Report

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Omdena UAE Chapter-AI-Based Road Inspection System

Methodology

Methodology of these model is to segment the image based on the edges of cracks.

Therefore the segmentation through gabor filter is applied.

The features from the image are extracted and stored in csv file.

The CSV file is based on these parameters (arrcontrrast, arrcorrelation, arrasms, arrhomo)

Train_csv is the file for training and testing purpose

This data set is divided as 60 40(training 60% and testing 40%)

Then after that machine learning classification algorithms are used to train the model

Methodology

The model is built with approximate Accuracy : 0.8415061

Classifiers used to build the model

1. Logistic Regression

2. SVM

3. Decision Tree

4. Naive Baise

5. KNN

Report

Average classification Report for all classifiers

	precision	recall	f1-score	support
0	0.85	0.99	0.91	962
1	0.62	0.08	0.14	63
2	0.41	0.10	0.16	69
3	0.00	0.00	0.00	48
accuracy			0.84	1142
macro avg	0.47	0.29	0.30	1142
weighted avg	0.78	0.84	0.79	1142