

Proposal for a Web System for the Control of Fungal Diseases in Grapes in Fruits Markets

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Abstract : Fungal diseases are common in vineyards; they cause a decrease in the quality of the products that can be sold, generating distrust of the customer towards the seller when buying fruit. Currently, technology allows the classification of fruits according to their characteristics thanks to artificial intelligence. This study proposes the implementation of a control system that allows the identification of the main fungal diseases present in the Italia grape, making use of a convolutional neural network (CNN), OpenCV, and TensorFlow. The methodology used was based on a collection of 20 articles referring to the proposed research on quality control, classification, and recognition of fruits through artificial vision techniques.

Keywords : computer vision, convolutional neural networks, quality control, fruit market, OpenCV, TensorFlow

Conference Title : ICPRCV 2023 : International Conference on Pattern Recognition and Computer Vision

Conference Location : Haifa, Israel

Conference Dates : March 06-07, 2023