

PyPil

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#

Eye Tracking Project

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0.2 Import Requirements

These are the required packages to make the program work, I tried to limit it to only what was found within the original pseudocode with only a few additional ones where I thought they would be best used.

```
[1]: import glob
import math
import numpy as np
import os
import pandas as pd
import pywt

from matplotlib import pyplot as plt
```

0.3 Context information

I will be trying to implement three pupillometric measures from Duchowski's papers regarding:
- 1) Index of Pupillary Activity (IPA) - 2) Low/High Index of Pupillary Activity (LHIPA) - 3) Real-Time-Index of Pupillary Activity (RIPA)

Which are all loosely based on Marshall’s Index of Cognitive Activity (ICA) from 2002.

0.4 The Index of Pupillary Activity

The paper Duchowski et al. (2018) is the basis for this and it is the first iteration of their eye-tracked measure of the requeency of pupil diameter oscillation. What this paper achieves is creating/replicating the Index of Cognitive Activity (ICA) and in general improving upon it without necessarily being copyrighted.

0.5 Version 1

This version was created before I was aware that PyWavelet could do 90% of what I needed for the code. This can be found on the Github under Unmaintained Code as Python Implementation v1. But is otherwise not up to date.

0.6 Version 2

This version is the final one that is used within the implementation and is far cleaner code because of it.

0.6.1 IPA Implementation

There are roughly six formulas that are used within the paper to calculate IPA. Below we will go through each one and how they are implemented, what their variables are, and how they connect to one another.

0.6.2 Wavelet Decomposition

All of the five formulas listed below construct the first part of our python implementation from the Duchowski et al. (2018) paper. Each of them will be noted in their explicit part in the end result but are as such not hardcode calculated in this current version of the project.

Dyadic Wavelet Function The first of many functions, this one represents the wavelet function used in the analysis and is representative of the *wavelet* argument in the function. For this specific rendition of the code, we assume that they are using the “sym16” version as that is what is used within the pseudo-code.

We will do this with the following variables: - $x(t)$: pupil diameter signal over time - $\psi(t)$: the mother wavelet function - (Symlet-16) - j : dilation parameter, integers from a set that can represent any number - k : translation parameter, integers from a set that can represent any number - $2^{j/2}$: Scaling factor w.r.t. time domain - $\psi(2^j t - k)$: Shifted and scaled wavelet function

$$\psi_{j,k}(t) = 2^{j/2} \psi(2^j t - k), \quad \text{where } j, k \in \mathbb{Z} \quad (0)$$

Integral Transformation of Wavelet Coefficients This step is far more complicated as it goes through several iterations of it within the Duchowski et al. (2018) paper, but we’ll mainly focus on the steps taht we can complete here.

(For the sake of space, repeated variables will not be given descriptions)

Decomposition of the Wavelet Analysis w.r.t. coefficients This formula is implicit to our calculation but is not directly incorporated into our code.

Variable representation: - $L^2(\mathbb{R})$: Noting that $x(t)$ is a square-integrable function - (meaning it won't become infinitely large when squared or integrated) - $\sum_{j,k=-\infty}^{\infty}$: represents the sum over all possible combinations of j and k that are integers. - $c_{j,k}$: wavelet coefficients of $\psi_{j,k}(t)$ - $x(t)$: pupil diameter signal - $\psi_{j,k}(t)$: the mother wavelet function - (Symlet-16)

$$x \in L^2(\mathbb{R}) : x(t) = \sum_{j,k=-\infty}^{\infty} c_{j,k} \psi_{j,k}(t), \quad j, k \in \mathbb{Z} \quad (1)$$

Inner Product Calculation of the Wavelet Coefficients This formula computes the wavelet coefficients by taking the inner product of the input $x(t)$ and tells us how well the function performs at different scales and translations. From this formula onward, these are all explicitly done under the hood of "pywt.wavedec" which is the PyWavelet Decomposition function.

Variable representation: - $c_{j,k}$: already noted - $\int_{-\infty}^{\infty}$: Integral of the formula, represents area under the curve - $x(t)$: already noted - $\overline{\psi_{j,k}(t)}$: We are taking the complex conjugate of our previous wavelet function. - (this ensures that the result is a real value) - dt : The integration of the variable t

$$c_{j,k} = \int_{-\infty}^{\infty} x(t) \overline{\psi_{j,k}(t)} dt, \quad x \in L^2(\mathbb{R}), \quad j, k \in \mathbb{Z} \quad (2)$$

Substitution Property for Formula (0) and Formula (2) Variables included from Formula (0): - j : dilation parameter, integers from a set that can represent any number - k : translation parameter, integers from a set that can represent any number - $2^{j/2}$: Scaling factor w.r.t. time domain - $\psi(2^j t - k)$: Shifted and scaled wavelet function

$$c_{j,k} = 2^{j/2} \int_{-\infty}^{\infty} x(t) \overline{\psi(2^j t - k)} dt, \quad x \in L^2(\mathbb{R}), \quad j, k \in \mathbb{Z} \quad (3)$$

The Wavelet Coefficients in their final form This formula gives us the similarity between the signal and the wavelet function at each scale and position.

Variable representation: - $\{W_{\psi}x(t)\}(j, k)$: The wavelet transformation of $x(t)$ using ψ - $\langle x(t), \psi_{j,k}(t) \rangle$: The inner product represented in another way from formula (3)

$$= \{W_{\psi}x(t)\}(j, k) = \langle x(t), \psi_{j,k}(t) \rangle \quad (4)$$

Modulus Maximum Detection This formula is meant to identify the sharp points of variation within the signal, we do this after we have transformed the signal and determined the coefficients found in the previous formulas.

$$|\langle x(t_0 - 1), \psi_{j,k} \rangle| \leq |\langle x(t_0), \psi_{j,k} \rangle| \geq |\langle x(t_0 + 1), \psi_{j,k} \rangle|$$

and

$$\{|\langle x(t_0), \psi_{j,k} \rangle| > |\langle x(t_0 - 1), \psi_{j,k} \rangle| \quad \text{or} \quad |\langle x(t_0), \psi_{j,k} \rangle| > |\langle x(t_0 + 1), \psi_{j,k} \rangle|\} \quad (5)$$

Base Class

```
[76]: class PyPil:
    """
    Purpose:
    This is the base class used to calculate three types of formulas
    relating to pupil measurement with subclasses for each of the specific
    calculations. Since each of these calculations serve as an extension
    of the previous one and as such is listed in the corresponding order
    within the class and the only parts that are in this one are the items
    shared by all three.

    The three papers and calculations in question and their subclass name:
    IPA:
    1) Index of Pupillary Activity (IPA) from Duchowski et al. (2018)

    LHIPA:
    2) Low/High Index of Pupillary Activity (LHIPA) from Duchowski et al. (2020)

    RIPA:
    3) Real-Time-Index of Pupillary Activity (RIPA) from Jayawardena et al.
    ↪ (2022)

    ...

    Attributes:
    pupil_data : list
        The pupil diameter measurements in pixels
    wavelet : str
        The wavelet chosen for the decomposition (default: sym16)
    periodization : str
        The periodization chosen for the decomposition (default: per)
    level : int
        The level of granularity done within the decomposition (default: 2)

    ...

    Methods:
    calculate_timestamps()
        This returns the difference from the first and last point of measure.

    compute_modmax(cD2)
```

```

compute_threshold(detect, mode="hard")

calculate_ipa(cD2t)

"""
def __init__(self, pupil_data, wavelet="sym16", periodization="per", level_
↪ 2, specification="world_timestamp"):
    try:
        import numpy as np
        import math
        import pywt
    except ImportError as e:
        raise ImportError("A required library is not imported, verify that_
↪ numpy, math, and pywt are imported.")

    self.pupil_data = pupil_data
    self.pupil_data_diam = list(pupil_data['diameter'])
    self.pupil_data_time_WI = list(pupil_data['world_index'])
    self.pupil_data_time_WT = list(pupil_data['world_timestamp'])
    self.wavelet = wavelet
    self.periodization = periodization
    self.level = level
    self.specification = specification

# NOTE: This one is changed quite a lot from the original version in the
# psuedocode. This is because it uses timestamp compared to what the data
# we have.

# CONCERN: The dataframes did not have an "actual" timestamp option, so
# I had to make do with what I had and the "world_index" was the closest
# to it.

# CONCERN 2: The Lindlbauer paper wants us to use a 60 row window to_
↪ calculate
# the IPA and then to shift it from there, this is far easier said than_
↪ done.
def calculate_timestamps(self):
    """
    Purpose:
    This calculates the difference in time from the last point and the_
↪ first point.

    ...

    Features:

```

No input features

...

Output:

*This will output a numeric value that is the difference in time between
→ the two points.*

"""

```
tt = self.pupil_data[self.specification].iloc[-1] - self.  
→pupil_data[self.specification].iloc[0]  
#         tt = self.pupil_data[self.specification].idxmax() - self.  
→pupil_data[self.specification].idxmin()  
  
#         try:  
#             tt = self.pupil_data_time[-1] - self.pupil_data_time[0]  
#         except:  
#             tt = pupil_data.shape[0]  
#             tt = self.pupil_data.shape[0]  
#             print("\nTimestamp Calculation:")  
#             print("tt:", tt)  
return tt
```

```
def compute_modmax(self, d):
```

"""

Purpose:

*This will find where the modulus is grater than both of its
neighbours.*

...

Features:

cD2 : array

This is the normalization of Detail coefficients at level 2

...

Output:

detect : array

"""

```
m = [0.0] * len(d)  
for i in range(len(d)):  
    m[i] = math.fabs(d[i])  
  
t = [0.0] * len(d)
```

```

for i in range(len(d)):
    ll = m[i-1] if i >= 1 else m[i]
    oo = m[i]
    rr = m[i+1] if i < len(d)-2 else m[i]

    if (ll <= oo and oo >= rr) and (ll < oo or oo > rr):
        t[i] = math.sqrt(d[i]**2)
    else:
        t[i] = 0.0
#     print("\nModmax Calculation:")
#     print(detect)
return t

# CONCERN: whether we do hard or soft thresholding, everything
# turns to 0 with this for every single dataframe we put inside.
# I suspect this is a problem with my calculations.
def compute_threshold(self, detect, mode="hard"):
    """
    Purpose:

    ...

    Features:

    ...

    Output:

    """
    thresh = np.std(detect) * math.sqrt(2.0*np.log2(len(detect)))
    cD2t = pywt.threshold(detect,thresh,mode)
#     print("\nCalculate Threshold:")
#     print(cD2t)
    return cD2t

def calculate_ipa(self, cD2t):
    """
    Purpose:

    ...

    Features:

    ...

```

Output:

```
"""
ctr = 0
for i in range(len(cD2t)):
    if math.fabs(cD2t[i]) > 0:
        ctr += 1
ipa = float(ctr)/ self.calculate_timestamps()
#     print("\nIPA:")
#     print(ipa)
return ipa
```

IPA Subclass Please note that after several revisions, these parts were to be partitioned into only the subclass that is below as LHIPA and RIPA were going to use part of the original IPA code but not all of it.

```
[77]: class IPA(PyPil):
    """
    Purpose:
    This class calculates the Index of Pupillary Activity (IPA) based on pupil_
    ↪measurements.

    ...

    Attributes:
    pupil_data : list
        The pupil diameter measurements in pixels
    wavelet : str
        The wavelet chosen for the decomposition (default: sym16)
    periodization : str
        The periodization chosen for the decomposition (default: per)
    level : int
        The level of granularity done within the decomposition (default: 2)

    ...

    Methods:
    wavelet_decomposition()
        This returns the coefficients of the wavelet decomposition.

    normalize_coefficients(cA2, cD2, cD1, level)
        This normalizes the three coefficients w.r.t. the level deteremined
        at the start of the class.

    """
```



```

def __init__(self, pupil_data, wavelet="sym16", periodization="per",
    ↪level=2, specification="world_timestamp"):
    super().__init__(pupil_data, wavelet, periodization, level,
    ↪specification)

    # Perform IPA calculation upon initialization
    cA2, cD2, cD1 = self.ipa_wavelet_decomposition()
    cA2[:,], cD2[:,], cD1[:,] = self.ipa_normalize_coefficients(cA2, cD2, cD1,
    ↪self.level)
    detect = self.compute_modmax(cD2[:,])
    cD2t = self.compute_threshold(detect)
    self.ipa = self.calculate_ipa(cD2t)
    print(f"IPA Calculation: {self.ipa}")

def ipa_wavelet_decomposition(self):
    """
    Purpose:
    This takes formula (0) to (4) from the paper and does it all with very
    ↪minimal
    code. It takes sin the pupil diameter, uses sym16, per, and level 2 as
    ↪its inputs
    as they were listed in the original paper.

    ...

    Features:
    No input features

    ...

    Output:
    cA2 : array
        Approximation coefficients at level 2. These are coarse-grained
        details of the signal.
    cD2 : array
        Detail coefficients at level 2. These are high freq components.
    cD1 : array
        Detail coefficients at level 1. These are high freq components.

    """
    # This was created to look like the one on the pseudocode in the paper
    cA2, cD2, cD1 = pywt.wavedec(self.pupil_data_diam, self.wavelet,
    ↪mode=self.periodization, level=self.level)
    #         print("Wavelet Decomposition:")
    #         print("\n", "cA2:", cA2)
    #         print("\n", "cD2:", cD2)

```

```

#         print("\n", "cD1:", cD1)
return cA2, cD2, cD1

def ipa_normalize_coefficients(self, cA2, cD2, cD1, level):
    """
    Purpose:
    This will normalize the coefficients for each one we created.

    ...

    Features:
    cA2 : array
        Approximation coefficients at level 2. These are coarse-grained
        details of the signal.
    cD2 : array
        Detail coefficients at level 2. These are high freq components.
    cD1 : array
        Detail coefficients at level 1. These are high freq components.
    level : int
        The level of granularity done within the decomposition (default: 2)

    ...

    Output:
    cA2[:] : array
        This is the normalization of Approximation coefficients at level 2
    cD2[:] : array
        This is the normalization of Detail coefficients at level 2
    cD1[:] : array
        This is the normalization of Detail coefficients at level 1

    """
    # normalize by 1/2j, j = 2 for 2-level DWT
    # This is now changed to account for if we change the level
    cA2[:] = [x / math.sqrt(2.0 * level) for x in cA2]
    cD2[:] = [x / math.sqrt(2.0 * level) for x in cD2]
    cD1[:] = [x / math.sqrt(1.0 * level) for x in cD1]
    return cA2[:], cD2[:], cD1[:]

```

0.6.3 The Low/High Index of Pupillary Activity

This is the only version of the code that we'll have available for the LHIPA implementation. It is primarily utilizing the class PyPil to avoid reusing unchanged part of the code and the differences in formulas will be noted below and within the code itself.

Low Freq / High Freq Ratio This part is the larger difference within the code is the LF/HF ratio. This is meant to characterize the autonomic balance of the frequencies. We do this by

substituting j with $\frac{1}{2} \log_2(n)$ and making sure to multiply the denominator by 2 to keep it balanced.

$$\frac{(x_{\psi}^{\frac{1}{2} \log_2(n)}(t))}{x_{\psi}^1(2^{\frac{1}{2} \log_2(n)}t)} \quad (7)$$

We then plug this all into the very similar thresholding (but change its mode) and we get a brand new type of IPA calculation.

LHIPA Subclass

```
[78]: class LHIPA(PyPil):
    """
    Purpose:
    This class calculates the Low/High Index of Pupillary Activity (LHIPA)
    based on pupil measurements.

    ...

    Attributes:
    pupil_data : list
        The pupil diameter measurements in pixels
    wavelet : str
        The wavelet chosen for the decomposition (default: sym16)
    periodization : str
        The periodization chosen for the decomposition (default: per)
    level : int
        The level of granularity done within the decomposition (default: 2)
    ...

    Methods:
    wavelet_decomposition()
        This returns the coefficients of the wavelet decomposition.

    normalize_coefficients(cA2, cD2, cD1, level)
        This normalizes the three coefficients w.r.t. the level determined
        at the start of the class.

    """
    def __init__(self, pupil_data, wavelet="sym16", periodization="per",
    level=2, specification="world_timestamp"):
        super().__init__(pupil_data, wavelet, periodization, level,
    specification)

    # Perform LHIPA calculation upon initialization
    self.max_level = self.lhipa_wavelet_decomposition(self.pupil_data_diam)
```

```

        self.hif, self.lof = 1, int(self.max_level/2)
        cD_H, cD_L = self.lhipa_normalize_coefficients(self.pupil_data_diam,
↪self.max_level)
        cD_LH = self.lhipa_ratio(cD_H[:, cD_L[:]])
        cD_LHm = self.compute_modmax(cD_LH)
        cD_LHt = self.compute_threshold(cD_LHm, mode="less")
        self.lhipa = self.calculate_ipa(cD_LHt)
        print(f"LHIPA Calculation: {self.lhipa}")

def lhipa_wavelet_decomposition(self, d):
    """
    Purpose:

    ...

    Features:

    ...

    Output:

    """
    w = pywt.Wavelet('sym16')
    self.max_level = pywt.dwt_max_level(len(d), filter_len=w.dec_len)
#     print("\n", "Max Level:")
#     print("\n", max_level)
    return self.max_level

def lhipa_normalize_coefficients(self, d, max_level):
    """
    Purpose:

    ...

    Features:

    ...

    Output:

    """
    cD_H = pywt.downcoef('d', self.pupil_data_diam, 'sym16', 'per',
↪level=self.hif)

```

```

        cD_L = pywt.downcoef('d',self.pupil_data_diam, 'sym16', 'per',
↪level=self.lof)
        cD_H[:] = [x / math.sqrt(2**self.hif) for x in cD_H]
        cD_L[:] = [x / math.sqrt(2**self.lof) for x in cD_L]
        return cD_H[:], cD_L[:]

def lhipa_ratio(self, cD_H, cD_L):
    """
    Purpose:

    ...

    Features:

    ...

    Output:

    """
    cD_LH = cD_L.copy()
    for i in range(len(cD_L)):
        den = cD_H[((2**self.lof)//(2**self.hif))*i]
        if den != 0:
            cD_LH[i] = cD_L[i] / den
        else:
            cD_LH[i] = cD_L[i] / 0.00000000001
    return cD_LH

```

0.6.4 Toward a Real-Time Index of Pupillary Activity

Unlike the other two, the accessibility of the code or even pseudocode for RIPA is very limited and changes a lot of the fundamental parts of it. After doing some additional research on the content of the implementation, here is how it would roughly be done if we had the time and ability to ask some questions regarding the code they used.

The Differences There are many large differences between RIPA and the other two versions of the implementation LH/IPA. Here are some of the most notable parts:

Real Time vs Offline Fundamentally RIPA is meant to take on “Real-Time” whereas the original IPA and Low/High IPA take in data offline.

Wavelet Analysis vs Savitzky-Golay filtering LH/IPA use Dyadic/Discrete Wavelet Analysis and other scaling/translation transformations of the data, but RIPA just uses Savitzky-Golay filtering on the pupil diameter which allows for parallel computation of the low- and high-frequency

responses. As noted in the paper by Jayawardena et al. (2022), this also in turn reduces the total complexity of the model as well.

Data Storage vs Ring Buffers Effectively a Ring Buffer is a more efficient method for managing data when there is a fixed size to it. This is especially useful in Real Time applications because it allows for constant access to the data and FIFO behaviour for the items within it. There is definitely more to this, but my limited knowledge on Ring Buffers tell me that they are far better suited to RT data which is why it was used over the original methodology.

Normalization Methods The normalization process is a bit similar to that of LHIPA, but there is also the inclusion of a length buffer and inversion to make it directly proportional to the pupil diameter.

0.6.5 Theoretical Implementation

Given we don't have the ability to do this in Real-Time and the pseudocode is not as easily readable/translatable into a class, here is what we would do given the option to implement it:

1. We would use the Python library `collections.deque` to create a ring buffer
2. We would then use the Python library `scipy.signal` for Savitzky-Golay filtering and apply this to the stored data in our `collections.deque`.
3. We then use a similar normalization process to the LHIPA on this data but also include the length buffer and inversion to get the low- and high-frequency responses.
4. We then apply the existing Modulus Maxima that we previously were using.
5. We then calculate the RIPA by counting when the ratio is outside our determined bounds.

0.6.6 Applied to the Lindlbauer Datasets

We're going to use `glob.glob` again from the PyPil Dataframe Processor and iterate through the two groups of folders that the class created for us. Then we'll get both the IPA and LHIPA for each one and make some visualizations out of them.

In the public Github version of this, there will be a directory that is noted after the `os.chdir(r"...")`, but for the sake of not showing my folder grouping I omitted it in the repo.

```
[79]: # This is the version where the ONLY thing we did to the data was remove NaNs/  
      ↪Nulls  
      # and we did nothing else to it.  
      os.chdir(r"C:\Users\cdhye\Desktop\Semester 5, 2023\Eye Tracking\Project\New_  
      ↪Project Content\Dataframes\trimmed_files")  
      trim_csv_files = glob.glob("*.csv")  
      trim_csv_files
```

```
[79]: ['study01_p02-pupil_positions-trimmed-02_trimmed.csv',  
      'study01_p02-pupil_positions-trimmed_trimmed.csv',  
      'study01_p02-pupil_positions_trimmed.csv',  
      'study01_p03-pupil_positions_trimmed.csv',  
      'study01_p04-pupil_positions_trimmed.csv',  
      'study01_p05-pupil_positions_trimmed.csv',
```

```
'study01_p06-pupil_positions_trimmed.csv',  
'study02_p01-pupil_positions_trimmed.csv',  
'study03_pupil_positions_trimmed.csv']
```

Over the Entire Dataset Meaning that there is a single IPA/LHIPA for the entire timeframe (not the goal, just used as a benchmark)

```
[80]: ipa_list = []  
      lhipa_list = []  
  
      for csv in trim_csv_files:  
          print(f"\nName of File: {csv}")  
  
          df = pd.read_csv(csv)  
          ipa = IPA(df)  
          lhipa = LHIPA(df)  
          ipa_list.append(ipa.ipa)  
          lhipa_list.append(lhipa.lhipa)  
          print("\n")
```

```
Name of File: study01_p02-pupil_positions-trimmed-02_trimmed.csv  
IPA Calculation: 0.11701161691331395  
LHIPA Calculation: 2.4572439551795933
```

```
Name of File: study01_p02-pupil_positions-trimmed_trimmed.csv  
IPA Calculation: 0.07254175767359543  
LHIPA Calculation: 2.42685152944392
```

```
Name of File: study01_p02-pupil_positions_trimmed.csv  
IPA Calculation: 0.045451206856805586  
LHIPA Calculation: 1.1799133300026732
```

```
Name of File: study01_p03-pupil_positions_trimmed.csv  
IPA Calculation: 0.14050253926406184  
LHIPA Calculation: 1.1513909386444547
```

```
Name of File: study01_p04-pupil_positions_trimmed.csv  
IPA Calculation: 0.007402192973690859
```

LHIPA Calculation: 1.1491904591655058

Name of File: study01_p05-pupil_positions_trimmed.csv

IPA Calculation: 0.1445404835657436

LHIPA Calculation: 1.2137694453277188

Name of File: study01_p06-pupil_positions_trimmed.csv

IPA Calculation: 0.08332648204480758

LHIPA Calculation: 1.2054564402482164

Name of File: study02_p01-pupil_positions_trimmed.csv

IPA Calculation: 0.10406777271787654

LHIPA Calculation: 1.1754927963814692

Name of File: study03_pupil_positions_trimmed.csv

IPA Calculation: 0.1211064283292003

LHIPA Calculation: 4.965363561497212

```
[81]: # This is the version where we assumed that each data point was measured more
      ↪ than one time
      # and we are averaging those measurements out.

      # os.chdir(r"C:\Users\cdhye\Desktop\Semester 5, 2023\Eye Tracking\Project\New
      ↪ Project Content\Dataframes\grouped_trimmed_folder")
      # grouped_trim_csv_files = glob.glob("*.csv")
      # grouped_trim_csv_files
```

```
[82]: # g_ipa_list = []
      # g_lhipa_list = []

      # for csv in grouped_trim_csv_files:
      #     print(f"\nName of File: {csv}")

      #     df = pd.read_csv(csv)
      #     ipa = IPA(df, specification="world_index")
      #     lhipa = LHIPa(df, specification="world_index")
      #     g_ipa_list.append(ipa.ipa)
```



```
# g_lhipa_list.append(lhipa.lhipa)
# print("\n")
```

There is at least a difference of 85 seconds between the first point and the last point, the catch is that this sliding window that the authors of Lindlbauer discuss is quite difficult to get done correctly.

```
[83]: df = pd.read_csv('study01_p02-pupil_positions-trimmed-02_trimmed.csv')
```

```
[84]: df.head(5), df.tail(5)
```

```
[84]: (  world_timestamp  world_index  diameter
0    260229.466438           2         0.0
1    260229.474838           2         0.0
2    260229.483238           2         0.0
3    260229.491638           3         0.0
4    260229.500038           3         0.0,
      world_timestamp  world_index  diameter
9994    260314.894438        2551    42.561084
9995    260314.902838        2551    42.172867
9996    260314.911238        2552    42.268218
9997    260314.919638        2552    41.973641
9998    260314.928038        2552    41.848515)
```

```
[65]: df['world_timestamp'].iloc[-1] - df['world_timestamp'].iloc[0]
```

```
[65]: 85.461600000000964
```

It took some massive brute forcing, but there is indeed a 60 second difference only after we get to index 7001 of 9999. Which means that we don't have a very large window.

```
[103]: df['world_timestamp'].iloc[7001] - df['world_timestamp'].iloc[0]
```

```
[103]: 60.001199999999879
```

```
[ ]: ipa_list = []
      lhipa_list = []

      for csv in trim_csv_files:
          print(f"\nName of File: {csv}")

          df = pd.read_csv(csv)
          ipa = IPA(df)
          lhipa = LHIPA(df)
          ipa_list.append(ipa.ipa)
          lhipa_list.append(lhipa.lhipa)
          print("\n")
```

```
[108]: def shifting_window_processing(df, window_size=7000):
        ipa_list = []
        lhipa_list = []
        # Iterate through the shifting window
        for i in range(len(df) - window_size + 1):
            subset = df.iloc[i:i+window_size]
            ipa = IPA(subset)
            lhipa = LHIPA(subset)
            ipa_list.append(ipa.ipa)
            lhipa_list.append(lhipa.lhipa)
            print("\n")
        return ipa_list, lhipa_list
```

```
[111]: ipa_list, lhipa_list = shifting_window_processing(df)
```

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 LHIPA Calculation: 4.8345903268193835

IPA Calculation: 0.21672301465041893
 LHIPA Calculation: 4.701222317801395

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IPA Calculation: 0.2841630895548233
LHIPA Calculation: 4.529893957021006

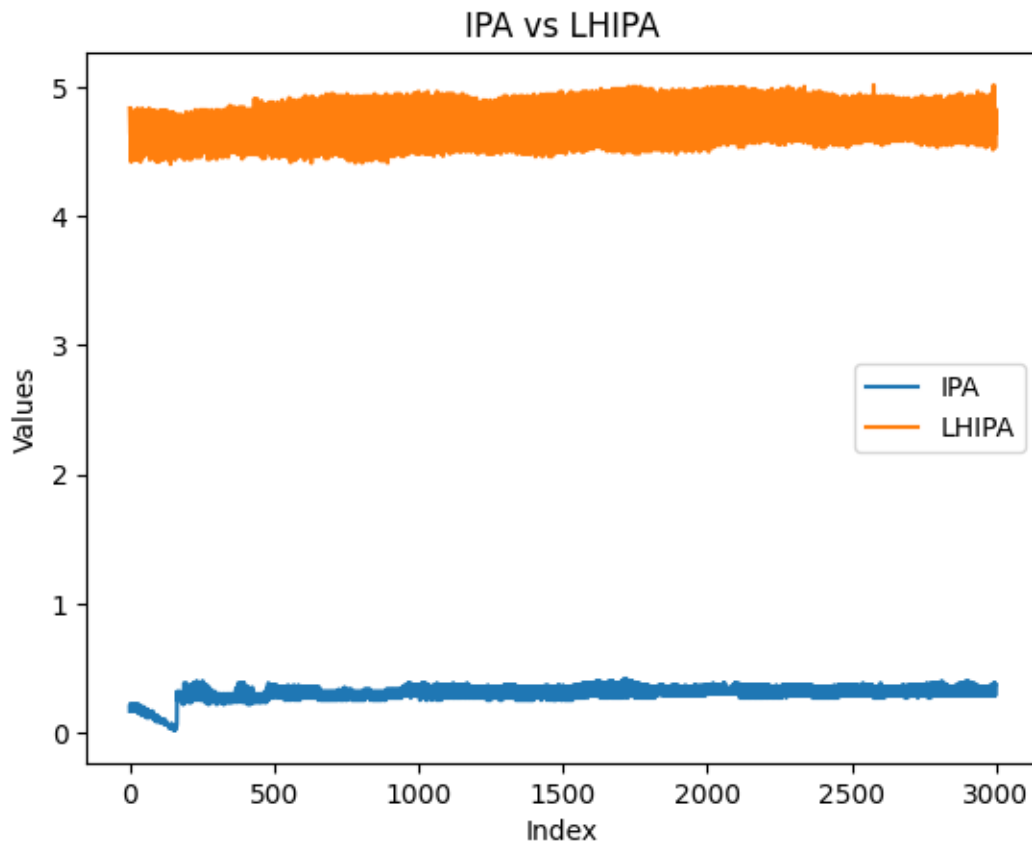
IPA Calculation: 0.3510249929794876
LHIPA Calculation: 4.830772522431996

IPA Calculation: 0.36774046883565364
LHIPA Calculation: 4.646902288014169

```
[113]: index = list(range(len(ipa_list)))  
  
# Plot the lines  
plt.plot(index, ipa_list, label='IPA')  
plt.plot(index, lhipa_list, label='LHIPA')
```

```
# Add labels and legend
plt.xlabel('Index')
plt.ylabel('Values')
plt.title('IPA vs LHIPA')
plt.legend()

# Show plot
plt.show()
```



```
[ ]:
```

```
[1]: !pip freeze > requirements.txt
```