

INTELLIGENT VEHICLE DAMAGE ASSESSMENT AND COST ESTIMATOR FOR INSURANCE COMPANIES

LITERATURE SURVEY

| TITLE | AUTHOR | TECHNIQUES | MERITS | DEMERITS |
|--|--|---|---|---|
| Car Damage Detection using Machine Learning | Girish N , Mohammed Aqeel Arshad | Transfer learning and a mask regional convolutional neural network (Mask RCNN) | The results were quite accurate even though a small dataset was used | the picture object regional mismatch problem |
| Damage Assessment of a vehicle and Insurance Reclaim | Vaibhav Agarwal , Utsav Khandelwal, Shivam Kumar , Raja Kumar , Shilpa M | Convolution Neural Network, Deep Learning, Image classification, R- CNN and object detection. | It can categorize the proportion of damaged parts and determine whether they need to be replaced or repaired. | It only identifies the physical visible damage and not of the internal or the interior damage. |
| Car Damage Assessment Based on VGG Models | Phyu Mar Kyu, Kuntpong Worartpanya | Deep Learning, Transfer Learning, Pre-Trained VGG models | It uses very small receptive fields instead of massive fields. | It is a huge network, which means that it takes more time to train its parameters. |
| Assessing Car Damage with Convolutional Neural Networks | Harit Bandi, Suyash Joshi, Siddhant Bhagat, Amol Deshpande | Image recognition, Image Net, Transfer learning, Convolution Neural Network | The epoch number for the best performance of validation accuracy | Large training data needed |

REFERAL LINK: <https://site.ieee.org/thailand-cis/files/2019/12/JSCI8-Paper-5.pdf> , <https://ijarcce.com/wp-content/uploads/2021/09/IJARCCE.2021.10808.pdf> , <https://ijarcce.com/wp-content/uploads/2021/09/IJARCCE.2021.10808.pdf>