure 8. Chan-Vese Segmentation

Figure 9. Canny Segmentation

Through the image segmentation results from Chan-Vese and then Canny, we get the circumference of the edge that surrounds the image. The results are described in the Table 6 for Covid-19, Table 7 for Tuberculosis, Table 8 for Pneumonia, Table 9 for Normal Lungs.

Table 6. White Pixels Circumference of Covid-19 Image

No.	Data	Circumference	-
1	'COVID19(460) Small.jpeg'	499	
2	'COVID19(461) Small.jpeg'	401	
3	'COVID19(462) Small.jpeg'	376	
4	'COVID19(463) Small.jpeg'	431	
5	'COVID19(464) Small.jpeg'	446	

Table 7. White Pixels Circumference of Tuberculosis Image

No.	Data	Circumference	
1	"Tuberculosis-1 Small.jpeg"	484	
2	"Tuberculosis-10 Small.jpeg"	480	
3	'Tuberculosis-100 Small.jpeg'	474	
4	'Tuberculosis-101 Small.jpeg'	492	
5	'Tuberculosis-102 Small.jpeg'	479	

Table 8. White Pixels Circumference of Pneumonia Image

No.	Data	Circumference
1	'person1000_2931.jpeg'	586
2	'person1000_1681.jpeg'	382
3	'person1000_2932.jpeg'	394
4	'person1000_2932.jpeg'	399
5	'person1000_2934.jpeg'	346

Table 9. White Pixels Circumference of Normal Lungs Image

-				
No.	Data	Circumference		
1	'IM-0115-0001.jpeg'	491		
2	'IM-0117-0001.jpeg'	498		
3	'IM-0119-0001.jpeg'	468		
4	'IM-0122-0001.jpeg'	397		
5	'IM-0125-0001.jpeg'	491		

3.4. Calculating Ratio

So far, area and circumference data have been obtained from the segmented image. Furthermore, ratio calculations are carried out because the size of human lungs has different sizes. With this step, the data can be used for the next clustering process.

This process is done by the equation (3). For example, one of the data calculations for the Covid-

- Number of White Pixel (Canny Edge-Based Segmentation) of "COVID19(460) Small.jpeg": 491
- Number of White Pixel (Chan-Vese Segmentation) of "COVID19(460) Small.jpeg": 2060 Calculation:

The number of pixels of the canny detection image

The number of pixels of the chan-vese segmentend image

From the calculation results above it can be concluded that the number of white pixel

From the calculation results above, it can be concluded that the number of white pixels in the "COVID19(460) Small.jpeg" image is 4.12825651. The same process applies to all images and the results are as shown in the table below:

Table 10. White Pixels Ratio of Covid-19 Image

No.	Data	Circumference	Area	Ratio
1	'COVID19(460) Small.jpeg'	499	2060	0,24223301
2	'COVID19(461) Small.jpeg'	401	2070	0,19371981
3	'COVID19(462) Small.jpeg'	376	2313	0,16255945
4	'COVID19(463) Small.jpeg'	431	2416	0,17839404
5	'COVID19(464) Small.jpeg'	446	3384	0,13179669

Table 11. White Pixels Ratio of Tuberculosis Image

No.	Data	Circumference	Area	Ratio	
1	'Tuberculosis-1 Small.jpeg'	484	4326	0,11188165	
2	'Tuberculosis-10 Small.jpeg'	480	3676	0,19371981	
3	'Tuberculosis-100 Small.jpeg'	474	4255	0,16255945	
4	'Tuberculosis-101 Small.jpeg'	492	4462	0,17839404	
5	'Tuberculosis-102 Small.jpeg'	479	3340	0,13179669	

Table 12. White Pixels Ratio of Pneumonia Image

No.	Data	Circumference	Area	Ratio	
1	'person1000_2931.jpeg'	586	3320	0,17650602	
2	'person1000_1681.jpeg'	382	2040	0,19371981	
3	'person1000_2932.jpeg'	394	1799	0,16255945	
4	'person1000_2932.jpeg'	399	1761	0,17839404	
5	'person1000_2934.jpeg'	346	3039	0,13179669	

Table 13. White Pixels Ratio of Normal Lungs Image

No.	Data	Circumference	Area	Ratio
1	'IM-0115-0001.jpeg'	491	2194	0,22379216
2	'IM-0117-0001.jpeg'	498	1842	0,27035831
3	'IM-0119-0001.jpeg'	468	1732	0,27020785
4	'IM-0122-0001.jpeg'	397	2010	0,19751244
5	'IM-0125-0001.jpeg'	491	1787	0,27476217

3.5. Clustering Data by k-Means

After all image processing has been completed, the next step is the clustering process using the K-Means method. This process begins by calculating the average of all data including data on the ratio of

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(3)

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Covid-19, Tuberculosis, Pneumonia, and Healthy Lungs. The average value is obtained with the data from the previous ratio calculation process.

Tabla	1 /	Moon	Value	Date

No.	Data	Average (Mean)
1	Covid-19 Lungs	0.16540681
2	Tuberculosis Lungs	0.10936217
3	Pneumonia Lungs	0.2004141
4	Normal Lungs	0.24035373

As in the table 14, you can see the average of each disease data. This clustering process is carried out so that four cluster classes are obtained, namely Cluster 0, Cluster 1, Cluster 2, Cluster 3. Determining the name of the cluster is done by finding the value that is closest to the average in the data for each disease. Cluster 0 has the closest value to the average value in the Covid-19 data, as well as Cluster 1 for Tuberculosis data, Cluster 2 for Pneumonia data, Cluster 3 for Normal Lung data. The clustering process is carried out using the Jupyter Notebook software and the cluster results and centroid values are shown in the table below:

Table 15. Centroid for Each Cluster

No.	Cluster	Centroid
1	Cluster 0 (Covid-19 Lungs)	0.154021
2	Cluster 1 (Tuberculosis Lungs)	0.083526
3	Cluster 2 (Pneumonia Lungs)	0.189932
4	Cluster 3 (Normal Lungs)	0.239203

3.6. Testing Process

All the data analyzed both have their own name labels so that the testing process can be easily carried out. The testing process is carried out by seeing whether the value of the number of white pixels in the test image belongs to the predetermined clustering class. The results can be seen in the table 16. The testing process can be carried out in several steps as follows:

- Grouping data for each category in the cluster class and match the value of the calculation of the previous ratio with the predetermined centroid point.
 Count the amount of data for each category that is correctly included in the clustering class
- Count the amount of data for each category that is correctly included in the clustering class according to its name label.

Table 16. Result of The Cluster

			Actual Class				
	Classes	Covid-19	Tuberculosis	Pneumonia	Normal		
	Covid-19	73	12	9	13		
lass	Tuberculosis	56	521	42	32		
edicted (Pneumonia	20	11	702	19		
Pred	Normal	126	112	116	988		

3.7. Result of Model Validation Test

The table shows that the number of data labeled Covid-19 that is correctly included in the Covid-19 lung cluster class is as much as the total data, the amount of data labeled as Tuberculosis that is correctly included in the Tuberculosis lung cluster class is as much as the total data, the amount of data labeled Pneumonia that is correctly included in the Pneumonia lung cluster class as much as the total

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data, and the number of data labeled Normal that is correctly included in the Normal lung cluster class as much as the total data.

The validation test is carried out with equation (4) (Pratiwi & Juniati, 2022) and shows that the results of the accuracy of applying the K-Means Clustering method to Chan-Vese and Canny Edge-Based Image Segmentation are 80%.

$$\label{eq:accuracy} \begin{aligned} \text{Accuracy} &= \underbrace{\frac{\text{The Number Of Clustered Data That Corresponds To The Data Label}}{Total}}_{\text{2B52}} \times 100\% &= \underbrace{\frac{2284}{2852}}_{\text{2B52}} \times 100\% &= \\ &0.80084151 \times 100\% &= 80\% \text{ (4)} \end{aligned}$$

4. CONCLUSION

The results of this study indicate that the accuracy of applying the K-Means Clustering method to images resulting from Chan-Vese segmentation and Canny Edge Detection is 80%. This result is obtained by calculating the amount of data in the cluster class that corresponds to its own data label. Of course, this is influenced by many things. One of them is the amount of data. Besides applying the right method, with the right amount of data it is possible to get a higher or lower level of accuracy. It is hoped that for future research, the application of other methods and the use of appropriate amounts of data can help research related to the detection of more complex lung diseases.

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