

EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

VIDEO ANALYSIS

OPENCV FOR VIDEO PROCESSING

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| Date | 07 November 2022 |
| Team ID | PNT2022TMID28483 |
| Project Name | Emerging Methods for Early Detection of Forest Fires |

pip install twilio

Looking in indexes: <https://pypi.org/simple>, <https://us-python.pkg.dev/colab-wheels/public/simple/>

Requirement already satisfied: twilio in
/usr/local/lib/python3.7/dist-packages (7.15.1)

Requirement already satisfied: pytz in /usr/local/lib/python3.7/dist-packages
(from twilio) (2022.5)

Requirement already satisfied: requests>=2.0.0 in
/usr/local/lib/python3.7/dist-packages (from twilio) (2.23.0) Requirement already
satisfied: PyJWT<3.0.0,>=2.0.0 in

/usr/local/lib/python3.7/dist-packages (from twilio) (2.6.0) Requirement already
satisfied: urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 in

/usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (1.24.3)

Requirement already satisfied: certifi>=2017.4.17 in

/usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio)

(2022.9.24)

Requirement already satisfied: idna<3,>=2.5 in

/usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (2.10)

Requirement already satisfied: chardet<4,>=3.0.2 in

/usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (3.0.4) pip

install playsound

Looking in indexes: <https://pypi.org/simple>, [https://us-](https://us-python.pkg.dev/colab-wheels/public/simple/)

[python.pkg.dev/colab-wheels/public/simple/](https://us-python.pkg.dev/colab-wheels/public/simple/)

Requirement already satisfied: playsound in

/usr/local/lib/python3.7/dist-packages (1.3.0)

#import opencv library

import cv2 *#import*

numpy import numpy

as np

#import image function from keras from keras.preprocessing import image

#import load_model from keras

from keras.models import load_model

#import client from twilio API from twilio.rest import

Client *#import playsound package*

from playsound import playsound

WARNING:playsound:playsound is relying on another python subprocess. Please use `pip install pygobject` if you want playsound to run more efficiently.

#load the saved model model=load_model("forest1.h5")

#define video video=cv2.VideoCapture(0) *#define the features*

name=['forest','with fire']