EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

VIDEO ANALYSIS

OPENCV FOR VIDEO PROCESSING

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-
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']
```