

Sprawozdanie Numer 2

Autor : Kamil Szóstak

Temat : Próbkowanie i kwantyzacja

Kod Programu :

```
import math

import numpy as np

import matplotlib.pyplot as plt

import array


a=4;b=5;c=4;

xcords = [] ; ycords = [] ; bob = [] ; aoa = []

xcords1 = []

x=0

while x <= a:

    xcords.append(x)

    funkcja = 1 * math.sin(2 * math.pi * b * x + c*math.pi)

    aa=math.floor((funkcja*(math.pow(2,15)-1)+math.pow(2,15)-1))

    ycords.append(funkcja)

    aoa.append(aa)

    x=x+0.006

x=round(x,4)
```

```
x=0

while x <= a:

    xcords1.append(x)

    funkcja = 1 * math.sin(2 * math.pi * b * x + c*math.pi)

    bb=math.floor((funkcja*(math.pow(2,7)-1)+math.pow(2,7)-1))

    bob.append(bb)

    x=x+0.012

    x=round(x,4)

fig, axs=plt.subplots(3)

fig.suptitle('Vertically stacked subplots')

axs[0].plot(xcords,ycords,'bo')

axs[1].plot(xcords,aoa,'bo')

axs[2].plot(xcords1,bob,'bo')

plt.show()
```

Zdjecia Wyników :

Figure 1

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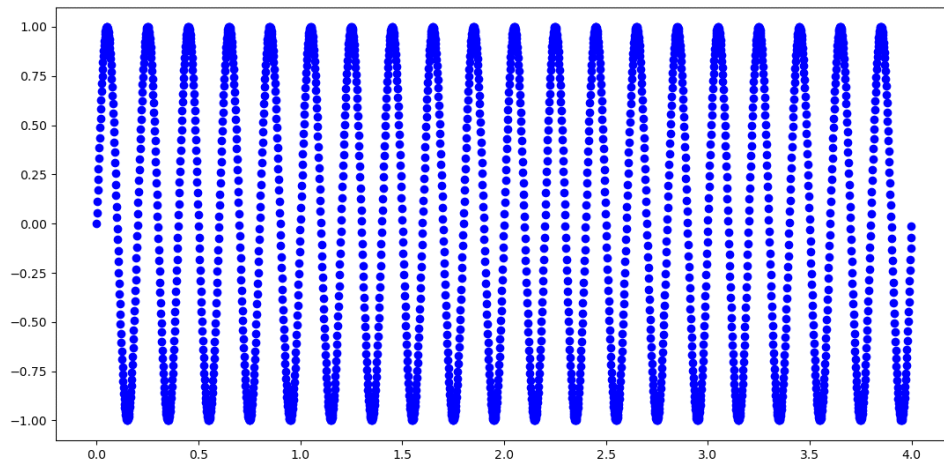


Figure 1

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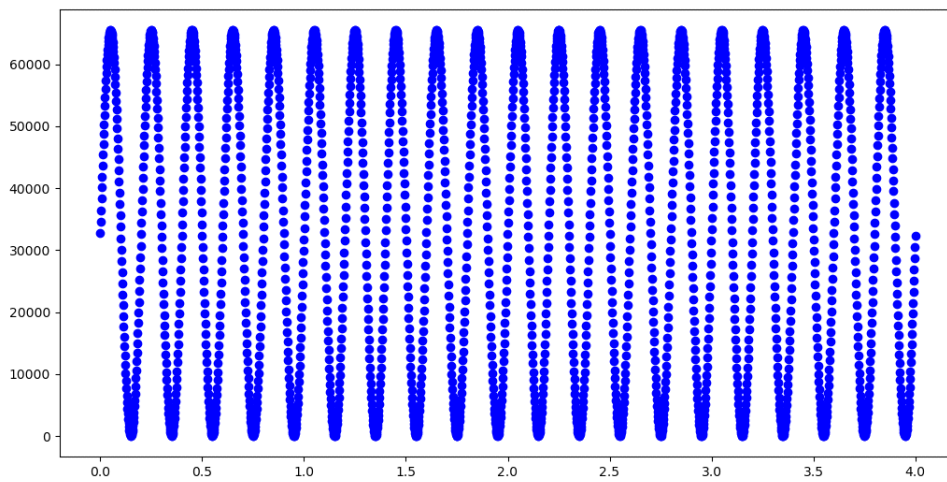


Figure 1

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