CS419 Digital Image and Video Analysis Assignment 3

Zeynep Türkmen - 29541

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1 Explainations

I first created the feature set blow and extracted the information for all 700 transning images.

In order to test which features perform better and eliminate some of them based on that I created many subsets with 3 elements from this feature set. I tested the corresponding accuracies for these sets while also rotating through the distance metrics. The corresponding results for this first experiment is in Appendix 1.

The results showed me that eccentricity, and zernike moments don't do much for the classification task. So I removed them from the further experiments. I also analyzed the different versions of fourier and shape histograms from this data and decided that histogram with 10 bins and fourier with 10 coefficients performed the best.

In light of that I then modified the code to check every subset of 4 or more elements in the feature set below. I also did not want multiple moment descriptors to be picked as they are correlated within, so I discarded the subsets that had both the central moments and the hu moments.

I then started the code and let it run while I was at the tuesday lecture. After 5 hours of running I got the csv showing me the results for all possible 1048 combinations. I discarded some of the results and put the rest in Appendix 2.

In conclusion, according to my observations fourier descriptors with 10 coefficients and shape histograms with 10 bins performed the best. For the distance metrics mahalanobis was by far the superior one as it considers the correlation matrix while calculationg the distances. Manhattan came in as the close second, euclidean was the third and chisquared was by far the worst as it didn't give a single decent result.

Correction: It has a single decent result when the subset is convexity, rectangularity, hist 10, hu moments. It is a mystery. Other than that the best feature subsets are the following with 0.71 accuracy using the mahalanobis distance.

- area-convexity-circularity-rectangularity-hist 10-central moments
- area-perimeter-convexity-circularity-rectangularity-hist 10
- perimeter-convexity-circularity-rectangularity-hist 10-central moments
- area-perimeter-convexity-circularity-rectangularity-hist 10-hu moments
- area-perimeter-convexity-circularity-rectangularity-hist 10-central moments

As can be observed, area, convexity, circularity, rectangularity, 10 bin shape histograms, central and hu moments are the mainly common ones making them good descriptors for the image set.

2 Appendix

2.1 First Batch of Trials

| Subset | Distance Metric | Accuracy |
|-------------------------------------|-----------------|--------------------|
| area-convexity-hist 10 | mahalanobis | 0.6428571428571429 |
| area-hist 5-central moments | mahalanobis | 0.6357142857142857 |
| area-rectangularity-hist 10 | mahalanobis | 0.6271428571428571 |
| perimeter-convexity-hist 10 | mahalanobis | 0.6271428571428571 |
| area-hist 10-central moments | mahalanobis | 0.6257142857142857 |
| perimeter-rectangularity-hist 10 | mahalanobis | 0.6214285714285714 |
| area-convexity-central moments | mahalanobis | 0.6185714285714285 |
| perimeter-eccentricity-hist 10 | mahalanobis | 0.6142857142857143 |
| area-convexity-hist 5 | mahalanobis | 0.6142857142857143 |
| area-circularity-hist 10 | mahalanobis | 0.6114285714285714 |
| area-eccentricity-hist 10 | mahalanobis | 0.61 |
| area-rectangularity-hist 5 | mahalanobis | 0.61 |
| area-perimeter-hist 10 | mahalanobis | 0.61 |
| area-hist 10-hu moments | mahalanobis | 0.6085714285714285 |
| perimeter-rectangularity-hist_5 | mahalanobis | 0.6085714285714285 |
| perimeter-circularity-hist 5 | mahalanobis | 0.6057142857142858 |
| perimeter-circularity-hist 10 | mahalanobis | 0.6042857142857143 |
| area-eccentricity-hist_5 | mahalanobis | 0.6042857142857143 |
| perimeter-convexity-hist 5 | mahalanobis | 0.6028571428571429 |
| area-circularity-hist 5 | mahalanobis | 0.6014285714285714 |
| area-convexity-hu moments | mahalanobis | 0.6014285714285714 |
| perimeter-eccentricity-hist 5 | mahalanobis | 0.5942857142857143 |
| perimeter-convexity-central moments | mahalanobis | 0.5942857142857143 |
| area-circularity-central moments | mahalanobis | 0.5928571428571429 |
| area-rectangularity-central moments | mahalanobis | 0.5914285714285714 |
| area-hist_15-central_moments | mahalanobis | 0.59 |
| area-perimeter-hist_5 | mahalanobis | 0.59 |
| area-perimeter-central_moments | mahalanobis | 0.59 |
| area-perimeter-fourier_15 | manhattan | 0.5885714285714285 |
| area-fourier_25-hist_10 | manhattan | 0.5871428571428572 |
| area-fourier_15-hist_25 | manhattan | 0.5871428571428572 |
| area-rectangularity-fourier_15 | manhattan | 0.5871428571428572 |
| area-eccentricity-fourier_25 | manhattan | 0.5871428571428572 |
| area-circularity-fourier_25 | manhattan | 0.5871428571428572 |
| area-circularity-fourier_15 | manhattan | 0.5871428571428572 |
| area-fourier_15-hist_5 | manhattan | 0.5871428571428572 |
| area-fourier_15-hist_10 | manhattan | 0.5871428571428572 |
| area-fourier_15-hist_15 | manhattan | 0.5871428571428572 |
| area-fourier_15-hist_20 | manhattan | 0.5871428571428572 |
| area-fourier_25-zernike_moments | manhattan | 0.5871428571428572 |
| area-fourier_25-hist_5 | manhattan | 0.5871428571428572 |
| area-fourier_15-zernike_moments | manhattan | 0.5871428571428572 |
| area-convexity-fourier_15 | manhattan | 0.5871428571428572 |
| area-fourier_25-hu_moments | manhattan | 0.5871428571428572 |
| area-fourier_25-hist_25 | manhattan | 0.5871428571428572 |
| area-convexity-fourier_25 | manhattan | 0.5871428571428572 |
| area-fourier_25-hist_20 | manhattan | 0.5871428571428572 |
| area-fourier_25-hist_15 | manhattan | 0.5871428571428572 |
| area-eccentricity-fourier_15 | manhattan | 0.5871428571428572 |
| area-rectangularity-fourier_25 | manhattan | 0.5871428571428572 |
| area-fourier_15-hu_moments | manhattan | 0.5871428571428572 |
| | | |

| | 1 | L 0 F0F1 400FF1 400FF0 |
|---|-------------|------------------------|
| area-perimeter-fourier_10 | manhattan | 0.5871428571428572 |
| area-perimeter-fourier_20 | manhattan | 0.5871428571428572 |
| area-perimeter-fourier_25 | manhattan | 0.5871428571428572 |
| area-rectangularity-fourier_10 | manhattan | 0.5857142857142857 |
| area-fourier_10-zernike_moments | manhattan | 0.5857142857142857 |
| area-fourier_10-hu_moments | manhattan | 0.5857142857142857 |
| area-fourier_10-hist_25 | manhattan | 0.5857142857142857 |
| area-circularity-fourier_10 | manhattan | 0.5857142857142857 |
| perimeter-circularity-central_moments | mahalanobis | 0.5857142857142857 |
| area-convexity-fourier_10 | manhattan | 0.5857142857142857 |
| area-fourier_10-hist_20 | manhattan | 0.5857142857142857 |
| area-fourier_10-hist_15 | manhattan | 0.5857142857142857 |
| area-fourier_10-hist_10 | manhattan | 0.5857142857142857 |
| area-fourier_10-hist_5 | manhattan | 0.5857142857142857 |
| area-eccentricity-fourier_10 | manhattan | 0.5857142857142857 |
| perimeter-eccentricity-central_moments | mahalanobis | 0.5857142857142857 |
| area-fourier_20-hist_5 | manhattan | 0.5842857142857143 |
| area-fourier_20-zernike_moments | manhattan | 0.5842857142857143 |
| area-fourier_20-hu_moments | manhattan | 0.5842857142857143 |
| area-fourier_20-hist_25 | manhattan | 0.5842857142857143 |
| area-fourier_20-hist_20 | manhattan | 0.5842857142857143 |
| area-circularity-fourier_20 | manhattan | 0.5842857142857143 |
| area-convexity-fourier_20 | manhattan | 0.5842857142857143 |
| area-fourier 20-hist 15 | manhattan | 0.5842857142857143 |
| area-fourier 20-hist 10 | manhattan | 0.5842857142857143 |
| area-eccentricity-fourier 20 | manhattan | 0.5842857142857143 |
| area-rectangularity-fourier 20 | manhattan | 0.5842857142857143 |
| area-hist 5-hu moments | mahalanobis | 0.5742857142857143 |
| area-convexity-hist_15 | mahalanobis | 0.5728571428571428 |
| perimeter-rectangularity-central moments | mahalanobis | 0.5728571428571428 |
| perimeter-convexity-hist 15 | mahalanobis | 0.57 |
| area-perimeter-fourier 5 | manhattan | 0.57 |
| area-fourier 5-hist 20 | manhattan | 0.5685714285714286 |
| area-eccentricity-fourier 5 | manhattan | 0.5685714285714286 |
| area-rectangularity-fourier 5 | manhattan | 0.5685714285714286 |
| area-fourier 5-hist 5 | manhattan | 0.5685714285714286 |
| area-fourier 5-hist 10 | manhattan | 0.5685714285714286 |
| area-fourier 5-hist 15 | manhattan | 0.5685714285714286 |
| perimeter-rectangularity-hist 15 | mahalanobis | 0.5685714285714286 |
| area-fourier 5-hist 25 | manhattan | 0.5685714285714286 |
| area-fourier 5-zernike moments | manhattan | 0.5685714285714286 |
| area-convexity-fourier 5 | manhattan | 0.5685714285714286 |
| area-circularity-fourier 5 | manhattan | 0.5685714285714286 |
| area-fourier 5-hu moments | manhattan | 0.5685714285714286 |
| perimeter-circularity-hu moments | mahalanobis | 0.5671428571428572 |
| area-rectangularity-hist 15 | mahalanobis | 0.5671428571428572 |
| area-rectangularity-hu moments | mahalanobis | 0.5657142857142857 |
| area-convexity-eccentricity | mahalanobis | 0.5657142857142857 |
| perimeter-circularity-eccentricity | mahalanobis | 0.5614285714285714 |
| area-eccentricity-central moments | mahalanobis | 0.5614285714285714 |
| area-fourier 20-hist 20 | euclidean | 0.56 |
| area-fourier 20-hist 25 | euclidean | 0.56 |
| area-fourier 20-hist 15 | euclidean | 0.56 |
| area-fourier 20-hu moments | euclidean | 0.56 |
| | euclidean | 0.56 |
| Larea-fourier 20-hist 10 | | |
| area-fourier_20-hist_10 area-fourier 20-hist 5 | euclidean | 0.56 |

| f : 20 :1 | 1. 1 | 0.50 |
|---------------------------------|--------------------------|--------------------|
| area-fourier_20-zernike_moments | euclidean | 0.56 |
| area-fourier_25-hu_moments | euclidean | 0.56 |
| area-fourier_25-hist_25 | euclidean | 0.56 |
| area-rectangularity-fourier_25 | euclidean | 0.56 |
| area-rectangularity-fourier_20 | euclidean | 0.56 |
| area-eccentricity-fourier_20 | euclidean | 0.56 |
| area-eccentricity-fourier_25 | euclidean | 0.56 |
| area-circularity-hist_15 | mahalanobis | 0.56 |
| area-fourier_25-zernike_moments | euclidean | 0.56 |
| area-circularity-fourier_25 | euclidean | 0.56 |
| area-fourier_25-hist_5 | euclidean | 0.56 |
| area-convexity-fourier_20 | euclidean | 0.56 |
| area-convexity-fourier_25 | euclidean | 0.56 |
| area-circularity-fourier_20 | euclidean | 0.56 |
| area-fourier_25-hist_20 | euclidean | 0.56 |
| area-perimeter-fourier_25 | euclidean | 0.56 |
| area-fourier_25-hist_15 | euclidean | 0.56 |
| area-fourier_25-hist_10 | euclidean | 0.56 |
| area-perimeter-fourier_20 | euclidean | 0.56 |
| area-fourier 15-hist 20 | euclidean | 0.5585714285714286 |
| area-fourier 15-hist 5 | euclidean | 0.5585714285714286 |
| area-rectangularity-fourier_15 | euclidean | 0.5585714285714286 |
| area-fourier 15-hist 10 | euclidean | 0.5585714285714286 |
| area-circularity-eccentricity | mahalanobis | 0.5585714285714286 |
| area-eccentricity-fourier 15 | euclidean | 0.5585714285714286 |
| area-circularity-fourier 15 | euclidean | 0.5585714285714286 |
| area-fourier 15-hist 15 | euclidean | 0.5585714285714286 |
| area-fourier 15-hist 25 | euclidean | 0.5585714285714286 |
| area-perimeter-fourier_15 | euclidean | 0.5585714285714286 |
| area-fourier_15-hu_moments | euclidean | 0.5585714285714286 |
| area-convexity-fourier_15 | euclidean | 0.5585714285714286 |
| area-fourier 15-zernike moments | euclidean | 0.5585714285714286 |
| perimeter-eccentricity-hist 15 | mahalanobis | 0.5571428571428572 |
| area-perimeter-hist 15 | mahalanobis | 0.5571428571428572 |
| area-fourier 10-hist 25 | euclidean | 0.5557142857142857 |
| area-convexity-fourier_10 | euclidean | 0.5557142857142857 |
| area-fourier 10-hist 20 | euclidean | 0.5557142857142857 |
| area-perimeter-fourier 10 | euclidean | 0.5557142857142857 |
| area-fourier 10-hist 10 | euclidean | 0.5557142857142857 |
| area-fourier 10-hist 5 | euclidean | 0.5557142857142857 |
| area-fourier 10-zernike moments | euclidean | 0.5557142857142857 |
| | | 0.5557142857142857 |
| area-rectangularity-fourier_10 | euclidean mahalanobis | |
| area-eccentricity-hist_15 | | 0.5557142857142857 |
| area-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-fourier_10-hist_15 | euclidean | 0.5557142857142857 |
| area-circularity-fourier_10 | euclidean | 0.5557142857142857 |
| area-eccentricity-fourier_10 | euclidean | 0.5557142857142857 |
| area-circularity-hu_moments | mahalanobis | 0.5542857142857143 |
| area-hist_15-hu_moments | mahalanobis | 0.5542857142857143 |
| perimeter-circularity-hist_15 | mahalanobis | 0.5542857142857143 |
| area-fourier_5-zernike_moments | euclidean | 0.5485714285714286 |
| area-fourier_5-hist_5 | euclidean | 0.5485714285714286 |
| area-fourier_5-hist_10 | euclidean | 0.5485714285714286 |
| area-fourier_5-hist_15 | euclidean | 0.5485714285714286 |
| area-circularity-fourier_5 | euclidean | 0.5485714285714286 |
| area-fourier_5-hist_20 | euclidean | 0.5485714285714286 |
| | | |

| | 1. 1 | 0 5 40551 400551 4006 |
|--|--------------------------|-----------------------|
| area-eccentricity-fourier_5 | euclidean | 0.5485714285714286 |
| area-fourier_5-hist_25 | euclidean euclidean | 0.5485714285714286 |
| area-fourier_5-hu_moments | | 0.5485714285714286 |
| area-rectangularity-fourier_5 | euclidean | 0.5485714285714286 |
| area-convexity-fourier_5 | euclidean | 0.5485714285714286 |
| area-perimeter-fourier_5 | euclidean | 0.5485714285714286 |
| perimeter-circularity-fourier_10 | manhattan | 0.5471428571428572 |
| perimeter-eccentricity-fourier_10 | manhattan | 0.5442857142857143 |
| perimeter-rectangularity-fourier_10 | manhattan | 0.5442857142857143 |
| perimeter-convexity-fourier_10 | manhattan | 0.5442857142857143 |
| perimeter-circularity-fourier_15 | manhattan | 0.5385714285714286 |
| perimeter-circularity-fourier_25 | manhattan | 0.5385714285714286 |
| perimeter-rectangularity-fourier_25 | manhattan | 0.5385714285714286 |
| perimeter-convexity-fourier_25 | manhattan | 0.5385714285714286 |
| perimeter-eccentricity-fourier_15 | manhattan | 0.5385714285714286 |
| perimeter-convexity-fourier_15 | manhattan | 0.5385714285714286 |
| perimeter-rectangularity-fourier_15 | manhattan | 0.5385714285714286 |
| perimeter-eccentricity-fourier_25 | manhattan | 0.5385714285714286 |
| area-hist_20-central_moments | mahalanobis | 0.5371428571428571 |
| area-convexity-hist_20 | mahalanobis | 0.5371428571428571 |
| area-perimeter-hu moments | mahalanobis | 0.5371428571428571 |
| perimeter-circularity-fourier 20 | manhattan | 0.5357142857142857 |
| perimeter-convexity-fourier 20 | manhattan | 0.5357142857142857 |
| perimeter-eccentricity-fourier 20 | manhattan | 0.5357142857142857 |
| perimeter-rectangularity-fourier 20 | manhattan | 0.5357142857142857 |
| area-eccentricity-hu moments | mahalanobis | 0.5314285714285715 |
| area-perimeter-eccentricity | mahalanobis | 0.5228571428571429 |
| area-perimeter-central moments | manhattan | 0.52 |
| area-rectangularity-central_moments | manhattan | 0.52 |
| perimeter-eccentricity-central moments | manhattan | 0.52 |
| perimeter-convexity-central moments | manhattan | 0.52 |
| area-rectangularity-hist_20 | mahalanobis | 0.52 |
| area-hist 15-central moments | manhattan | 0.52 |
| area-fourier 25-central moments | manhattan | 0.52 |
| area-fourier 10-central moments | manhattan | 0.52 |
| area-circularity-central_moments | manhattan | 0.52 |
| area-eccentricity-central moments | manhattan | 0.52 |
| area-hist 25-central moments | manhattan | 0.52 |
| area-hist 20-central moments | manhattan | 0.52 |
| perimeter-rectangularity-central moments | manhattan | 0.52 |
| area-hist 10-central moments | manhattan | 0.52 |
| area-fourier 5-central moments | manhattan | 0.52 |
| perimeter-circularity-central moments | manhattan | 0.52 |
| area-convexity-central moments | manhattan | 0.52 |
| area-convexity-central_moments area-hist 5-central moments | manhattan | 0.52 |
| | mannattan | 0.52 |
| area-fourier_15-central_moments | mannattan | |
| area-fourier_20-central_moments | mannattan mahalanobis | 0.52 |
| perimeter-convexity-eccentricity | | 0.5171428571428571 |
| area-eccentricity-hist_20 | mahalanobis | 0.5157142857142857 |
| perimeter-circularity-fourier_5 | manhattan | 0.5128571428571429 |
| perimeter-convexity-hist_20 | mahalanobis | 0.5114285714285715 |
| area-rectangularity-eccentricity | | 0.5114285714285715 |
| . , , | mahalanobis | |
| perimeter-fourier_5-hist_10 | manhattan | 0.51 |
| perimeter-rectangularity-fourier_5 | manhattan manhattan | 0.51 0.51 |
| | manhattan | 0.51 |

| perimeter-fourier 5-hist 20 | manhattan | 0.51 |
|--|-------------|---------------------|
| perimeter-eccentricity-fourier 5 | manhattan | 0.51 |
| perimeter-fourier 5-hist 5 | manhattan | 0.51 |
| perimeter-convexity-fourier 5 | manhattan | 0.51 |
| perimeter-fourier 5-hist 25 | manhattan | 0.51 |
| area-convexity-rectangularity | mahalanobis | 0.5028571428571429 |
| area-perimeter-hist 20 | mahalanobis | 0.5014285714285714 |
| perimeter-circularity-hist 20 | mahalanobis | 0.49857142857142855 |
| area-circularity-hist 20 | mahalanobis | 0.49857142857142855 |
| perimeter-rectangularity-eccentricity | mahalanobis | 0.49857142857142855 |
| area-hist 25-central moments | mahalanobis | 0.49714285714285716 |
| perimeter-rectangularity-hu moments | mahalanobis | 0.4957142857142857 |
| perimeter-convexity-hu_moments | mahalanobis | 0.4957142857142857 |
| perimeter-eccentricity-hist _20 | mahalanobis | 0.4928571428571429 |
| perimeter-circularity-fourier 10 | euclidean | 0.4928571428571429 |
| perimeter-rectangularity-fourier_10 | euclidean | 0.4928571428571429 |
| perimeter-convexity-fourier 10 | euclidean | 0.4928571428571429 |
| perimeter-eccentricity-fourier 10 | euclidean | 0.4928571428571429 |
| perimeter-eccentricity-hu moments | mahalanobis | 0.49142857142857144 |
| area-hist 20-hu moments | mahalanobis | 0.49142857142857144 |
| perimeter-rectangularity-fourier 25 | euclidean | 0.48857142857142855 |
| perimeter-circularity-fourier 25 | euclidean | 0.48857142857142855 |
| perimeter-eccentricity-fourier 15 | euclidean | 0.48857142857142855 |
| perimeter convexity-fourier 15 | euclidean | 0.48857142857142855 |
| perimeter-circularity-fourier 15 | euclidean | 0.48857142857142855 |
| perimeter-circularity-fourier 20 | euclidean | 0.48857142857142855 |
| perimeter-eccentricity-fourier 25 | euclidean | 0.48857142857142855 |
| perimeter eccentricity fourier 20 | euclidean | 0.48857142857142855 |
| perimeter-rectangularity-fourier 15 | euclidean | 0.48857142857142855 |
| perimeter-rectangularity-rourier 20 | euclidean | 0.48857142857142855 |
| perimeter convexity fourier 25 | euclidean | 0.48857142857142855 |
| perimeter-eccentricity-fourier_20 | euclidean | 0.48857142857142855 |
| area-fourier 5-central moments | euclidean | 0.48428571428571426 |
| area-perimeter-central moments | euclidean | 0.48428571428571426 |
| area-convexity-central moments | euclidean | 0.48428571428571426 |
| area-hist _25-central _moments | euclidean | 0.48428571428571426 |
| area-eccentricity-central moments | euclidean | 0.48428571428571426 |
| area-circularity-central moments | euclidean | 0.48428571428571426 |
| area-fourier 20-central moments | euclidean | 0.48428571428571426 |
| perimeter-rectangularity-central moments | euclidean | 0.48428571428571426 |
| perimeter-circularity-central moments | euclidean | 0.48428571428571426 |
| perimeter-convexity-central moments | euclidean | 0.48428571428571426 |
| area-rectangularity-central moments | euclidean | 0.48428571428571426 |
| area-hist 20-central moments | euclidean | 0.48428571428571426 |
| area-hist 5-central moments | euclidean | 0.48428571428571426 |
| area-hist 10-central moments | euclidean | 0.48428571428571426 |
| area-fourier 25-central moments | euclidean | 0.48428571428571426 |
| area-fourier_10-central_moments | euclidean | 0.48428571428571426 |
| area-hist 15-central moments | euclidean | 0.48428571428571426 |
| perimeter-eccentricity-central_moments | euclidean | 0.48428571428571426 |
| area-fourier 15-central moments | euclidean | 0.48428571428571426 |
| perimeter-fourier 5-hist 15 | euclidean | 0.47714285714285715 |
| perimeter-fourier 5-hist 10 | euclidean | 0.47714285714285715 |
| perimeter-fourier 5-hist 20 | euclidean | 0.47714285714285715 |
| perimeter-fourier_5-inst_20 perimeter-circularity-fourier 5 | euclidean | 0.47714285714285715 |
| perimeter-circularity-fourier_5 perimeter-eccentricity-fourier 5 | euclidean | 0.47714285714285715 |
| permieter-eccentricity-tourier_9 | Cuchaean | 0.41114200114200110 |

| perimeter-fourier 5-hist 25 | euclidean | 0.47714285714285715 |
|---|----------------------------|---|
| perimeter-fourier 5-hist 5 | euclidean | 0.47714285714285715 |
| perimeter-rectangularity-fourier 5 | euclidean | 0.47714285714285715 |
| perimeter-rectangularity-rounier 5 | euclidean | 0.47714285714285715 |
| area-eccentricity-hist 25 | mahalanobis | 0.4742857142857143 |
| perimeter-convexity-circularity | mahalanobis | 0.47 |
| area-convexity-hist_25 | mahalanobis | 0.47 |
| area-circularity-rectangularity | mahalanobis | 0.4657142857142857 |
| area-convexity-circularity | mahalanobis | 0.4657142857142857 |
| perimeter-convexity-hist 25 | mahalanobis | 0.4657142857142857 |
| perimeter-rectangularity-hist 25 | mahalanobis | 0.4642857142857143 |
| area-rectangularity-hist 25 | mahalanobis | 0.4642857142857143 |
| perimeter-circularity-rectangularity | mahalanobis | 0.46 |
| perimeter-convexity-rectangularity | mahalanobis | 0.46 |
| area-perimeter-rectangularity | mahalanobis | 0.4585714285714286 |
| perimeter-rectangularity perimeter-eccentricity-hist_25 | mahalanobis | 0.45714285714285713 |
| area-perimeter-convexity | mahalanobis | 0.4571428571428574 |
| | | I . |
| area-perimeter-hist_25 | mahalanobis mahalanobis | 0.44142857142857145 |
| area-hist_25-hu_moments | mahalanobis mahalanobis | 0.43714285714285717 0.4342857142857143 |
| perimeter-circularity-hist_25 | | II. |
| area-circularity-hist_25 | mahalanobis | 0.4257142857142857 |
| perimeter-circularity-hist_15 | chisquared | 0.39 |
| area-perimeter-hist_15 | chisquared | 0.38571428571428573 |
| perimeter-circularity-hist_10 | chisquared | 0.3842857142857143 |
| area-perimeter-hist_10 | chisquared | 0.38285714285714284 |
| perimeter-circularity-hist_20 | chisquared | 0.37714285714285717 |
| area-perimeter-hist_5 | chisquared | 0.3742857142857143 |
| area-perimeter-hist_20 | chisquared | 0.37285714285714283 |
| area-perimeter-hist_25 | chisquared | 0.37285714285714283 |
| perimeter-circularity-hist_25 | chisquared | 0.36857142857142855 |
| perimeter-circularity-hist_5 | chisquared | 0.36142857142857143 |
| area-circularity-hist_15 | chisquared | 0.3485714285714286 |
| area-circularity-hist_20 | chisquared | 0.34714285714285714 |
| perimeter-circularity-eccentricity | chisquared | 0.34714285714285714 |
| area-circularity-hist_5 | chisquared | 0.3442857142857143 |
| area-circularity-hist_10 | chisquared | 0.34285714285714286 |
| perimeter-circularity-rectangularity | chisquared | 0.3357142857142857 |
| area-circularity-hist_25 | chisquared | 0.3342857142857143 |
| perimeter-convexity-circularity | chisquared | 0.3271428571428571 |
| area-perimeter-eccentricity | chisquared | 0.3271428571428571 |
| area-perimeter-rectangularity | chisquared | 0.32571428571428573 |
| area-perimeter-convexity | chisquared | 0.32285714285714284 |
| area-perimeter-hu_moments | chisquared | 0.32285714285714284 |
| area-perimeter-circularity | mahalanobis | 0.32285714285714284 |
| perimeter-circularity-hu_moments | chisquared | 0.32142857142857145 |
| area-perimeter-circularity | chisquared | 0.32 |
| area-perimeter-zernike_moments | chisquared | 0.31857142857142856 |
| perimeter-circularity-zernike_moments | chisquared | 0.3157142857142857 |
| area-circularity-eccentricity | chisquared | 0.3028571428571429 |
| area-convexity-circularity | chisquared | 0.30142857142857143 |
| area-circularity-rectangularity | chisquared | 0.30142857142857143 |
| area-circularity-hu_moments | chisquared | 0.30142857142857143 |
| area-circularity-zernike_moments | chisquared | 0.30142857142857143 |
| area-perimeter-circularity | manhattan | 0.2985714285714286 |
| area-hist_15-zernike_moments | chisquared | 0.29428571428571426 |
| area-hist_25-zernike_moments | chisquared | 0.29285714285714287 |
| | • | • |

| area-perimeter-hist 25 | manhattan | 0.2914285714285714 |
|---|-------------------------|--|
| perimeter-circularity-rectangularity | manhattan | 0.2914285714285714 |
| area-perimeter-rectangularity | manhattan | 0.2914285714285714 |
| area-perimeter-hist 15 | manhattan | 0.2914285714285714 |
| area-hist 20-zernike moments | chisquared | 0.2914285714285714 |
| area-perimeter-hu moments | manhattan | 0.2914285714285714 |
| area-perimeter-eccentricity | manhattan | 0.2914285714285714 |
| perimeter-eccentricity perimeter-circularity-eccentricity | manhattan | 0.2914285714285714 |
| area-perimeter-convexity | manhattan | 0.2914285714285714 |
| area-perimeter-tonvexity area-perimeter-hist 5 | manhattan | 0.2914285714285714 |
| area-perimeter-hist 20 | manhattan | 0.2914285714285714 |
| area-perimeter-inst_20 area-perimeter-zernike moments | manhattan | 0.2914285714285714 |
| perimeter-circularity-zernike moments | manhattan | 0.2914285714285714 |
| area-perimeter-hist 10 | manhattan | 0.2914285714285714 |
| perimeter-nst_10 perimeter-eccentricity-hist 15 | chisquared | 0.2914285714285714 |
| perimeter-eccentricity-hist_15 perimeter-circularity-hist_5 | manhattan | 0.2885714285714286 |
| perimeter-circularity-hist 10 | manhattan | 0.2885714285714286 |
| · = | | |
| perimeter-convexity-circularity perimeter-circularity-hist 15 | manhattan manhattan | 0.2885714285714286 |
| perimeter-circularity-nist_15 perimeter-circularity-hist 20 | mannattan | 0.2885714285714286 0.2885714285714286 |
| | | |
| <u> </u> | manhattan | 0.2885714285714286 |
| perimeter-eccentricity-hist_10 | chisquared | 0.28714285714285714 |
| perimeter-circularity-hu_moments | manhattan | 0.28714285714285714 |
| perimeter-eccentricity-hist_20 | chisquared | 0.2842857142857143 |
| area-hist_10-zernike_moments | chisquared | 0.28285714285714286 |
| perimeter-eccentricity-hist_5 | chisquared | 0.28285714285714286 |
| area-rectangularity-hist_15 | chisquared euclidean | 0.2814285714285714 |
| area-perimeter-hist_25 | | 0.28 |
| perimeter-convexity-circularity | euclidean euclidean | 0.28 |
| area-perimeter-zernike_moments | | 0.28 |
| perimeter-convexity-hist_15 | chisquared euclidean | 0.28 |
| area-perimeter-hu_moments | euclidean | 0.28 |
| perimeter-circularity-eccentricity perimeter-circularity-rectangularity | euclidean | 0.28 |
| - , , , , , , , , , , , , , , , , , , , | euclidean | 0.28 |
| area-perimeter-convexity | | |
| area-perimeter-hist_20 | euclidean | 0.28 |
| area-perimeter-eccentricity | euclidean | 0.28 |
| perimeter-circularity-zernike_moments | euclidean | 0.28 |
| area-perimeter-hist_5 | euclidean euclidean | 0.28 |
| perimeter-circularity-hu_moments | | 0.28 |
| perimeter-circularity-hist_25 | euclidean | 0.28 |
| area-perimeter-hist_10 | euclidean | 0.28 |
| perimeter-circularity-hist_5 | euclidean | 0.28 |
| perimeter-circularity-hist_20 | euclidean | 0.28 |
| area-eccentricity-hist_15 | chisquared | 0.28 |
| perimeter-circularity-hist_15 | euclidean | 0.28 |
| area-perimeter-rectangularity | euclidean | 0.28 |
| perimeter-circularity-hist_10 | euclidean | 0.28 |
| area-perimeter-circularity | euclidean | 0.28 |
| area-perimeter-hist_15 | euclidean | 0.28 |
| area-convexity-hist_15 | chisquared | 0.2785714285714286 |
| perimeter-convexity-hist_10 | chisquared | 0.2785714285714286 |
| area-eccentricity-hist_25 | chisquared | 0.2785714285714286 |
| area-eccentricity-hist_20 | chisquared | 0.2785714285714286 |
| perimeter-convexity-eccentricity | chisquared | 0.2785714285714286 |
| perimeter-rectangularity-eccentricity | chisquared | 0.2785714285714286 |

| perimeter-rectangularity-hist 10 | chisquared | 0.27714285714285714 |
|--|------------------------|--|
| perimeter-convexity-hist 20 | chisquared | 0.2757142857142857 |
| area-convexity-hist_25 | chisquared | 0.2757142857142857 |
| perimeter-rectangularity-hist 20 | chisquared | 0.2757142857142857 |
| area-hist 5-zernike moments | chisquared | 0.2742857142857143 |
| area-rectangularity-hist 20 | chisquared | 0.27285714285714285 |
| area-convexity-hist 20 | chisquared | 0.27285714285714285 |
| perimeter-rectangularity-hist 15 | chisquared | 0.27285714285714285 |
| area-hist 15-hu moments | chisquared | 0.27285714285714285 |
| area-eccentricity-hist 10 | chisquared | 0.27285714285714285 |
| area-rectangularity-hist 25 | chisquared | 0.2714285714285714 |
| perimeter-convexity-hist 5 | chisquared | 0.2714285714285714 |
| perimeter eccentricity-hist 25 | chisquared | 0.2714285714285714 |
| area-hist 25-hu moments | chisquared | 0.26857142857142857 |
| perimeter-rectangularity-hist 5 | chisquared | 0.2671428571428571 |
| perimeter-rectangularity-mst_5 perimeter-convexity-hist 25 | chisquared | 0.26571428571428574 |
| area-hist_20-hu_moments | chisquared | 0.26571428571428574 |
| area-mst_20-nu_moments area-rectangularity-hist 10 | chisquared | 0.2642857142857143 |
| area-rectangularity-nist_10 area-convexity-hist_10 | chisquared | 0.2642857142857143 |
| perimeter-rectangularity-hist 25 | chisquared | 0.2642857142857143 |
| | _ | |
| area-eccentricity-hist_5 | chisquared | 0.2571428571428571 |
| area-hist_10-hu_moments | chisquared | 0.2557142857142857 |
| perimeter-convexity-rectangularity | chisquared | 0.25 |
| area-rectangularity-hist_5 | chisquared | 0.24714285714285714 |
| area-convexity-hist_5 | chisquared | 0.24714285714285714 |
| area-hist_5-hu_moments | chisquared | 0.23857142857142857 |
| perimeter-eccentricity-hu_moments | chisquared | 0.22857142857142856 |
| area-hist_15-zernike_moments | mahalanobis | 0.22714285714285715 |
| perimeter-rectangularity-hu_moments | chisquared | 0.22714285714285715 |
| perimeter-convexity-hu_moments | chisquared | 0.22428571428571428 |
| area-rectangularity-eccentricity | chisquared | 0.22428571428571428 |
| area-convexity-eccentricity | chisquared | 0.22142857142857142 |
| area-hist_10-zernike_moments | mahalanobis | 0.22 |
| area-convexity-zernike_moments | chisquared | 0.22 |
| area-rectangularity-zernike_moments | chisquared | 0.21857142857142858 |
| area-eccentricity-zernike_moments | chisquared | 0.21857142857142858 |
| area-convexity-circularity | manhattan | 0.21428571428571427 |
| area-circularity-eccentricity | manhattan | 0.21428571428571427 |
| area-circularity-hist_5 | manhattan | 0.21428571428571427 |
| area-circularity-hu_moments | manhattan | 0.21428571428571427 |
| area-circularity-hist_10 | manhattan | 0.21428571428571427 |
| area-circularity-rectangularity | manhattan | 0.21428571428571427 |
| area-circularity-hist_15 | manhattan | 0.21428571428571427 |
| area-circularity-hist_20 | manhattan | 0.21428571428571427 |
| area-circularity-hist_25 | manhattan | 0.21428571428571427 |
| area-circularity-zernike_moments | manhattan | 0.21428571428571427 |
| area-convexity-rectangularity | chisquared | 0.21285714285714286 |
| area-eccentricity-hu_moments | chisquared | 0.21285714285714286 |
| area-hist_25-zernike_moments | mahalanobis | 0.21 |
| area-hist_20-zernike_moments | mahalanobis | 0.2057142857142857 |
| area-convexity-hu_moments | chisquared | 0.2042857142857143 |
| perimeter-eccentricity-zernike_moments | chisquared | 0.2042857142857143 |
| area-circularity-eccentricity | euclidean | 0.20285714285714285 |
| | + | |
| area-circularity-hist 5 | euclidean | 0.20285714285714285 |
| area-circularity-hist _5 area-circularity-hist 10 | euclidean euclidean | 0.20285714285714285 0.20285714285714285 |
| | | |

| area-circularity-hist 25 | euclidean | 0.20285714285714285 |
|---|------------------------|--|
| area-circularity-zernike moments | euclidean | 0.20285714285714285 |
| area-circularity-hist 20 | euclidean | 0.20285714285714285 |
| area-circularity-rectangularity | euclidean | 0.20285714285714285 |
| area-circularity-hist 15 | euclidean | 0.20285714285714285 |
| area-convexity-circularity | euclidean | 0.20285714285714285 |
| area-rectangularity-hu moments | chisquared | 0.1957142857142857 |
| perimeter-rectangularity-zernike moments | chisquared | 0.19142857142857142 |
| area-hist 5-zernike moments | mahalanobis | 0.19142857142857142 |
| area-hist 25-zernike_moments | manhattan | 0.18428571428571427 |
| area-hist 10-hu moments | euclidean | 0.18428571428571427 |
| area-convexity-eccentricity | euclidean | 0.18428571428571427 |
| area-hist 10-zernike moments | euclidean | 0.18428571428571427 |
| area-hist 10-zernike moments | manhattan | 0.18428571428571427 |
| area-rectangularity-hist 15 | manhattan | 0.18428571428571427 |
| area-hist 25-zernike moments | euclidean | 0.18428571428571427 |
| area-hist 20-hu moments | euclidean | 0.18428571428571427 |
| area-hist 15-hu moments | | |
| | euclidean manhattan | 0.18428571428571427 |
| area-hist_15-hu_moments | | 0.18428571428571427 0.18428571428571427 |
| area-convexity-rectangularity area-hist 25-hu moments | manhattan manhattan | |
| | | 0.18428571428571427 |
| area-hist_15-zernike_moments | euclidean | 0.18428571428571427 |
| area-hist_15-zernike_moments | manhattan | 0.18428571428571427 |
| area-hist_25-hu_moments | euclidean | 0.18428571428571427 |
| area-hist_20-zernike_moments | manhattan | 0.18428571428571427 |
| area-convexity-rectangularity | euclidean | 0.18428571428571427 |
| area-hist_20-zernike_moments | euclidean | 0.18428571428571427 |
| area-hist_10-hu_moments | manhattan | 0.18428571428571427 |
| area-rectangularity-hist_15 | euclidean | 0.18428571428571427 |
| area-hist_20-hu_moments | manhattan | 0.18428571428571427 |
| area-eccentricity-hist_15 | euclidean | 0.18428571428571427 |
| area-rectangularity-hist_10 | euclidean | 0.18428571428571427 |
| area-rectangularity-zernike_moments | euclidean | 0.18428571428571427 |
| area-convexity-hist_25 | manhattan | 0.18428571428571427 |
| area-convexity-hist_5 | euclidean | 0.18428571428571427 |
| area-convexity-hist_5 | manhattan | 0.18428571428571427 |
| area-convexity-eccentricity | manhattan | 0.18428571428571427 |
| area-convexity-hist_10 | euclidean | 0.18428571428571427 |
| area-rectangularity-zernike_moments | manhattan | 0.18428571428571427 |
| area-eccentricity-hist_5 | manhattan | 0.18428571428571427 |
| area-eccentricity-hist_5 | euclidean | 0.18428571428571427 |
| area-convexity-hist_10 | manhattan | 0.18428571428571427 |
| area-rectangularity-hist_5 | manhattan | 0.18428571428571427 |
| area-convexity-hist_15 | euclidean | 0.18428571428571427 |
| area-convexity-hist_15 | manhattan | 0.18428571428571427 |
| area-convexity-zernike_moments | manhattan | 0.18428571428571427 |
| area-convexity-hist_20 | euclidean | 0.18428571428571427 |
| area-convexity-hist_20 | manhattan | 0.18428571428571427 |
| area-convexity-zernike_moments | euclidean | 0.18428571428571427 |
| area-convexity-hu_moments | manhattan | 0.18428571428571427 |
| area-convexity-hist_25 | euclidean | 0.18428571428571427 |
| area-rectangularity-hist_5 | euclidean | 0.18428571428571427 |
| area-eccentricity-hist_10 | manhattan | 0.18428571428571427 |
| area-eccentricity-hist_10 | euclidean | 0.18428571428571427 |
| area-eccentricity-hist_15 | manhattan | 0.18428571428571427 |
| area-eccentricity-hist_20 | manhattan | 0.18428571428571427 |
| | | • |

| area-hist 5-zernike moments | manhattan | 0.18428571428571427 |
|--|------------|---------------------|
| area-hist 5-zernike moments | euclidean | 0.18428571428571427 |
| area-rectangularity-eccentricity | euclidean | 0.18428571428571427 |
| area-hist 5-hu moments | manhattan | 0.18428571428571427 |
| area-hist 5-hu moments | euclidean | 0.18428571428571427 |
| area-rectangularity-hist 20 | euclidean | 0.18428571428571427 |
| area-eccentricity-hist_25 | euclidean | 0.18428571428571427 |
| area-eccentricity-hist 25 | manhattan | 0.18428571428571427 |
| area-rectangularity-hu moments | manhattan | 0.18428571428571427 |
| area-rectangularity-nu_moments area-rectangularity-hist 20 | manhattan | 0.18428571428571427 |
| area-rectangularity-hist 10 | manhattan | 0.18428571428571427 |
| area-rectangularity-mst_10 area-convexity-hu moments | euclidean | 0.18428571428571427 |
| · <u>-</u> | euclidean | 0.18428571428571427 |
| area-eccentricity-hu_moments | euclidean | |
| area-eccentricity-zernike_moments | | 0.18428571428571427 |
| area-rectangularity-hu_moments | euclidean | 0.18428571428571427 |
| area-rectangularity-eccentricity | manhattan | 0.18428571428571427 |
| area-eccentricity-zernike_moments | manhattan | 0.18428571428571427 |
| area-rectangularity-hist_25 | manhattan | 0.18428571428571427 |
| area-eccentricity-hist_20 | euclidean | 0.18428571428571427 |
| area-rectangularity-hist_25 | euclidean | 0.18428571428571427 |
| area-eccentricity-hu_moments | manhattan | 0.18428571428571427 |
| perimeter-convexity-zernike_moments | chisquared | 0.18285714285714286 |
| perimeter-eccentricity-zernike_moments | manhattan | 0.16285714285714287 |
| perimeter-convexity-rectangularity | manhattan | 0.16142857142857142 |
| perimeter-convexity-eccentricity | manhattan | 0.16142857142857142 |
| perimeter-rectangularity-zernike_moments | manhattan | 0.16 |
| perimeter-rectangularity-eccentricity | manhattan | 0.16 |
| perimeter-convexity-zernike_moments | manhattan | 0.15857142857142856 |
| perimeter-eccentricity-hist_15 | manhattan | 0.15571428571428572 |
| perimeter-eccentricity-hist_5 | manhattan | 0.15571428571428572 |
| perimeter-eccentricity-hist_20 | manhattan | 0.15571428571428572 |
| perimeter-eccentricity-hist_25 | manhattan | 0.15571428571428572 |
| perimeter-eccentricity-hist_10 | manhattan | 0.15571428571428572 |
| perimeter-eccentricity-hu_moments | manhattan | 0.15571428571428572 |
| perimeter-rectangularity-hist_5 | manhattan | 0.15428571428571428 |
| perimeter-rectangularity-hist_10 | manhattan | 0.15428571428571428 |
| perimeter-rectangularity-hist_25 | manhattan | 0.15428571428571428 |
| perimeter-convexity-hu_moments | manhattan | 0.15428571428571428 |
| perimeter-convexity-hist_25 | manhattan | 0.15428571428571428 |
| perimeter-convexity-hist_20 | manhattan | 0.15428571428571428 |
| perimeter-convexity-hist_15 | manhattan | 0.15428571428571428 |
| perimeter-convexity-hist_10 | manhattan | 0.15428571428571428 |
| perimeter-convexity-hist_5 | manhattan | 0.15428571428571428 |
| perimeter-rectangularity-hist_15 | manhattan | 0.15428571428571428 |
| perimeter-rectangularity-hist_20 | manhattan | 0.15428571428571428 |
| perimeter-rectangularity-hu moments | manhattan | 0.15285714285714286 |
| perimeter-convexity-eccentricity | euclidean | 0.15 |
| perimeter-eccentricity-zernike moments | euclidean | 0.15 |
| perimeter-rectangularity-hist 10 | euclidean | 0.14857142857142858 |
| perimeter-rectangularity-hist 5 | euclidean | 0.14857142857142858 |
| perimeter-rectangularity-hist 15 | euclidean | 0.14857142857142858 |
| perimeter-rectangularity-zernike moments | euclidean | 0.14857142857142858 |
| perimeter-rectangularity-hu_moments | euclidean | 0.14857142857142858 |
| perimeter-rectangularity-eccentricity | euclidean | 0.14857142857142858 |
| perimeter-rectangularity-hist 25 | euclidean | 0.14857142857142858 |
| perimeter-rectangularity-hist 20 | euclidean | 0.14857142857142858 |
| | | |

| perimeter-convexity-rectangularity | euclidean | 0.14857142857142858 |
|--|---|--|
| perimeter-convexity-rectangularity perimeter-convexity-hist 25 | euclidean | 0.14714285714285713 |
| perimeter convexity inst_29 perimeter-eccentricity-hist 10 | euclidean | 0.14714285714285713 |
| perimeter eccentricity inst_10 perimeter-convexity-hu moments | euclidean | 0.14714285714285713 |
| perimeter convexity ininoments perimeter-eccentricity-hist 15 | euclidean | 0.14714285714285713 |
| perimeter-convexity-zernike moments | euclidean | 0.14714285714285713 |
| perimeter-eccentricity-hist 5 | euclidean | 0.14714285714285713 |
| perimeter-eccentricity-nist_5 perimeter-convexity-hist 20 | euclidean | 0.14714285714285713 |
| perimeter-convexity-inst_20 perimeter-eccentricity-hu moments | euclidean | 0.14714285714285713 |
| perimeter-eccentricity-nu_moments perimeter-eccentricity-hist 20 | euclidean | 0.14714285714285713 |
| perimeter-eccentricity-nist_20 perimeter-convexity-hist_5 | euclidean | 0.14714285714285713 |
| perimeter-convexity-hist 15 | euclidean | 0.14714285714285713 |
| perimeter-convexity-inst_13 perimeter-eccentricity-hist 25 | euclidean | 0.14714285714285713 |
| | euclidean | 0.14714285714285713 |
| , <u> </u> | mahalanobis | |
| perimeter-eccentricity-zernike_moments | | 0.1357142857142857 |
| perimeter-rectangularity-zernike_moments | mahalanobis | 0.13142857142857142 |
| area-eccentricity-zernike_moments | mahalanobis | 0.13142857142857142 |
| perimeter-convexity-zernike_moments | mahalanobis | 0.13 |
| area-rectangularity-zernike_moments | mahalanobis | 0.12428571428571429 |
| area-convexity-zernike_moments | mahalanobis | 0.12428571428571429 |
| perimeter-eccentricity-fourier_10 | mahalanobis | 0.11714285714285715 |
| area-fourier_5-central_moments | mahalanobis | 0.11571428571428571 |
| area-perimeter-zernike_moments | mahalanobis | 0.11428571428571428 |
| perimeter-circularity-zernike_moments | mahalanobis | 0.11428571428571428 |
| area-circularity-zernike_moments | mahalanobis | 0.11428571428571428 |
| area-eccentricity-fourier_10 | mahalanobis | 0.10857142857142857 |
| area-convexity-fourier_10 | mahalanobis | 0.10571428571428572 |
| area-eccentricity-fourier 5 | mahalanobis | 0.10142857142857142 |
| | | |
| perimeter-eccentricity-fourier_5 | mahalanobis | 0.1 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments | mahalanobis mahalanobis | 0.1 0.09857142857142857 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 | mahalanobis mahalanobis mahalanobis | 0.1 0.09857142857142857 0.09857142857142857 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 | mahalanobis mahalanobis mahalanobis mahalanobis | 0.1 0.09857142857142857 0.09857142857142857 0.09285714285714286 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 | mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis | 0.1 0.09857142857142857 0.09857142857142857 0.09285714285714286 0.09285714285714286 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 | mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis | 0.1 0.09857142857142857 0.09857142857142857 0.09285714285714286 0.09285714285714286 0.09142857142857143 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 | mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis | 0.1 0.09857142857142857 0.09857142857142857 0.09285714285714286 0.09285714285714286 0.09142857142857143 0.09 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 | mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis mahalanobis | 0.1 0.09857142857142857 0.09857142857142857 0.09285714285714286 0.09285714285714286 0.09142857142857143 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_10 | mahalanobis | 0.1 0.09857142857142857 0.09857142857142857 0.09285714285714286 0.09285714285714286 0.09142857142857143 0.09 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 | mahalanobis | 0.1 0.09857142857142857 0.09857142857142857 0.09285714285714286 0.09285714285714286 0.09142857142857143 0.09 0.08857142857142856 |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_10 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-eccentricity-fourier_15 perimeter-convexity-fourier_5 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_15 area-fourier_10-lou_moments | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_15 area-fourier_ourier_15 area-fourier_10-hu_moments area-perimeter-fourier_5 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ 0.08428571428571428 \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_20 perimeter-circularity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_5 area-rectangularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_10-fourier_5 area-fourier_10-fourier_5 area-fourier_5 perimeter-circularity-fourier_5 area-fourier_10-fourier_5 area-fourier_10-fourier_1 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.08285714285714285 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_20 perimeter-circularity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-convexity-fourier_5 perimeter-convexity-fourier_5 perimeter-fourier_5 perimeter-circularity-fourier_5 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08428571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_10-dourier_5 area-fourier_10-d | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.0828571428571428 \\ 0.08285714285714285 \\ 0.0$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_20-central_moments area-fourier_20-central_moments area-fourier_5-hu_moments area-rectangularity-fourier_10 area-fourier_5-hu_moments area-rectangularity-fourier_5 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.0914285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.0828571428571428 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.0885714285714285 \\ 0.0885714285714285 \\ 0.0885714285714285 \\ 0.0885714285714285 \\ 0.0885714285714285 \\ 0.0885714285714285 \\ 0.08857$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_20-central_moments area-fourier_20-central_moments area-fourier_5-hu_moments area-rectangularity-fourier_10 area-fourier_5-hu_moments area-rectangularity-fourier_15 area-circularity-fourier_10 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.0914285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.085714285714285715 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.0828571428571428 \\ 0.08285714285714285 \\ 0.082857142857 \\ 0.082857142857 \\ 0.082857142857 \\ 0.082857142857 $ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_20-central_moments area-fourier_20-central_moments area-fourier_5-hu_moments area-rectangularity-fourier_10 area-fourier_5-hu_moments area-rectangularity-fourier_15 area-circularity-fourier_10 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.0914285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.085714285714285712 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.07857142857142857 \\ 0.07857142857142857 \\ 0.07714285714285714$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_20-central_moments area-fourier_5-hu_moments area-circularity-fourier_10 area-fourier_5-hu_moments area-circularity-fourier_10 area-fourier_5-hu_moments area-circularity-fourier_10 area-fourier_5-hu_moments area-circularity-fourier_15 area-circularity-fourier_5 area-circularity-fourier_5 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.0914285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.085714285714285715 \\ 0.08428571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.07857142857142857 \\ 0.07857142857142857 \\ 0.07714285714285714 \\ 0.07714285714285714 \\ 0.07714285714285714 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_20-central_moments area-fourier_5-hu_moments area-rectangularity-fourier_10 area-fourier_5-hu_moments area-rectangularity-fourier_10 perimeter-circularity-fourier_10 area-fourier_5-hu_moments area-circularity-fourier_10 perimeter-controllarity-fourier_10 perimeter-controllarity-fourier_10 area-fourier_5-hu_moments area-rectangularity-fourier_15 perimeter-eccentricity-fourier_15 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.0914285714285714286 \\ 0.09142857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.0828571428571428 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.088 \\ 0.07857142857142857 \\ 0.077142857142857 \\ 0.077142857142857 \\ 0.077142857142857142 \\ 0.07428571428571429 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_20-central_moments area-fourier_5-hu_moments area-circularity-fourier_10 area-fourier_5-hu_moments area-circularity-fourier_15 perimeter-eccentricity-fourier_5 area-fourier_5-hu_moments area-circularity-fourier_5 area-fourier_5-his_5 perimeter-rectangularity-fourier_5 area-fourier_10-hist_5 perimeter-rectangularity-fourier_5 area-fourier_5-hist_5 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.0914285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.0828571428571428 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.07857142857142857 \\ 0.077857142857142857 \\ 0.07714285714285714 \\ 0.0771428571428571429 \\ 0.07428571428571429 \\ 0.07285714285714286 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_20-central_moments area-fourier_5-hu_moments area-circularity-fourier_10 area-fourier_5-hu_moments area-circularity-fourier_15 perimeter-eccentricity-fourier_5 area-fourier_5-hu_moments area-fourier_5-hu_fourier_5 perimeter-eccentricity-fourier_15 perimeter-eccentricity-fourier_20 area-fourier_10-hist_5 perimeter-convexity-fourier_20 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.0914285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.0828571428571428 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.07857142857142857 \\ 0.07857142857142857 \\ 0.07714285714285714 \\ 0.07714285714285714 \\ 0.07428571428571429 \\ 0.07428571428571428 \\ 0.07285714285714286 \\ 0.071428571428571428 \\ \end{array}$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_20-central_moments area-fourier_5-hu_moments area-circularity-fourier_10 area-fourier_5-hu_moments area-circularity-fourier_10 area-fourier_5-hu_moments area-rectangularity-fourier_5 area-fourier_5-hu_fourier_5 perimeter-eccentricity-fourier_20 area-fourier_10-hist_5 perimeter-convexity-fourier_20 area-fourier_5-hist_5 perimeter-convexity-fourier_20 area-fourier_10-hist_15 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.0914285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.07857142857142857 \\ 0.07857142857142857 \\ 0.07714285714285714 \\ 0.07714285714285714 \\ 0.07428571428571429 \\ 0.0728571428571428 \\ 0.071428571428571428 \\ 0.071428571428571429 \\ 0.0728571428571428 \\ 0.07142857142857142 \\ 0.077$ |
| perimeter-eccentricity-fourier_5 area-fourier_10-central_moments area-perimeter-fourier_10 perimeter-convexity-fourier_10 area-convexity-fourier_5 perimeter-rectangularity-fourier_10 perimeter-circularity-fourier_10 perimeter-circularity-fourier_20 perimeter-convexity-fourier_15 perimeter-convexity-fourier_5 area-fourier_10-hu_moments area-perimeter-fourier_5 area-rectangularity-fourier_10 area-circularity-fourier_5 perimeter-circularity-fourier_5 area-fourier_20-central_moments area-fourier_5-hu_moments area-circularity-fourier_10 area-fourier_5-hu_moments area-circularity-fourier_15 perimeter-eccentricity-fourier_5 area-fourier_5-hu_moments area-fourier_5-hu_fourier_5 perimeter-eccentricity-fourier_15 perimeter-eccentricity-fourier_20 area-fourier_10-hist_5 perimeter-convexity-fourier_5 area-fourier_5-hist_5 perimeter-convexity-fourier_20 | mahalanobis | $\begin{array}{c} 0.1 \\ 0.09857142857142857 \\ 0.09857142857142857 \\ 0.09285714285714286 \\ 0.09285714285714286 \\ 0.0914285714285714286 \\ 0.09142857142857143 \\ 0.09 \\ 0.08857142857142856 \\ 0.08857142857142856 \\ 0.08714285714285715 \\ 0.08714285714285715 \\ 0.08571428571428572 \\ 0.08428571428571428 \\ 0.08428571428571428 \\ 0.0828571428571428 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.08285714285714285 \\ 0.07857142857142857 \\ 0.07857142857142857 \\ 0.07714285714285714 \\ 0.07714285714285714 \\ 0.07428571428571429 \\ 0.07428571428571428 \\ 0.07285714285714286 \\ 0.071428571428571428 \\ \end{array}$ |

| area-perimeter-fourier 20 | mahalanobis | 0.06857142857142857 |
|---------------------------------------|-------------|----------------------|
| area-fourier 15-central moments | mahalanobis | 0.06857142857142857 |
| perimeter-circularity-fourier 15 | mahalanobis | 0.06857142857142857 |
| area-fourier 10-hist 25 | mahalanobis | 0.06714285714285714 |
| area-fourier 10-hist 20 | mahalanobis | 0.06714285714285714 |
| area-fourier 10-hist 10 | mahalanobis | 0.06571428571428571 |
| | mahalanobis | 0.06571428571428571 |
| , , , , , , , , , , , , , , , , , , , | mahalanobis | 0.06428571428571428 |
| | mahalanobis | 0.06428571428571428 |
| perimeter-eccentricity-fourier_25 | | |
| perimeter-rectangularity-fourier_20 | mahalanobis | 0.06428571428571428 |
| area-convexity-fourier_20 | mahalanobis | 0.06285714285714286 |
| area-fourier_5-hist_10 | mahalanobis | 0.06285714285714286 |
| area-fourier_15-hist_25 | mahalanobis | 0.06285714285714286 |
| area-eccentricity-fourier_20 | mahalanobis | 0.06142857142857143 |
| area-rectangularity-fourier_25 | mahalanobis | 0.06142857142857143 |
| area-fourier_25-central_moments | mahalanobis | 0.06142857142857143 |
| area-fourier_25-hu_moments | mahalanobis | 0.06142857142857143 |
| area-circularity-fourier_20 | mahalanobis | 0.06 |
| area-fourier_20-hu_moments | mahalanobis | 0.06 |
| area-eccentricity-fourier_15 | mahalanobis | 0.06 |
| area-perimeter-fourier_25 | mahalanobis | 0.05857142857142857 |
| area-fourier_5-hist_20 | mahalanobis | 0.05857142857142857 |
| area-fourier 15-zernike moments | mahalanobis | 0.05857142857142857 |
| perimeter-rectangularity-fourier_15 | mahalanobis | 0.05857142857142857 |
| area-fourier 5-zernike moments | mahalanobis | 0.05714285714285714 |
| area-circularity-fourier 25 | mahalanobis | 0.05714285714285714 |
| area-fourier 15-hist 20 | mahalanobis | 0.05714285714285714 |
| area-fourier 5-hist 25 | mahalanobis | 0.05714285714285714 |
| area-fourier 20-hist 5 | mahalanobis | 0.055714285714285716 |
| area-fourier 20-hist 25 | mahalanobis | 0.055714285714285716 |
| area-fourier 25-hist 25 | mahalanobis | 0.055714285714285716 |
| area-fourier 15-hist 10 | mahalanobis | 0.054285714285714284 |
| area-fourier 10-zernike moments | mahalanobis | 0.054285714285714284 |
| perimeter-fourier 5-hist 10 | mahalanobis | 0.05285714285714286 |
| area-convexity-fourier 15 | mahalanobis | 0.05285714285714286 |
| area-fourier_5-hist_15 | mahalanobis | 0.05285714285714286 |
| area-fourier 20-hist 20 | mahalanobis | 0.05142857142857143 |
| area-fourier 15-hu moments | mahalanobis | 0.05142857142857143 |
| area-fourier 20-zernike moments | mahalanobis | |
| | | 0.05142857142857143 |
| area-fourier_15-hist_15 | mahalanobis | 0.05142857142857143 |
| area-rectangularity-fourier_15 | mahalanobis | 0.05142857142857143 |
| area-fourier_25-hist_5 | mahalanobis | 0.05 |
| perimeter-convexity-fourier_25 | mahalanobis | 0.05 |
| area-convexity-fourier_25 | mahalanobis | 0.05 |
| perimeter-fourier_5-hist_20 | mahalanobis | 0.05 |
| area-fourier_20-hist_10 | mahalanobis | 0.047142857142857146 |
| area-fourier_15-hist_5 | mahalanobis | 0.047142857142857146 |
| area-fourier_25-hist_10 | mahalanobis | 0.047142857142857146 |
| perimeter-fourier_5-hist_15 | mahalanobis | 0.047142857142857146 |
| area-fourier_25-hist_15 | mahalanobis | 0.045714285714285714 |
| area-eccentricity-fourier_25 | mahalanobis | 0.04428571428571428 |
| perimeter-rectangularity-fourier_25 | mahalanobis | 0.04428571428571428 |
| area-fourier_20-hist_15 | mahalanobis | 0.04428571428571428 |
| area-rectangularity-fourier_20 | mahalanobis | 0.04428571428571428 |
| area-fourier_25-zernike_moments | mahalanobis | 0.04285714285714286 |
| area-fourier_25-hist_20 | mahalanobis | 0.041428571428571426 |
| | -1 | 1 |

| area-rectangularity-central moments area-rectangularity-central moments chisquared perimeter-rectangularity-central moments chisquared perimeter-convexity-central moments chisquared perimeter-convexity-central moments chisquared n.022857142857142857 area-hist_5-central moments chisquared n.022857142857142857 area-hist_10-central moments chisquared n.022857142857142857 area-fourier_5-central moments chisquared n.022857142857142857 area-fourier_15-central moments chisquared n.022857142857142857 area-fourier_15-central moments chisquared n.022857142857142857 area-fourier_15-central moments chisquared n.022857142857142857 area-fourier_15-central moments chisquared n.022857142857142857 area-fourier_10-central moments chisquared n.022857142857142857 area-fourier_15-central moments chisquared n.022857142857142857 area-fourier_5-central moments chisquared n.022857142857142857 area-fourier_5-seruike moments chisquared n.022857142857142857 area-fourier_5-hist_15 chisquared n.022857142857142857 area-fourier_5-hist_15 chisquared n.01571428571428571 area-fourier_5-hist_15 chisquared n.01571428571428571 perimeter-fourier_5-hist_10 chisquared n.015714285714285715 perimeter-fourier_5-hist_10 chisquared n.0157142857142857142857 area-fourier_5-hist_10 chisquared n.0142857142857142857 perimeter-convexity-fourier_5 chisquared n.0142857142857142857 perimeter-fourier_5-hist_10 chisquared n.0142857142857142857 perimeter-fourier_5-hist_10 chisquared n.0142857142857142857 perimeter-convexity-fourier_5 chisquared n.014285714285714285 perimeter-convexity-fourier_5 chisquared n.014285714285714285 perimeter-fourier_5-hist_5 chisquared n.014285714285714285 perimeter-fourier_5-hist_5 chisquared n.014285714285714285 area-fourier_5-hist_5 chisquared n.014285714285714285 area-fourier_5-hist_5 | perimeter-eccentricity-central moments | chisquared | 0.022857142857142857 |
|---|--|------------|-----------------------------------|
| perimeter-rectangularity-central moments chisquared 0.022857142857142857 area-hist | <u> </u> | _ | |
| area-hist_5-central_moments | • • = | | |
| perimeter-convexity-central moments | | • | |
| area-hist_20-central_moments chisquared 0.022857142857142857142857 area-fourier_5-central_moments chisquared 0.022857142857142857 area-fourier_15-central_moments chisquared 0.022857142857142857 area-fourier_20-central_moments chisquared 0.022857142857142857 area-fourier_20-central_moments chisquared 0.022857142857142857 area-fourier_10-central_moments chisquared 0.022857142857142857 area-hist_25-central_moments chisquared 0.022857142857142857 area-hist_26-central_moments chisquared 0.022857142857142857 area-fourier_10-central_moments chisquared 0.022857142857142857 area-fourier_10-central_moments chisquared 0.022857142857142857 area-fourier_20-central_moments chisquared 0.022857142857142857 area-fourier_5-central_moments chisquared 0.022857142857142857 area-fourier_5-hist_15 chisquared 0.022857142857142857 area-fourier_5-hist_15 chisquared 0.012857142857142857 area-fourier_5-hist_10 chisquared 0.015714285714285715 area-fourier_5-hist_10 chisq | | _ | |
| area-fourier_5-central_moments | | | |
| area-hist_10-central_moments chisquared 0.022857142857142857 area-fourier_15-central_moments chisquared 0.022857142857142857 area-fourier_20-central_moments chisquared 0.022857142857142857 perimeter-circularity-central_moments chisquared 0.022857142857142857 area-circularity-central_moments chisquared 0.022857142857142857 area-hist_25-central_moments chisquared 0.022857142857142857 area-circularity-central_moments chisquared 0.022857142857142857 area-fourier_10-central_moments chisquared 0.022857142857142857 area-fourier_10-central_moments chisquared 0.022857142857142857 area-fourier_210-central_moments chisquared 0.022857142857142857 area-fourier_25-central_moments chisquared 0.022857142857142857 area-fourier_5-central_moments chisquared 0.022857142857142857 area-fourier_5-inist_15 chisquared 0.022857142857142857 area-fourier_5-hist_15 chisquared 0.01571428571428571 area-fourier_5-hist_10 chisquared 0.015714285714285715 perimeter-fourier_5-hist_10 | | • | |
| area-fourier 15-central moments chisquared 0.022857142857142857 area-fourier 20-central moments chisquared 0.022857142857142857 perimeter-circularity-central moments chisquared 0.022857142857142857 area-eccentricity-central moments chisquared 0.022857142857142857 area-hist 25-central moments chisquared 0.022857142857142857 area-circularity-central moments chisquared 0.022857142857142857 area-fourier 10-central moments chisquared 0.022857142857142857 area-fourier 25-central moments chisquared 0.022857142857142857 area-fourier 25-central moments chisquared 0.022857142857142857 area-fourier 25-central moments chisquared 0.022857142857142857 area-fourier 5-sernike moments chisquared 0.022857142857142857 area-fourier 5-hist 15 chisquared 0.0157142857142857 area-fourier 5-hist 15 chisquared 0.015714285714285715 area-fourier 5-hist 10 chisquared | | _ | 1 |
| area-fourier_20-central_moments chisquared 0.022857142857142857 perimeter-circularity-central_moments chisquared 0.022857142857142857 area-eccentricity-central_moments chisquared 0.022857142857142857 area-hist_25-central_moments chisquared 0.022857142857142857 area-circularity-central_moments chisquared 0.022857142857142857 area-fourier_10-central_moments chisquared 0.022857142857142857 area-fourier_25-central_moments chisquared 0.022857142857142857 area-fourier_25-central_moments chisquared 0.022857142857142857 area-fourier_5-central_moments chisquared 0.012857142857142857 area-fourier_5-bist_15 chisquared 0.01571428571428571 area-fourier_5-hist_15 chisquared 0.01571428571428571428571 area-fourier_5-hist_10 <td></td> <td></td> <td></td> | | | |
| perimeter-circularity-central_moments | | | |
| area-eccentricity-central_moments chisquared 0.022857142857142857142857 area-hist_25-central_moments chisquared 0.022857142857142857 area-circularity-central_moments chisquared 0.022857142857142857 area-fourier_10-central_moments chisquared 0.022857142857142857 area-hist_15-central_moments chisquared 0.022857142857142857 area-perimeter-central_moments chisquared 0.022857142857142857 area-fourier_25-central_moments chisquared 0.022857142857142857 area-fourier_5-central_moments chisquared 0.022857142857142857 area-fourier_5-central_moments chisquared 0.022857142857142857 area-fourier_5-central_moments chisquared 0.022857142857142857 area-fourier_5-inst_1 chisquared 0.015714285714285715 area-fourier_5-hist_15 chisquared 0.015714285714285715 area-fourier_5-hist_10 chisquared 0.015714285714285715 area-fourier_5-hist_10 chisquared 0.015714285714285715 area-correctricity-fourier_5 chisquared 0.015714285714285714285714285 area-correctricity-fourier_5 <td< td=""><td></td><td>-</td><td></td></td<> | | - | |
| area-hist_25-central_moments chisquared 0.022857142857142857142857 area-circularity-central_moments chisquared 0.022857142857142857 area-fourier_10-central_moments chisquared 0.022857142857142857 area-hist_15-central_moments chisquared 0.022857142857142857 area-perimeter-central_moments chisquared 0.022857142857142857 area-fourier_25-central_moments chisquared 0.022857142857142857 area-fourier_5-zernike_moments chisquared 0.022857142857142857 area-fourier_5-prist_15 chisquared 0.01571428571428571 area-fourier_5-hist_15 chisquared 0.015714285714285715 area-fourier_5-hist_20 chisquared 0.015714285714285715 perimeter-fourier_5-hist_10 chisquared 0.015714285714285715 perimeter-fourier_5-hist_20 chisquared 0.015714285714285715 area-fourier_5-hist_20 chisquared 0.015714285714285715 area-eccentricity-fourier_5 chisquared 0.014285714285714285715 area-circularity-fourier_5 chisquared 0.014285714285714285 perimeter-convexity-fourier_5 chisquared | | | |
| area-circularity-central_moments chisquared 0.022857142857142857 area-fourier_10-central_moments chisquared 0.022857142857142857 area-hist_15-central_moments chisquared 0.022857142857142857 area-perimeter-central_moments chisquared 0.022857142857142857 area-fourier_25-central_moments chisquared 0.022857142857142857 area-convexity-central_moments chisquared 0.022857142857142857 area-fourier_5-zernike_moments chisquared 0.01571428571428571 area-fourier_5-hist_15 chisquared 0.015714285714285715 area-fourier_5-hist_20 chisquared 0.015714285714285715 perimeter-fourier_5-hist_10 chisquared 0.015714285714285715 area-fourier_5-hist_10 chisquared 0.015714285714285715 perimeter-fourier_5-hist_20 chisquared 0.015714285714285714285715 area-eccentricity-fourier_5 chisquared 0.01428571428571428571285714285714285714285 area-eccentricity-fourier_5 chisquared 0.014285714285714285 perimeter-convexity-fourier_5 chisquared 0.014285714285714285 perimeter-cecentricity-fourier_5 <td>· <u> </u></td> <td></td> <td></td> | · <u> </u> | | |
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| perimeter-fourier_5-hist_5 chisquared 0.014285714285714285714285 perimeter-rectangularity-fourier_5 chisquared 0.014285714285714285 area-convexity-fourier_5 chisquared 0.014285714285714285 area-fourier_5-hist_5 chisquared 0.014285714285714285 area-fourier_5-hu_moments chisquared 0.014285714285714285 area-fourier_5-hist_25 chisquared 0.014285714285714285 area-perimeter-fourier_5 chisquared 0.014285714285714285 area-fourier_20-zernike_moments chisquared 0.012857142857142857 area-fourier_10-zernike_moments chisquared 0.01142857142857142857 | | | |
| perimeter-rectangularity-fourier_5 chisquared 0.014285714285714285 area-convexity-fourier_5 chisquared 0.014285714285714285 area-fourier_5-hist_5 chisquared 0.014285714285714285 area-fourier_5-hu_moments chisquared 0.014285714285714285 area-fourier_5-hist_25 chisquared 0.014285714285714285 area-perimeter-fourier_5 chisquared 0.014285714285714285 area-fourier_20-zernike_moments chisquared 0.012857142857142857 area-fourier_10-zernike_moments chisquared 0.01142857142857142857 | | | |
| area-convexity-fourier_5 chisquared 0.014285714285714285714285 area-fourier_5-hist_5 chisquared 0.014285714285714285 area-fourier_5-hu_moments chisquared 0.014285714285714285 area-fourier_5-hist_25 chisquared 0.014285714285714285 area-perimeter-fourier_5 chisquared 0.014285714285714285 area-fourier_20-zernike_moments chisquared 0.012857142857142857 area-fourier_10-zernike_moments chisquared 0.01142857142857142857 | | _ | |
| area-fourier _ 5-hist _ 5 chisquared 0.014285714285714285 area-fourier _ 5-hu _ moments chisquared 0.014285714285714285 area-fourier _ 5-hist _ 25 chisquared 0.014285714285714285 area-perimeter-fourier _ 5 chisquared 0.014285714285714285 area-fourier _ 20-zernike _ moments chisquared 0.012857142857142857 area-fourier _ 10-zernike _ moments chisquared 0.01142857142857142857 | | | |
| area-fourier _5-hu _moments chisquared 0.014285714285714285 area-fourier _5-hist _25 chisquared 0.014285714285714285 area-perimeter-fourier _5 chisquared 0.014285714285714285714285 area-fourier _20-zernike _moments chisquared 0.012857142857142857 area-fourier _10-zernike _moments chisquared 0.01142857142857142857 | • = | _ | |
| area-fourier_5-hist_25 chisquared 0.014285714285714285714285 area-perimeter-fourier_5 chisquared 0.014285714285714285 area-fourier_20-zernike_moments chisquared 0.012857142857142857 area-fourier_10-zernike_moments chisquared 0.01142857142857142857142857 | | _ | |
| area-perimeter-fourier_5 chisquared 0.014285714285714285714285 area-fourier_20-zernike_moments chisquared 0.012857142857142857 area-fourier_10-zernike_moments chisquared 0.011428571428571428571429 | | • | |
| area-fourier_20-zernike_moments chisquared 0.012857142857142857 area-fourier_10-zernike_moments chisquared 0.011428571428571429 | | | |
| area-fourier_10-zernike_moments chisquared 0.011428571428571429 | - = | 1 - | |
| | | - | |
| | | | |
| | | _ | 0.011428571428571429 |
| | | _ | |
| | | | 0.007142857142857143 |
| , _ | _ | - | 0.007142857142857143 |
| | _ | - | 0.007142857142857143 |
| | | _ | 0.007142857142857143 |
| • • - | | | 0.007142857142857143 |
| area-fourier_20-hist_20 chisquared 0.007142857142857143 | | | |
| | | | 0.007142857142857143 |
| v = 1 | | _ | 0.007142857142857143 |
| area-fourier_20-hist_15 chisquared 0.007142857142857143 | | _ | |
| area-circularity-fourier_20 chisquared 0.007142857142857143 | | | |
| | | _ | 0.007142857142857143 |
| area-fourier_15-hu_moments chisquared 0.005714285714285714 | | | |
| area-rectangularity-fourier_25 chisquared 0.005714285714285714 | area-rectangularity-fourier_25 | chisquared | $0.00571\overline{4285714285714}$ |

| area-perimeter-fourier 25 | chisquared | 0.005714285714285714 |
|-------------------------------------|------------|----------------------|
| area-fourier 25-hist 5 | chisquared | 0.005714285714285714 |
| area-perimeter-fourier 15 | chisquared | 0.005714285714285714 |
| area-fourier 25-hist 25 | chisquared | 0.005714285714285714 |
| area-rectangularity-fourier 15 | chisquared | 0.005714285714285714 |
| area-fourier 15-hist 25 | chisquared | 0.005714285714285714 |
| | • | |
| area-eccentricity-fourier_25 | chisquared | 0.005714285714285714 |
| area-convexity-fourier_15 | chisquared | 0.005714285714285714 |
| area-fourier_25-hist_20 | chisquared | 0.005714285714285714 |
| area-fourier_25-hu_moments | chisquared | 0.005714285714285714 |
| area-convexity-fourier_25 | chisquared | 0.005714285714285714 |
| area-circularity-fourier_25 | chisquared | 0.005714285714285714 |
| area-fourier_25-hist_15 | chisquared | 0.005714285714285714 |
| area-fourier_25-hist_10 | chisquared | 0.005714285714285714 |
| area-fourier_15-hist_5 | chisquared | 0.005714285714285714 |
| area-fourier_15-hist_10 | chisquared | 0.005714285714285714 |
| area-fourier_15-hist_15 | chisquared | 0.005714285714285714 |
| area-circularity-fourier_15 | chisquared | 0.005714285714285714 |
| area-fourier_15-hist_20 | chisquared | 0.005714285714285714 |
| area-eccentricity-fourier_15 | chisquared | 0.005714285714285714 |
| area-convexity-fourier_10 | chisquared | 0.004285714285714286 |
| perimeter-rectangularity-fourier_25 | chisquared | 0.004285714285714286 |
| perimeter-convexity-fourier_10 | chisquared | 0.004285714285714286 |
| area-fourier_10-hu_moments | chisquared | 0.004285714285714286 |
| perimeter-rectangularity-fourier_20 | chisquared | 0.004285714285714286 |
| perimeter-rectangularity-fourier_15 | chisquared | 0.004285714285714286 |
| perimeter-rectangularity-fourier 10 | chisquared | 0.004285714285714286 |
| area-perimeter-fourier_10 | chisquared | 0.004285714285714286 |
| area-fourier 10-hist 5 | chisquared | 0.004285714285714286 |
| area-fourier 10-hist 15 | chisquared | 0.004285714285714286 |
| area-fourier 10-hist 20 | chisquared | 0.004285714285714286 |
| area-fourier 10-hist 25 | chisquared | 0.004285714285714286 |
| perimeter-circularity-fourier 25 | chisquared | 0.004285714285714286 |
| perimeter-circularity-fourier_20 | chisquared | 0.004285714285714286 |
| perimeter-circularity-fourier 15 | chisquared | 0.004285714285714286 |
| perimeter-convexity-fourier 15 | chisquared | 0.004285714285714286 |
| perimeter-circularity-fourier 10 | chisquared | 0.004285714285714286 |
| perimeter-eccentricity-fourier 10 | chisquared | 0.004285714285714286 |
| area-circularity-fourier_10 | chisquared | 0.004285714285714286 |
| perimeter-eccentricity-fourier 15 | chisquared | 0.004285714285714286 |
| perimeter-eccentricity-fourier 20 | chisquared | 0.004285714285714286 |
| area-rectangularity-fourier 10 | chisquared | 0.004285714285714286 |
| perimeter-eccentricity-fourier 25 | chisquared | 0.004285714285714286 |
| area-eccentricity-fourier 10 | chisquared | 0.004285714285714286 |
| perimeter-convexity-fourier 25 | chisquared | 0.004285714285714286 |
| perimeter-convexity-fourier 20 | chisquared | 0.004285714285714286 |
| area-fourier 10-hist 10 | chisquared | 0.004285714285714286 |
| arca lourier _10-11150 _10 | cmsquared | 0.004200114200114200 |

2.2 Final Results

| Subset | Distance Metric | Accuracy |
|--|-----------------|----------|
| area-convexity-circularity-rectangularity-hist_10-central_moments | mahalanobis | 0.71 |
| area-perimeter-convexity-circularity-rectangularity-hist_10 | mahalanobis | 0.71 |
| perimeter-convexity-circularity-rectangularity-hist_10-central_moments | mahalanobis | 0.71 |
| area-perimeter-convexity-circularity-rectangularity-hist_10-hu_moments | mahalanobis | 0.71 |

| area-perimeter-convexity-circularity-rectangularity-hist 10-central moments | mahalanobis | 0.7085714285714285 |
|---|-------------|--------------------|
| area-convexity-circularity-rectangularity-hist 10-hu moments | mahalanobis | 0.7014285714285714 |
| area-convexity-circularity-rectangularity-hist 10 | mahalanobis | 0.7 |
| convexity-circularity-rectangularity-hist 10-hu moments | mahalanobis | 0.6971428571428572 |
| area-perimeter-convexity-rectangularity-hist 10-hu moments | mahalanobis | 0.6971428571428572 |
| perimeter-convexity-circularity-rectangularity-hist 10-hu moments | mahalanobis | 0.6928571428571428 |
| convexity-circularity-rectangularity-hist 10-central moments | mahalanobis | 0.6928571428571428 |
| area-convexity-circularity-hist 10-central moments | mahalanobis | 0.6928571428571428 |
| area-perimeter-convexity-rectangularity-hist_10-central_moments | mahalanobis | 0.6914285714285714 |
| area-perimeter-convexity-circularity-hist_10-central_moments | mahalanobis | 0.6914285714285714 |
| perimeter-convexity-circularity-hist_10-central_moments | mahalanobis | 0.6871428571428572 |
| area-perimeter-convexity-rectangularity-hist_10 | mahalanobis | 0.6871428571428572 |
| perimeter-convexity-circularity-rectangularity-hist_10 | mahalanobis | 0.6857142857142857 |
| area-perimeter-convexity-circularity-rectangularity-central_moments | mahalanobis | 0.6857142857142857 |
| perimeter-convexity-rectangularity-hist_10-central_moments | mahalanobis | 0.6857142857142857 |
| area-convexity-rectangularity-hist_10-central_moments | mahalanobis | 0.6857142857142857 |
| area-perimeter-convexity-circularity-hist_10-hu_moments | mahalanobis | 0.6828571428571428 |
| perimeter-circularity-rectangularity-hist_10-central_moments | mahalanobis | 0.6828571428571428 |
| area-convexity-hist_10-central_moments | mahalanobis | 0.6814285714285714 |
| area-perimeter-circularity-rectangularity-hist_10-central_moments | mahalanobis | 0.6814285714285714 |
| area-perimeter-circularity-rectangularity-hist_10-hu_moments | mahalanobis | 0.6814285714285714 |
| area-perimeter-convexity-hist_10-central_moments | mahalanobis | 0.68 |
| perimeter-convexity-circularity-rectangularity-central_moments | mahalanobis | 0.68 |
| perimeter-convexity-rectangularity-hist_10-hu_moments | mahalanobis | 0.6785714285714286 |
| convexity-circularity-rectangularity-hist_10 | mahalanobis | 0.6785714285714286 |
| area-convexity-rectangularity-hist_10-hu_moments | mahalanobis | 0.6785714285714286 |
| area-convexity-circularity-hist_10-hu_moments | mahalanobis | 0.6771428571428572 |
| area-circularity-rectangularity-hist_10-central_moments | mahalanobis | 0.6742857142857143 |
| area-perimeter-convexity-circularity-hist_10 | mahalanobis | 0.6728571428571428 |
| area-perimeter-convexity-hist_10-hu_moments | mahalanobis | 0.6728571428571428 |
| circularity-rectangularity-hist_10-central_moments | mahalanobis | 0.6728571428571428 |
| convexity-circularity-hist_10-central_moments | mahalanobis | 0.6714285714285714 |
| perimeter-convexity-circularity-hist_10-hu_moments | mahalanobis | 0.6714285714285714 |
| perimeter-rectangularity-hist_10-central_moments | mahalanobis | 0.6714285714285714 |
| perimeter-circularity-rectangularity-hist_10-hu_moments | mahalanobis | 0.6714285714285714 |
| area-convexity-circularity-hist_10 | mahalanobis | 0.67 |
| perimeter-convexity-hist_10-central_moments | mahalanobis | 0.67 |
| area-convexity-circularity-rectangularity-central_moments | mahalanobis | 0.67 |
| area-convexity-rectangularity-hist_10 | mahalanobis | 0.67 |
| convexity-circularity-hist_10-hu_moments | mahalanobis | 0.67 |
| area-perimeter-convexity-circularity-rectangularity-hu_moments | mahalanobis | 0.67 |
| perimeter-convexity-circularity-rectangularity-hu_moments | mahalanobis | 0.6685714285714286 |
| convexity-rectangularity-hist_10-hu_moments | chisquared | 0.6685714285714286 |
| area-perimeter-rectangularity-hist_10-central_moments | mahalanobis | 0.6685714285714286 |
| convexity-rectangularity-hist_10-central_moments | mahalanobis | 0.6685714285714286 |
| area-circularity-rectangularity-hist_10-hu_moments | mahalanobis | 0.6671428571428571 |
| perimeter-convexity-circularity-hist_10 | mahalanobis | 0.6657142857142857 |
| area-circularity-rectangularity-hist_10 | mahalanobis | 0.6657142857142857 |
| area-perimeter-convexity-rectangularity-central_moments | mahalanobis | 0.6657142857142857 |
| perimeter-convexity-rectangularity-hist_10 | mahalanobis | 0.6657142857142857 |
| convexity-rectangularity-hist_10-hu_moments | mahalanobis | 0.6657142857142857 |
| area-perimeter-rectangularity-hist_10-hu_moments | mahalanobis | 0.6642857142857143 |
| area-perimeter-circularity-rectangularity-hist_10 | mahalanobis | 0.6642857142857143 |
| area-perimeter-circularity-hist_10-central_moments | mahalanobis | 0.6628571428571428 |
| area-rectangularity-hist_10-central_moments | mahalanobis | 0.6628571428571428 |
| area-convexity-hist 10-hu moments | mahalanobis | 0.6614285714285715 |

| area-convexity-circularity-tectangularity-bit moments mahalanobis 0.666 perimeter-circularity-thist_10-central_moments mahalanobis 0.6585714285714286 perimeter-circularity-rectangularity-central moments mahalanobis 0.6585714285714286 area-convexity-rectangularity-central moments mahalanobis 0.6587142857142867 area-perimeter-convexity-hist_10 mahalanobis 0.6587142857142867 area-perimeter-convexity-hist_10-him moments mahalanobis 0.6587142857142857 perimeter-convexity-testangularity-him moments mahalanobis 0.6587142857142857 perimeter-convexity-testangularity-him moments mahalanobis 0.6587142857 | circularity-rectangularity-hist 10-hu moments | mahalanobis | 0.66 |
|--|---|-------------|--------------------|
| perimeter-circularity-hist 10-central moments mahalanobis neiss7r14285 area-convexity-rectangularity-hist 10 mahalanobis neiss7r1428571428571 area-perimeter-convexity-hist 10 mahalanobis neiss7r1428571428571 area-perimeter-convexity-hist 10 mahalanobis neiss7r1428571428571 area-perimeter-convexity-hist 10-m moments mahalanobis neiss7r1428571428571 area-perimeter-convexity-hist 10-m moments mahalanobis neiss7r142857142857142 area-circularity-hist 10-m moments mahalanobis neiss7r142857142857142 area-circularity-hist 10-m moments mahalanobis neiss7r142857142857142 area-circularity-hist 10-m moments mahalanobis neiss7r1428571428 perimeter-convexity-rectangularity-central moments mahalanobis neiss7r1428571428 perimeter-convexity-circularity-central moments mahalanobis neiss7r1428571428 perimeter-convexity-circularity-central moments mahalanobis neiss7r1428571428 perimeter-convexity-circularity-central moments mahalanobis neiss7r14285714286 area-perimeter-convexity-circularity-central moments mahalanobis neiss7r14285714286 area-perimeter-circularity-hist 10-hu moments mahalanobis neiss7r14285714286 area-rectangularity-hist 10-hu moments mahalanobis neiss7r14285714286 area-rectangularity-bist 10-hu moments mahalanobis neiss7r14285714286 area-rectangularity-central moments mahalanobis neiss7r14285714286 area-rectangularity-rectangularity-numents mahalanobis neiss7r14285714286 area-perimeter-circularity-in-moments mahalanobis neiss7r142857142857 area-perimeter-circularity-rectangularity-central moments mahalanobis neiss7r142857142857 area-perimeter-circularity-moments mahalanobis neiss7r142857142857 area-perimeter-circularity-moments mahalanobis neiss7r142857142857 area-perimeter-circularity-moments mahalanobis neiss7r14285714285 area-perimeter-circularity-moments mahalanobis neiss7r14285714285 area-perimeter-circularity-moments mahalanobis neiss7r142857142857 area-perimeter-circularity-moments mahalanobis neiss7r142857142857 area-perimeter-circularity-moments mahalanobis neiss7r142857142857 area-perimeter-convexity-cir | • • = = | | 0.66 |
| perimeter-circularity-rectangularity-bist 10 arca-perimeter-corevity-rectangularity-bist 10 arca-perimeter-corevity-pertangularity-bist 10 arca-perimeter-corevity-bist 10 arca-perimeter-convexity-bist 10 arca-perimeter-convexity-bist 10-bit moments arca-perimeter-convexity-bist 10-bit moments arca-perimeter-convexity-bist 10-bit moments arca-circularity-bist 10-bit moments arca-circularity-bist 10-bit moments arca-perimeter-convexity-circularity-entral moments arca-perimeter-convexity-rectangularity-curred moments arca-perimeter-convexity-rectangularity-central moments arca-perimeter-convexity-rectangularity-central moments arca-perimeter-convexity-rectangularity-central moments arca-perimeter-convexity-circularity-central moments arca-perimeter-convexity-circularity-central moments arca-perimeter-convexity-circularity-central moments arca-perimeter-convexity-circularity-central moments arca-perimeter-convexity-circularity-central moments arca-perimeter-convexity-circularity-central moments arca-perimeter-convexity-circularity-bits 10-bu moments arca-perimeter-convexity-circularity-bits 10-bu moments arca-perimeter-convexity-central moments arca-perimeter-convexity-central moments arca-perimeter-convexity-central moments arca-perimeter-circularity-bits 10-bu moments arca-perimeter-circular | | mahalanobis | 0.6585714285714286 |
| arca-perimeter-convexity-rict and partity-entral moments mahalanobis do 5571428571428571 area-perimeter-convexity-hist_10 mahalanobis do 6557142857142857 area-perimeter-convexity-hist_10-hu_moments mahalanobis do 6557142857142857 area-perimeter-convexity-hist_10-hu_moments mahalanobis do 65557142857142857 area-perimeter-convexity-hist_10-hu_moments mahalanobis do 655571428571428574 area-perimeter-convexity-rectangularity-dundents mahalanobis mahalanobis do 6542857142857142 perimeter-convexity-rectangularity-central_moments mahalanobis do 6442857142857142 perimeter-convexity-rectangularity-central_moments mahalanobis mahalanobis do 6442857142857142 perimeter-convexity-rectangularity-central_moments mahalanobis mahalanobis do 6442857142857142 perimeter-convexity-rectangularity-central_moments mahalanobis mahalanobis do 6442857142857142 area-perimeter-convexity-rectangularity-central_moments mahalanobis mahalanobis mahalanobis mahalanobis do 633857142857142857 area-certangularity-hist_10-hu_moments mahalanobis mah | | mahalanobis | 0.6585714285714286 |
| area-perimeter-rectangularity-bist 10 area-perimeter-convexity-rictangularity-hu moments mahalanobis 0.65571428571428571 area-perimeter-convexity-rectangularity-hu moments mahalanobis 0.6557142857142857 perimeter-convexity-list_10-hu_moments mahalanobis mahalanobis 0.6542857142857142 area-perimeter-convexity-rectangularity-entral_moments mahalanobis 0.6542857142857142 area-perimeter-convexity-rectangularity-entral_moments mahalanobis 0.6442857142857142 area-perimeter-convexity-rectangularity-entral_moments mahalanobis 0.6442857142857142 perimeter-convexity-rectangularity-entral_moments mahalanobis 0.6442857142857142 perimeter-convexity-rectangularity-entral_moments mahalanobis 0.6442857142857142 perimeter-convexity-circularity-central_moments mahalanobis 0.64 area-perimeter-convexity-circularity-central_moments mahalanobis 0.64 area-perimeter-circularity-hist_10-hu_moments mahalanobis 0.63857142857142867 area-convexity-rectangularity-hum oments mahalanobis 0.63857142857142867 area-convexity-central_moments mahalanobis 0.6342857142857142867 area-convexity-central_moments mahalanobis 0.6342857142857142867 area-perimeter-circularity-hist_10-hu_moments mahalanobis 0.6342857142857142867 area-perimeter-circularity-central_moments mahalanobis 0.632857142857142857 convexity-circularity-central_moments mahalanobis 0.622857142857142857 area-perimeter-convexity-central_moments mahalanobis 0.622857142857142857 area-perimeter-circularity-rectangularity-dum-moments mahalanobis 0.612857142857142857 area-perimeter-circularity-rectangularity-lum-moments mahalanobis 0.612857142857142857 area-perimeter-circularity-rectangularity-lum-moments mahalanobis 0.612857142857142857 area-perimeter-circularity-rectangularity-lum-moments mahalanobis 0.61285714285714285714 area-perimeter-convexity-circularity-central_moments mahalanobis 0.6128571428571428574 area-perimeter-convexity-circularity-num-moments mahalanobis 0.6128571428571428574 area-perimeter-convexity-circularity-num-moments mahalanobis 0.6128571428571428574 area-perimeter-convex | | mahalanobis | 0.6571428571428571 |
| arca-perimeter-convexity-inst 10 mahalanobis 0.6557142857142857 perimeter-convexity-inst 10-lu moments mahalanobis 0.6557142857142857142 arca-circularity-bist 10-central moments mahalanobis 0.6542857142857142857142857 perimeter-convexity-trectangularity-central moments mahalanobis 0.6542857142857142857 perimeter-convexity-rectangularity-central moments mahalanobis 0.64428571428571428 perimeter-convexity-rectangularity-central moments mahalanobis 0.64428571428571428 perimeter-convexity-circularity-central moments mahalanobis 0.64428571428571428 perimeter-convexity-circularity-central moments mahalanobis 0.64 area-perimeter-convexity-circularity-central moments mahalanobis 0.64 area-perimeter-convexity-directality-central moments mahalanobis 0.6385714285714286 area-convexity-circularity-bist 10-hu moments mahalanobis 0.6385714285714286 area-convexity-circularity-bist 10-hu moments mahalanobis 0.63857142857142857142867 area-convexity-circularity-central moments mahalanobis 0.631428571 | | | 0.6571428571428571 |
| area-perimeter-convexity-inter 10-hu moments mahalanobis no.654285714285 | | | |
| perimeter-convexity-hist 10-hu moments mahalanobis 0.65428571428571428571428 area-circularity-hist 10-central moments mahalanobis 0.654285714285 | - , = | | |
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| area-perimeter-circularity-central moments | mahalanobis | 0.5785714285714286 |
| area-perimeter-convexity-circularity-rectangularity | mahalanobis | 0.5742857142857143 |
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| area-perimeter-circularity-hu moments | mahalanobis | 0.5642857142857143 |
| perimeter-convexity-circularity-rectangularity | mahalanobis | 0.5628571428571428 |
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| area-perimeter-convexity-rectangularity-fourier 10-hist 10-hu moments | euclidean | 0.5557142857142857 |
| area-convexity-fourier 10-hist 10 | euclidean | 0.5557142857142857 |
| area-convexity-rectangularity-fourier 10-hist 10-hu moments | euclidean | 0.5557142857142857 |
| area-fourier 10-hist 10-hu moments | euclidean | 0.5557142857142857 |
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| area-circularity-rectangularity-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-rectangularity-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-convexity-circularity-fourier_10 | euclidean | 0.5557142857142857 |
| area-perimeter-circularity-fourier_10 | euclidean | 0.5557142857142857 |
| area-perimeter-circularity-rectangularity-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-circularity-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-circularity-fourier_10-hist_10 | euclidean | 0.5557142857142857 |
| area-convexity-rectangularity-fourier 10 | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-circularity-rectangularity-fourier 10-hist 10 | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-fourier 10 | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-circularity-rectangularity-fourier 10-hu moments | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-circularity-rectangularity-fourier 10-hist 10-hu moments | euclidean | 0.5557142857142857 |
| area-perimeter-fourier 10-hist 10 | euclidean | 0.5557142857142857 |
| area-convexity-fourier 10-hu moments | euclidean | 0.5557142857142857 |
| area-convexity-circularity-fourier 10-hist 10-hu moments | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-rectangularity-fourier 10-hist 10 | euclidean | 0.5557142857142857 |
| area-circularity-rectangularity-fourier 10 | euclidean | 0.5557142857142857 |
| * * * = | euclidean | |
| area-perimeter-circularity-rectangularity-fourier_10-hist_10 | euclidean | 0.5557142857142857 |
| area-perimeter-circularity-rectangularity-fourier_10 | | 0.5557142857142857 |
| area-circularity-fourier_10-hist_10-hu_moments | euclidean | 0.5557142857142857 |
| area-rectangularity-fourier_10-hist_10-hu_moments | euclidean | 0.5557142857142857 |
| area-convexity-circularity-rectangularity-fourier_10-hist_10 | euclidean | 0.5557142857142857 |
| area-perimeter-rectangularity-fourier_10-hist_10-hu_moments | euclidean | 0.5557142857142857 |
| area-convexity-rectangularity-fourier_10-hist_10 | euclidean | 0.5557142857142857 |
| area-circularity-rectangularity-fourier_10-hist_10 | euclidean | 0.5557142857142857 |
| area-convexity-circularity-rectangularity-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-rectangularity-fourier_10 | euclidean | 0.5557142857142857 |
| area-perimeter-circularity-fourier_10-hist_10-hu_moments | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-circularity-fourier 10-hu moments | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-fourier 10-hist 10 | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-circularity-fourier 10 | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-convexity-fourier 10-hist 10-hu moments | euclidean | 0.5557142857142857 |
| area-perimeter-circularity-fourier 10-hist 10 | euclidean | 0.5557142857142857 |
| area-convexity-rectangularity-fourier 10-hu moments | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-circularity-rectangularity-fourier_10 | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-fourier 10-hist 10-hu moments | euclidean | 0.5557142857142857 |
| area-convexity-circularity-fourier 10-hist 10 | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-rectangularity-fourier 10-hu moments | euclidean | 0.5557142857142857 |
| area-perimeter-fourier 10-hist 10-hu moments | euclidean | 0.5557142857142857 |
| area-convexity-circularity-rectangularity-fourier 10 | | |
| | euclidean | 0.5557142857142857 |
| area-convexity-circularity-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-perimeter-rectangularity-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-circularity-fourier_10-hist_10 | euclidean | 0.5557142857142857 |
| area-perimeter-rectangularity-fourier_10-hist_10 | euclidean | 0.5557142857142857 |
| area-perimeter-circularity-fourier_10-hu_moments | euclidean | 0.5557142857142857 |
| area-perimeter-convexity-rectangularity | mahalanobis | 0.5528571428571428 |
| perimeter-circularity-rectangularity-fourier_10-hist_10 | manhattan | 0.5471428571428572 |
| perimeter-convexity-circularity-rectangularity-fourier_10-hu_moments | manhattan | 0.5471428571428572 |
| perimeter-convexity-circularity-fourier_10-hist_10 | manhattan | 0.5471428571428572 |
| perimeter-convexity-circularity-fourier_10-hu_moments | manhattan | 0.5471428571428572 |
| perimeter-circularity-rectangularity-fourier 10-hu moments | manhattan | 0.5471428571428572 |
| perimeter-circularity-rectangularity-fourier 10 | manhattan | 0.5471428571428572 |
| perimeter-convexity-circularity-rectangularity-fourier 10 | manhattan | 0.5471428571428572 |
| perimeter-circularity-fourier 10-hu moments | manhattan | 0.5471428571428572 |
| perimeter-circularity-fourier 10-hist 10-hu moments | manhattan | 0.5471428571428572 |
| permitted encurring rounds_10 may_10 mt_moments | 11101111101010111 | 0.0111120011420012 |

| perimeter-convexity-circularity-fourier 10 | manhattan | 0.5471428571428572 |
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| perimeter-convexity-circularity-rectangularity-fourier 10-hist 10 | manhattan | 0.5471428571428572 |
| perimeter-circularity-rectangularity-fourier 10-hist 10-hu moments | manhattan | 0.5471428571428572 |
| perimeter-convexity-circularity-fourier 10-hist 10-hu moments | manhattan | 0.5471428571428572 |
| perimeter-circularity-fourier 10-hist 10 | manhattan | 0.5471428571428572 |
| perimeter-convexity-circularity-rectangularity-fourier 10-hist 10-hu moments | manhattan | 0.5471428571428572 |
| perimeter-convexity-fourier 10-hist 10 | manhattan | 0.5442857142857143 |
| perimeter-convexity-rectangularity-fourier 10-hist 10 | manhattan | 0.5442857142857143 |
| perimeter-convexity-rectangularity-fourier 10 | manhattan | 0.5442857142857143 |
| perimeter-convexity-rectangularity-fourier 10-hu moments | manhattan | 0.5442857142857143 |
| perimeter-fourier 10-hist 10-hu moments | manhattan | 0.5442857142857143 |
| perimeter-convexity-rectangularity-fourier 10-hist 10-hu moments | manhattan | 0.5442857142857143 |
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| perimeter-rectangularity-fourier 10-hist 10-hu moments | manhattan | 0.5442857142857143 |
| perimeter-convexity-fourier 10-hist 10-hu moments | manhattan | 0.5442857142857143 |
| perimeter-rectangularity-fourier 10-hu moments | manhattan | 0.5442857142857143 |
| perimeter-rectangularity-fourier 10-hist 10 | manhattan | 0.5442857142857143 |
| circularity-fourier 10-hist 10-hu moments | manhattan | 0.54 |
| circularity-rectangularity-fourier 10-hist 10 | manhattan | 0.54 |
| convexity-circularity-fourier 10-hist 10 | manhattan | 0.54 |
| convexity-fourier 10-hist 10-hu moments | manhattan | 0.54 |
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| convexity-circularity-fourier 10-hu moments | manhattan | 0.54 |
| convexity-circularity-fourier_10-int_information for the convexity-circularity-rectangularity-fourier 10 | manhattan | 0.54 |
| rectangularity-fourier_10-hist_10-hu_moments | manhattan | 0.54 |
| convexity-rectangularity-fourier 10-hu moments | manhattan | 0.54 |
| convexity-rectangularity-fourier 10-hist 10-hu moments | manhattan | 0.54 |
| convexity rectangularity fourier 10-hist 10 | manhattan | 0.54 |
| convexity-rectangularity-fourier 10-hist 10-hu moments | manhattan | 0.54 |
| circularity-rectangularity-fourier 10-hist 10-hu moments | manhattan | 0.54 |
| convexity-circularity-rectangularity-fourier 10-hist 10 | manhattan | 0.54 |
| convexity-circularity-rectangularity-fourier 10-hu moments | manhattan | 0.54 |
| area-perimeter-convexity-circularity-hist 10-central moments | manhattan | 0.52 |
| circularity-rectangularity-hist 10-central moments | manhattan | 0.52 |
| area-convexity-circularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| perimeter-fourier 10-hist 10-central moments | manhattan | 0.52 |
| area-circularity-hist 10-central moments | manhattan | 0.52 |
| area-perimeter-convexity-rectangularity-hist 10-central moments | manhattan | 0.52 |
| perimeter-circularity-fourier 10-central moments | manhattan | 0.52 |
| area-rectangularity-hist 10-central moments | manhattan | 0.52 |
| perimeter-convexity-fourier 10-central moments | manhattan | 0.52 |
| area-perimeter-rectangularity-central moments | manhattan | 0.52 |
| area-convexity-fourier 10-central moments | manhattan | 0.52 |
| perimeter-circularity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| perimeter-convexity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| area-perimeter-circularity-fourier 10-central moments | manhattan | 0.52 |
| area-perimeter-convexity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| perimeter-convexity-rectangularity-hourier_10-mst_10-central_moments | manhattan | 0.52 |
| area-perimeter-convexity-rectangularity-inst_10-central_moments | manhattan | 0.52 |
| area-perimeter-convexity-circularity-lourier_10-inst_10-central_moments | manhattan | 0.52 |
| area-perimeter-circularity-rectangularity-central_moments area-perimeter-fourier_10-central_moments | manhattan | 0.52 |
| area-perimeter-fourier_fo-central_moments area-perimeter-circularity-hist 10-central_moments | manhattan | 0.52 |
| perimeter-circularity-nist_10-central_moments perimeter-convexity-fourier 10-hist 10-central moments | mannattan | 0.52 |
| area-convexity-rectangularity-fourier 10-central moments | | 0.52 |
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| area-perimeter-hist_10-central_moments | manhattan | 0.52 |

| area-perimeter-convexity-rectangularity-central moments | manhattan | 0.52 |
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| area-circularity-fourier 10-central moments | manhattan | 0.52 |
| area-circularity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| perimeter-convexity-circularity-rectangularity-hist 10-central moments | manhattan | 0.52 |
| perimeter-circularity-hist 10-central moments | manhattan | 0.52 |
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| area-perimeter-convexity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
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| area-circularity-rectangularity-central moments | manhattan | 0.52 |
| perimeter-convexity-circularity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| perimeter-convexity-circularity-central moments | manhattan | 0.52 |
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| area-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| perimeter-convexity-rectangularity-central moments | manhattan | 0.52 |
| area-fourier_10-hist_10-central_moments | manhattan | 0.52 |
| area-perimeter-circularity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| perimeter-rectangularity-hist 10-central moments | manhattan | 0.52 |
| area-convexity-hist 10-central moments | manhattan | 0.52 |
| area-perimeter-convexity-fourier 10-hist 10-central moments | manhattan | 0.52 |
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| area-convexity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
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| perimeter-circularity-rectangularity-hist 10-central moments | manhattan | 0.52 |
| circularity-rectangularity-flurier 10-hist 10-central moments | manhattan | 0.52 |
| perimeter-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| area-perimeter-convexity-fourier 10-central moments | manhattan | 0.52 |
| convexity-circularity-rectangularity-hist 10-central moments | manhattan | 0.52 |
| convexity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| convexity-circularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| perimeter-circularity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| area-convexity-rectangularity-central moments | manhattan | 0.52 |
| circularity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| convexity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| area-convexity-circularity-rectangularity-hist 10-central moments | manhattan | 0.52 |
| area-perimeter-circularity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| convexity-circularity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| convexity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| perimeter-convexity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| circularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| convexity-circularity-hist 10-central moments | manhattan | 0.52 |
| convexity-circularity-mst_10 central_moments | manhattan | 0.52 |
| area-perimeter-convexity-circularity-rectangularity-central moments | manhattan | 0.52 |
| convexity-circularity-fourier 10-central moments | manhattan | 0.52 |
| area-perimeter-convexity-circularity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| convexity-circularity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| perimeter-circularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| convexity-rectangularity-hist 10-central moments | manhattan | 0.52 |
| area-perimeter-circularity-central moments | manhattan | 0.52 |
| area-convexity-rectangularity-hist 10-central moments | manhattan | 0.52 |
| area-perimeter-convexity-circularity-entral moments | manhattan | 0.52 |
| area permission convexity encurating contrar_moments | mannavian | 1 0.02 |

| area-convexity-circularity-central moments | manhattan | 0.52 |
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| area-perimeter-fourier 10-hist 10-central moments | manhattan | 0.52 |
| perimeter-convexity-circularity-hist 10-central moments | manhattan | 0.52 |
| area-perimeter-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| area-perimeter-rectangularity-hist 10-central moments | manhattan | 0.52 |
| area-circularity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| area-perimeter-convexity-circularity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| area-convexity-fourier 10-hist 10-central moments | manhattan | 0.52 |
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| area-convexity-rectangularity-fourier 10-central moments | manhattan | 0.52 |
| perimeter-convexity-circularity-rectangularity-central moments | manhattan | 0.52 |
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| area-convexity-circularity-fourier 10-central moments | manhattan | 0.52 |
| area-convexity-circularity-rectangularity-central moments | manhattan | 0.52 |
| area-perimeter-convexity-central moments | manhattan | 0.52 |
| area-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| perimeter-convexity-circularity-rectangularity-fourier 10-hist 10-central moments | manhattan | 0.52 |
| perimeter-rectangularity-fourier 10-hu moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-fourier 10-hist 10-hu moments | euclidean | 0.4928571428571429 |
| circularity-rectangularity-fourier 10-hist 10 | euclidean | 0.4928571428571429 |
| convexity-circularity-rectangularity-fourier 10 | euclidean | 0.4928571428571429 |
| convexity-circularity-fourier 10-hu moments | euclidean | 0.4928571428571429 |
| convexity-rectangularity-fourier_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-circularity-rectangularity-fourier 10-hist 10 | euclidean | 0.4928571428571429 |
| perimeter-convexity-fourier 10-hu moments | euclidean | 0.4928571428571429 |
| convexity-circularity-fourier 10-hist 10 | euclidean | 0.4928571428571429 |
| circularity-rectangularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-circularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| convexity-rectangularity-fourier_10-hist_10 | euclidean | 0.4928571428571429 |
| convexity-rectangularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| convexity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-rectangularity-fourier_10-hist_10 | euclidean | 0.4928571428571429 |
| perimeter-convexity-fourier_10-hist_10 | euclidean | 0.4928571428571429 |
| perimeter-circularity-rectangularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| rectangularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-circularity-rectangularity-fourier_10 | euclidean | 0.4928571428571429 |
| convexity-circularity-rectangularity-fourier_10-hu_moments | euclidean | 0.4928571428571429 |
| convexity-circularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-circularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| convexity-circularity-rectangularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-circularity-fourier_10 | euclidean | 0.4928571428571429 |
| circularity-rectangularity-fourier_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-rectangularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-rectangularity-fourier_10-hist_10 | euclidean | 0.4928571428571429 |
| perimeter-circularity-rectangularity-fourier_10-hist_10 | euclidean | 0.4928571428571429 |
| perimeter-circularity-rectangularity-fourier_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-circularity-rectangularity-fourier_10 | euclidean | 0.4928571428571429 |
| perimeter-convexity-circularity-rectangularity-fourier_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-circularity-fourier_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-circularity-rectangularity-fourier_10-hist_10-hu_moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-circularity-fourier_10-hist_10 | euclidean | 0.4928571428571429 |
| perimeter-circularity-fourier_10-hist_10 | euclidean | 0.4928571428571429 |

| perimeter-rectangularity-fourier 10-hist 10-hu moments | euclidean | 0.4928571428571429 |
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| perimeter-circularity-fourier 10-hu moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-rectangularity-fourier 10 | euclidean | 0.4928571428571429 |
| circularity-fourier 10-hist 10-hu moments | euclidean | 0.4928571428571429 |
| perimeter-convexity-rectangularity-fourier 10-hu moments | euclidean | 0.4928571428571429 |
| convexity-circularity-rectangularity-fourier 10-hist 10 | euclidean | 0.4928571428571429 |
| area-perimeter-convexity-circularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-circularity-rectangularity-central_moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-rectangularity-fourier_10-hist_10-central_moments | euclidean | 0.4842857142857142 |
| area-convexity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| circularity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| convexity-circularity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| area-circularity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-circularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-circularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
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| area-convexity-circularity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-circularity-rectangularity-fourier_10-hist_10-central_moments | euclidean | 0.4842857142857142 |
| convexity-circularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
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| perimeter-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
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| area-convexity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-circularity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-circularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| convexity-circularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
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| perimeter-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| circularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-circularity-central moments | euclidean | 0.4842857142857142 |
| area-convexity-circularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-circularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| convexity-circularity-rectangularity-fourier_10-hist_10-central_moments | euclidean | 0.4842857142857142 |
| area-perimeter-rectangularity-central moments | euclidean | 0.4842857142857142 |
| area-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-circularity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| convexity-circularity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| circularity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| convexity-circularity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-central moments | euclidean | 0.4842857142857142 |
| circularity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-circularity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-circularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-circularity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-circularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-circularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-circularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-circularity-central moments | euclidean | 0.4842857142857142 |
| perimeter-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| Permisser recommendation required to temptor monitoring | Jacinacan | 0.1012001112001142 |

| area-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
|--|-------------|--------------------|
| area-perimeter-circularity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-circularity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-circularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-circularity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-circularity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-circularity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-circularity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| area-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-circularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-circularity-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-circularity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-convexity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-circularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-circularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| convexity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-circularity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| convexity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| convexity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-circularity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-circularity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-circularity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-circularity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| area-circularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-circularity | mahalanobis | 0.4785714285714286 |
| area-perimeter-circularity-rectangularity | mahalanobis | 0.4757142857142857 |
| perimeter-circularity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-circularity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-hist 10-central moments | euclidean | 0.4842857142857142 |
| perimeter-convexity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| <u> </u> | | |

| area-perimeter-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
|--|-------------|--------------------|
| perimeter-circularity-rectangularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-rectangularity-central moments | euclidean | 0.4842857142857142 |
| area-circularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-rectangularity-fourier 10-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-fourier_10-hist_10-central_moments | euclidean | 0.4842857142857142 |
| area-perimeter-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-rectangularity-hist 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-circularity-fourier 10-central moments | euclidean | 0.4842857142857142 |
| area-perimeter-convexity-circularity | mahalanobis | 0.4785714285714286 |
| area-perimeter-circularity-rectangularity | mahalanobis | 0.4757142857142857 |
| convexity-rectangularity-hist 10-hu moments | manhattan | 0.3957142857142857 |
| convexity-circularity-rectangularity-hist 10-hu moments | chisquared | 0.3871428571428571 |
| convexity-circularity-rectangularity-hist_10 | chisquared | 0.3857142857142857 |
| circularity-rectangularity-hist_10-hu_moments | chisquared | 0.3657142857142857 |
| convexity-circularity-hist_10-hu_moments | chisquared | 0.3557142857142857 |
| perimeter-circularity-rectangularity-hist_10 | chisquared | 0.3414285714285714 |
| perimeter-circularity-rectangularity-hist_10-hu_moments | chisquared | 0.3414285714285714 |
| perimeter-convexity-circularity-rectangularity-hist_10 | chisquared | 0.34 |
| perimeter-convexity-circularity-rectangularity-hist_10-hu_moments | chisquared | 0.34 |
| perimeter-convexity-circularity-rectangularity | chisquared | 0.3371428571428571 |
| perimeter-convexity-circularity-rectangularity-hu_moments | chisquared | 0.3371428571428571 |
| perimeter-convexity-circularity-hist_10 | chisquared | 0.3342857142857143 |
| perimeter-circularity-rectangularity-hu_moments | chisquared | 0.3342857142857143 |
| perimeter-convexity-circularity-hist_10-hu_moments | chisquared | 0.3342857142857143 |
| convexity-rectangularity-hist_10-hu_moments | euclidean | 0.3314285714285714 |
| perimeter-convexity-circularity-hu_moments | chisquared | 0.33 |
| area-perimeter-circularity-rectangularity | chisquared | 0.3271428571428571 |
| area-perimeter-circularity-rectangularity-hist_10-hu_moments | chisquared | 0.3271428571428571 |
| area-perimeter-convexity-circularity-rectangularity | chisquared | 0.3271428571428571 |
| area-perimeter-circularity-rectangularity-hist_10 | chisquared | 0.3271428571428571 |
| area-perimeter-convexity-circularity-rectangularity-hist_10-hu_moments | chisquared | 0.3271428571428571 |