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Recent decision-making methods [1]. Significant advances in test techniques and computational technologies have been developed to automate the development of production lines. Additionally, sensor technology progress has allowed the emergence of revolutionary techniques for quality control, such as visual inspection systems [2]. These systems are composed of a device for recording the image, a light source, and a digital signal processor module. In practice, these system types improve the processing speed and lower the cost of inspection processes.

For instance, visual inspection systems present several advantages: accuracy and repeatability in hands-free

implied in computer vision tasks [2]. Multilayer perceptrons and recurrent networks are commonly used in the area of artificial neural networks. However, deep learning or deep neural networks have been receiving increasing attention due to their accuracy for this aim [10]. Thanks to an accelerated increase in available storage and computational capabilities, these models have won numerous pattern recognition and machine learning contests in recent years [11].

Recently, many works have been focused on this application by taking advantage of neural network capacity [12], [13], [14], [15], [16]. In [12], a computer image scheme to cluster flax cultivars according to market requirements is applied. In

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Sincerely,

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