EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

IMAGE PREPROCESSING

Applying ImageData Generator Functionality to Trainset

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Importing The ImageDataGenerator Library

import keras
from keras.preprocessing.image import ImageDataGenerator

Define the parameters/arguments for ImageDataGenerator class

train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,
rotation_range=180,zoom_range=0.2, horizontal_flip=True)
test_datagen=ImageDataGenerator(rescale=1./255)

Applying ImageDataGenerator functionality to trainset

x_train=train_datagen.flow_from_directory(r'/content/drive/MyDrive/Dataset/train_set'
, target_size=(128,128),batch_size=32, class_mode='binary')

Found 436 images belonging to 2 classes.

Applying ImageDataGenerator functionality to testset

x_test=test_datagen.flow_from_directory(r'/content/drive/MyDrive/Dataset/test_set', target_size=(128,128),batch_size=32, class_mode='binary') Found 121 images belonging to 2 classes.