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De-Noising Diseased Plant Leaf Image

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Abstract: Health of the plant is of paramount concern in order to increase the agricultural productivity. Diseases contribute considerably in lowering the productivity and yield quality. Hence, it is of utmost importance to take timely and judicious steps to thwart further yield loss. The assistance of image processing techniques not only saves considerable amount of time but also indirectly ramparts the crops to improve agriculture productivity. In image processing, quality of an image plays a significant role that cannot be overlooked. In this paper different de-noising techniques are presented which improve the quality of the image. The results of these de-noising techniques are presented in terms of MSE and PSNR values.

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I. Introduction

There are a number trending researches in various fields these days - artificial intelligence, networking and security, internet of things and big data. Machine learning [32] works by experience with the help of algorithms. Deep learning is somewhat another concept related to machine learning including convolutional networks and deep convolutional neural networks which are helping a lot in object detection [29]. IOT [30] depicts a network of objects that are physical into domains connected with different technologies including sensors and software. Since IOT cannot exist without network [26] [31], so different security frameworks may be required for smooth working. Other security frameworks may work well with mobile device applications [23]. This never-ending exploration is boon for the society in various aspects. Out of these trending topics, image processing is now up to a new level.

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