Literature Survey

Title : Applying image analysis to auto insurance Triage

Methodology :

Image analysis and pattern recognition are applied to automatically identify and characterize automobile damage.

Advantages :

Because of the advancement of image analysis and pattern recognition technologies, the auto insurance industry could significantly benefit.

Disadvantages :

The drawback is that the automobile damaged can be analyzed only having white background otherwise it will be not able to give the desired results.

Author/ Publication Year :

Li Ying & Dorai Chitra, 2012

Title : Image based automatic vehicle damage detection

Methodology :

This approach requires 3D computer aided design (CAD) modes of the considered vehicle to identify how it would look if it were undamaged.

Advantages :

Automatically detecting the damage of the vehicle using photographs clicked at the accident site is extremely functional as it can greatly decrease the rate of processing insurance claims and it will also provide greater

Disadvantages :

Vehicles have very reflective metallic bodies the photographs taken in such an uncontrolled environment can be expected to have a certain amount of inter object reflection. Application of standard computer vision

Author/ Publication Year :

Srimal Jayewardene',2013

Title : A Secure AI- driven Architecture for Automated Insurance Systems: Fraud Detection and Risk Measurement

Methodology :

Blockchain, data analysis, machine learning, AI for damage identification.

Advantages :

Proposed classifiers ensure not only the best accuracy in detecting fraudulent claims but also can classify different types of fraud for insurance unlike the existing solutions.

Disadvantages :

The major drawback of the proposed model is that it only identifies the physical visible damage and not of the internal or the interior damage.

Author/ Publication Year :

M.Wassel,2019

Title : Car damage detection and classification

Methodology :

CNN model is trained on ImageNet dataset. After fine tuning the dataset, transferlearning with L2 regularization is Applied

Advantages :

Pre-trained VGG model not only detect damaged part of a car but also assess its location and severity.

Disadvantages :

Transfer learning and regularization can work better than those of fine tuning.

Author/ Publication Year :

Phyu Mar Kyu,Kuntpong Woraratpanya, 2020

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