

## **ABSTRACT**

# **DIAGNOSIS OF ROSE LAEF DISEASES USING A DEEP LEARNING APPROACH**

by:

**LATIFAH NABILAH**

[latifah.2011010045@mail.darmajaya.ac.id](mailto:latifah.2011010045@mail.darmajaya.ac.id)

*This article proposes a new approach to improve the diagnosis of foliar diseases in rose plants. This research reviews the methods existing methods and their limitations. The proposed approach is to use a Convolutional Neural Network (CNN) model to accurately identify the types of leaf disease in roses. The researchers conducted a series of experiments to determine the level of accuracy possible achieved, with results achieving validation accuracy of 99.65%. This approach has the potential to be revolutionary in monitoring plant health and reducing losses caused by foliar diseases in roses. Work on future challenges in expanding this approach to different types of crops and different farming environments.*

**Keywords: Deep Learning, Convolutional Neural Network, Rose Diseases**

