

# Texture Inspection Using the Voice Based Biometric Authentication in the Quantum Computation

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## Abstract:

Texture inspection has remained an important substance throughout the whole history because with the advances of the mobile graphics and many hardware, high-quality image processing for the basic wood texture in the Wolfram mathematical. We also used wood in the building material and household furniture to find out the type of wood that can be used as a specific material and to help in the development of the different wood texture in the android studio.

Cedar is a fibrous and a porous structural tissue found in the roots of trees and other woody plants. The colour of the wood has been depend on the reflection of the most important component of the wood grain may be the process of refining or protection of the wooden surface in the production of the manufacturing cost 5 and 30 %.

Various Woods textures having the appearance of the wood that require the wood joints for the great variation between sapwood and heartwood.

**Keywords:** Wood grain, Quantum computation, sapwood, heartwood

## 1. Introduction:

We study that the colour of the wood having different in the wood textures the Sang et al has study the images of the real wood which are present in the wood surface and the technology we are using the classifier mainly the image category classifier we are using for testing of the various textures in the android studio. We also comparing the pattern recognition of the wood texture for comparing the scanner noise which having the image processing help applications in the blender and the various other software which testing the wood textures by Glcm features.

### Aim of the research:

To find the problems and limiting the problem so that it can be raised in a study and also make the terms if accuracy and time efficiency in the machine learning is a solution for the problem of the binary pattern which make the different wood features and the quality of the wood is tested.

A novel method has study the colour of the early wood texture and the entropy of the wood texture in the digital image processing.

In the research we study the different wood texture classification like treatment and scanning of wood grain which can based on the real fact. We reduced the accuracy of the wood while using the classifier which are present in the timber production and also present in the design of the engineering product.

We also research on the wood texture are tested in the field of the quantum computing software we can test and trained the data in the Wolfram Mathematical and also study the birch wood having the colour consistency and having the contrast in the wood texture in the android studio wooden app.

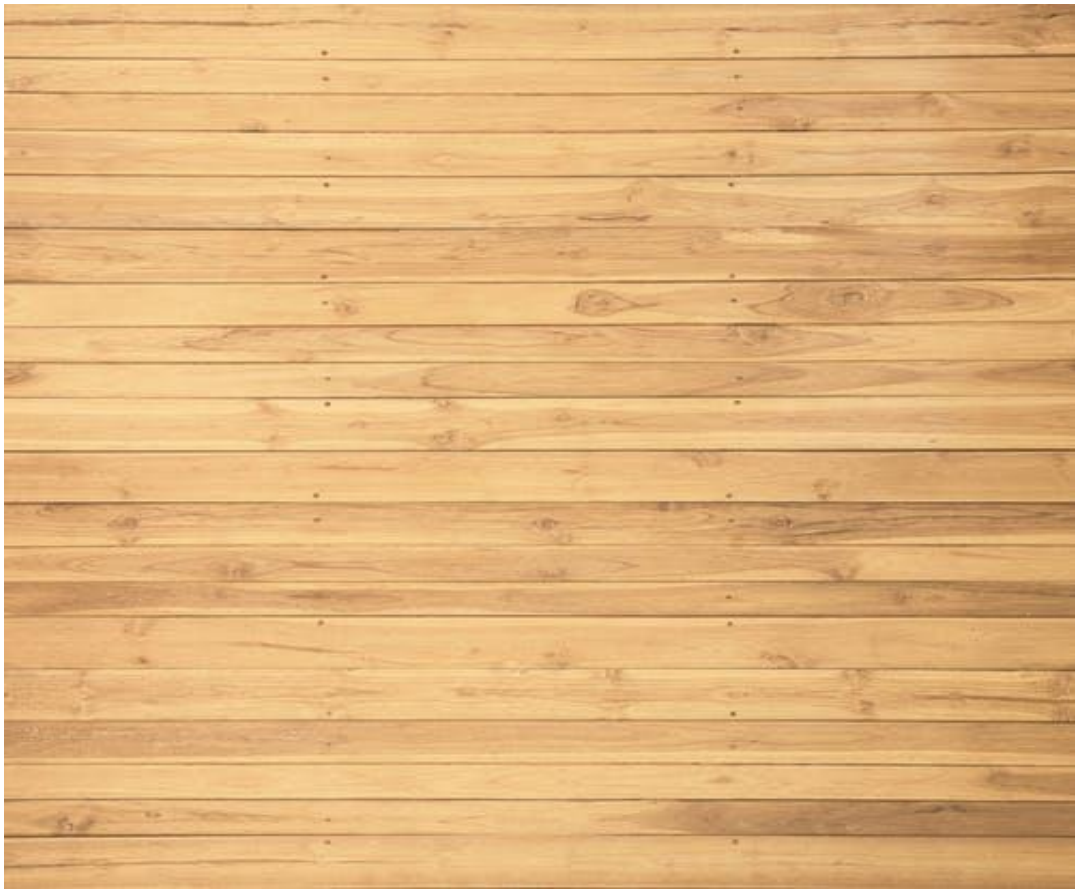
## 2. Materials and methods:

We study the wooden texture by the gray level co-occurrence matrix as selected as the pieces of wood inspection with the help of the various software.

Datasets of the wood textures:-























































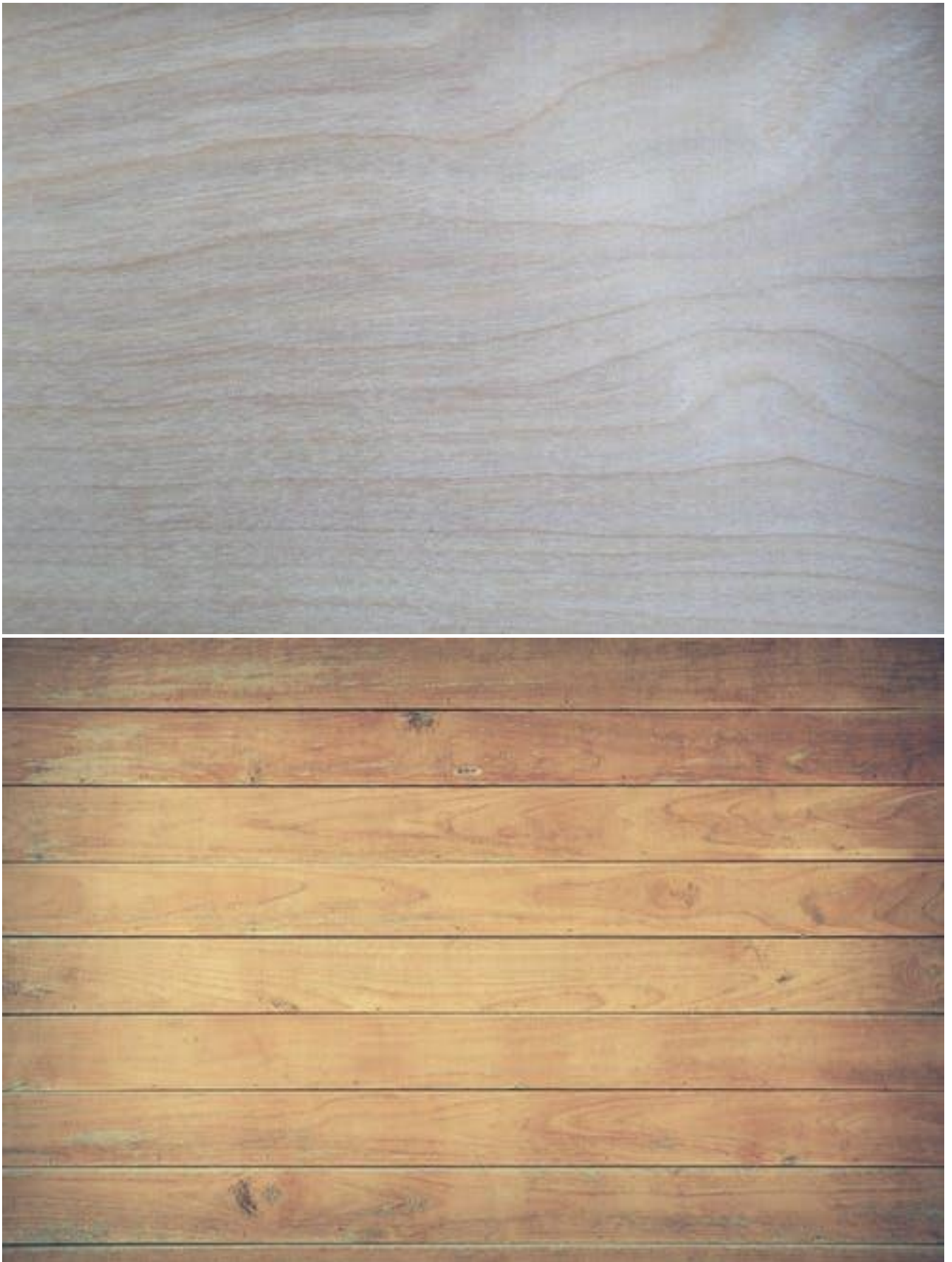












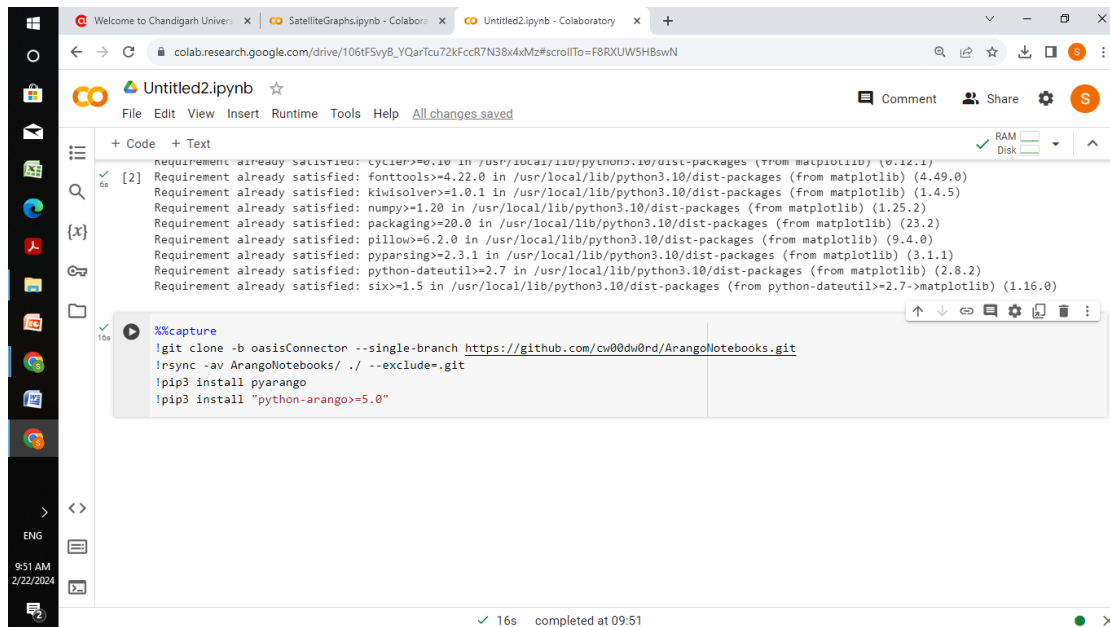




**Table 1 Basic information of the wood tree species:-**

Wood name	Tree species	Production area
Buxus	B. sinica	China
Parinari	P.campestris	China
phoebe	P.zhennan	Africa
Acer spp.	A.nigrum	Brazil
Dalbergia	D.melanoxyton	Vietnam
Milletia	M.laurentii	North America
Quercus spp.	Q.mongolica	China

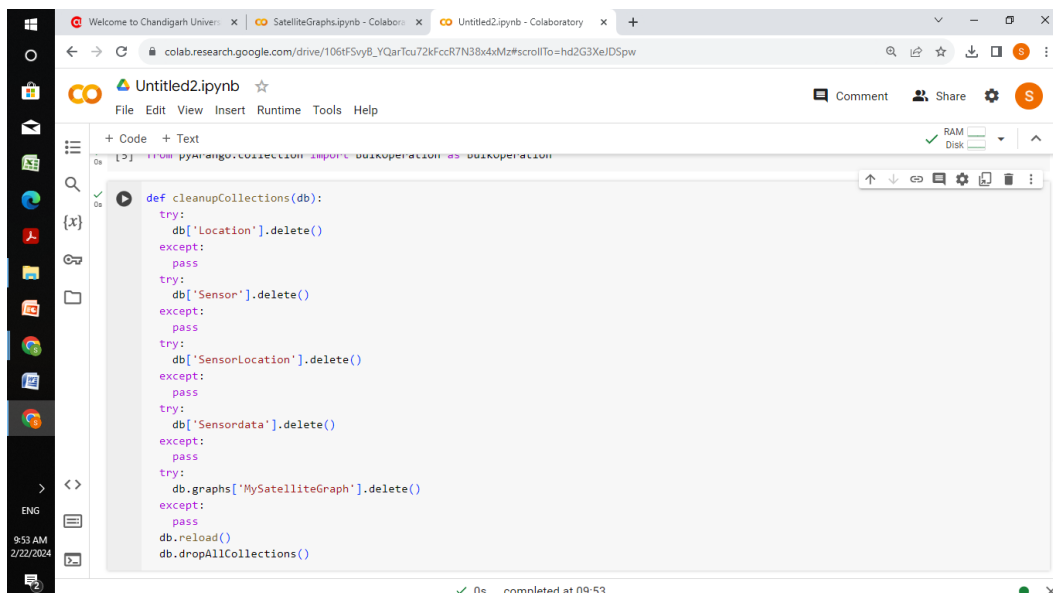
Code:-



```

Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (4.49.0)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (1.4.5)
Requirement already satisfied: numpy>=1.20 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (1.25.2)
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (23.2)
Requirement already satisfied: pillow>=6.2.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (9.4.0)
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (3.1.1)
Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (2.8.2)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil) (1.16.0)

%capture
git clone -b oasisConnector --single-branch https://github.com/cw00dw0nd/ArangoNotebooks.git
rsync -av ArangoNotebooks/. --exclude=.git
pip3 install pyarango
pip3 install "python-arango>=5.0"
  
```



```

def cleanupCollections(db):
    try:
        db['Location'].delete()
    except:
        pass
    try:
        db['Sensor'].delete()
    except:
        pass
    try:
        db['SensorLocation'].delete()
    except:
        pass
    try:
        db['Sensordata'].delete()
    except:
        pass
    try:
        db.graphs['MySatelliteGraph'].delete()
    except:
        pass
    db.reload()
    db.dropAllCollections()
  
```

**Results and discussions:-**

In this we having the accuracy of the 87% in the image category classifier which extracted the 250 images in the mat lab code because the colour of the wood texture are colourfulness and the having the low sensitivity through the colour of the wood specimens that may used the surface of the wood have divide into the various shapes of the wood textures, in the old research they study only the classifier using the gray level co-occurrence matrix in the wood textures and also having the wooden android app is the new in the research which are discussion in this research paper.

Images of the Wooden app:



**Front view of the wood texture:-**

**Conclusion:**

We already conclude that the wood texture also solve by the image category classifier and are helpful in making the wood industry in the engineering fields and help in the future jobs which are also helpful in making various types of textures which are study by the researcher and the further study was pending which are solved in the future.

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