Deep Learning Based Approaches for Identification of Medicinal Plants

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Abstract*: The classification and identification of medicinal plants often pose challenges to botanists, chemists, and healthcare professionals due to the sheer diversity of plant species, morphological similarities, and environmental factors. This difficulty can impede research, application in healthcare, and the effective use of medicinal plants in traditional and modern treatments. M-net, as proposed, aims to bridge this gap using a machine learning approach tailored for medicinal plant identification. The core of M-net is the VGG16 convolutional neural network (CNN) architecture, which is renowned for its deep layers and ability to extract rich, hierarchical features from images.*

Keywords: Medicinal plant identification; M-net