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The 2022 International Conference on Digital Image Computing: Techniques and Applications : Submission (85) has been created.

Microsoft CMT <email@msr-cmt.org>

Sun, Aug 21, 2022 at 7:13 PM

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Hello,

The following submission has been created.

Track Name: DICTA2022

Paper ID: 85

Paper Title: Transfer Learning Method to Determine the Freshness of Fruits and Vegetables from Image Dataset

Abstract:

Fruits and vegetables are valuable in our life due to their strong nutritional and therapeutic value. The process of manually determining the freshness of fruits and vegetables using human vision is time-consuming. In this study, we have suggested a model that will determine the freshness of fruits and vegetables. With the help of our model, we can quickly determine which fruits and vegetables we should consume before they go stale. It contributes in minimizing the financial loss, brought on by wasted fruits and vegetables. MobileNetV2 and InceptionV3 are pre-trained convolutional neural networks which are finetuned using the transfer learning approach. These models are used in our research to help categorize the freshness of fruits and vegetables. To boost the amount of data, we built a new dataset by combining the two Kaggle datasets named Fruits fresh and rotten for classification and Fresh and Stale Images of Fruits and Vegetables. Among MobileNetV2 and InceptionV3 models, MobileNetV2 scored better with an accuracy of 98% to detect the freshness of fruits and vegetables.

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Primary Subject Area: Computer vision

Secondary Subject Areas: Not Entered

Submission Files: Transfer Learning Method to Determine the Freshness of Fruits and Vegetables from Image Dataset.pdf (750 Kb, Sun, 21 Aug 2022 11:39:41 GMT)

Submission Questions Response: Not Entered

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