**Intelligent Vehicle Damage Assessment & Cost Estimator for Insurance Companies**

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| **S.NO** | **PAPER TITLE** | **AUTHOR NAME** | **PROJECT DESCRIPTION** | **DRAWBACKS** | **IDEA** |
| **1.** | Research on Intelligent Vehicle Damage Assessment System Based on Computer Vision. | Zhu Qianqian ,Guo Weiming ,ShenYing and ZhaoZihao | In this paper, based on the demand of automobile insurance claims for intelligent transportation, combined with abundant basic data and advanced machine vision algorithms, an intelligent damage determination system of 'Artificial Intelligence Vehicle Insurance' is constructed. This paper first introduces the functions of the intelligent damage assessment system. Secondly, it discusses the realization path of each functional module in detail, and finally puts forward the vision for the future. | The drawback is to explore the innovation of insurance technology of 'AI + Vehicle Insurance. | Inserting of sensors in the car. |
| **2.** | Damage Assessment of a vehicle and Insurance Reclaim. | Vaibhav Agarwal ,Utsav Khandelwal, Shivam Kumar, Raja Kumar, Shilpa M | By reducing loss adjustment costs, improvements in the First Notice of Loss and the speed with which claims are examined and evaluated might save a lot of money in the automobile insurance claims process. Car damage is automatically identified and classified using advanced picture analysis and pattern recognition technology. A technique that compares before-and after-accident car images to automatically detect the damaged location. | The major drawback of the proposed model is that it only identifies the physical visible damage ang not the internal or interior damage. | Insurance company get material details from seller and estimate it to owner. |
| **3.** | Assessing Car Damage with Convolutional Neural Networks. | Harit Bandi,Suyash Joshi,Siddhant Bhagat,Amol Deshpande | Manual estimation of damages in fields like construction, vehicular accidents has been the mainstay of the insurance business. However, such methods are replete with biases and inaccurate estimations. This paper deals with estimating car damage, primarily with auto insurers as our key potential customers. For this purpose, three distinct Transfer Learning approaches are used which detect the presence of damage, location, and severity of the damage. | The drawback here is Driver behavior monitoring.  Machine learning enhanced solutions help in monitoring driver’s behavior. | Fast message transfer for decision making and to consume time. |
| **4.** | Car Damage Assessment for Insurance Companies. | Mandara G and Prashant Ankalkoti | The data contains three classes namely train, test and validation. Trained image is compared with the test image. Car has to be trained for many times by using epochs which means how many times the algorithm can work between the whole training dataset. In this graph they can take only two times of running the algorithm. Finally the comparison is completed lastly print the graph containing accuracy, validation accuracy, loss and validation loss. | Need for human involvement. Although the process could be absolutely automated, it still needs human involvement to detect and avoid insurance cases. | Online insurance agency. |