

LITERATURE SURVEY

Date	21 October 2022
Project Name	Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
Maximum Marks	2 Marks

INTRODUCTION:

In today's world, accidents are very common because the people are driving cars very fastly on the road. People claim the money for repair through vehicle insurance when the accident happens. The damaged car is examined and it will take more time to claim the amount checking all the company policies. And because of incorrect claims, the company doesn't make payments properly. So, just by sending the image of damaged car, the website of Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies performs damage detection in a minute rather than days if it is inspected visually.

S. NO	PAPER TITLE	AUTHOR(s)	YEAR	ABSTRACT	FUNCTIONS	RESOURCE LINK
1.	Intelligent Vehicle Damage Assessment system based on computer vision	Zhu Qianqian, Guo Weiming, Shen Ying, and Zhao Zihao	2020	At present, under the guidance of the new generation of information technology, the rapid accumulation of data, the continuous improvement of computing power have made profound changes in the development environment of artificial intelligence.	The system completes the whole process of survey and damage determination through four functions. They are: 1) Accident investigation, 2) Intelligent image damage assessment, 3) Damage result output, 4) Vehicle insurance anti- fraud.	(PDF) Research on Intelligent Vehicle Damage Assessment System Based on Computer Vision (researchgate.net)

2.	Car Damage Assessment for Insurance Companies	Mandara G and Prashant Ankalkoti	2022	Analysis of the damaged vehicle that can be automatically claiming insurance that takes human resource, time and effort. Image processing and machine learning techniques are analyzing the vehicle damage in the proposed solution. In Advanced solution helps to speed up the claiming process sufficiently.	Detect the car damage using photo taken at the accident scene is very useful to reduce the cost of processing insurance claims, as well as provide greater convenience for vehicle users. Dataset Explanation, Describing the level of damage, CNN Model and VGG16 Algorithm.	Paper 5048.pdf (ijarsct.co.in)
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3.	Image Based Automatic Vehicle Damage Detection	Srimal Jayawardena	2013	Automatically detecting vehicle damage using photographs taken at the accident scene is very useful as it can greatly reduce the cost of processing insurance claims, as well as provide greater convenience for vehicle users.	To use the 3D CAD model projection to help in segmenting and separating components of a vehicle body like the doors and fenders which are separated by weak boundary cues.	(PDF) Image Based Automatic Vehicle Damage Detection (researchgate.net)
4.	A Very Deep Transfer Learning Model for Vehicle Damage Detection and Localization	Najmeddine Dhieb, Hakim Ghazzai, Hichem Besbes, and Yehia Massoud	2019	Claims leakage is a major problem engendering tremendous losses for insurance companies. Those losses are due to the difference between the amount paid by insurance companies and the exact amount that should be spent, which cost millions of dollars yearly.	Deep learning, CNN, and transfer learning techniques are used.	(PDF) A Very Deep Transfer Learning Model for Vehicle Damage Detection and Localization (researchgate.net)

